Full wwPDB EM Validation Report

Feb 19, 2026 – 10:53 AM EST

PDB ID	:	9YGU / pdb_00009ygu
EMDB ID	:	EMD-72942
Title	:	Flagella filament structure in H. pylori composed of flagellin FlaA
Authors	:	Kumar, R.; Yu, H.; Tachiyama, S.; Liu, J.
Deposited on	:	2025-09-29
Resolution	:	2.88 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 (i) symbol.

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

The following versions of software and data (see references (1)) were used in the production of this report:

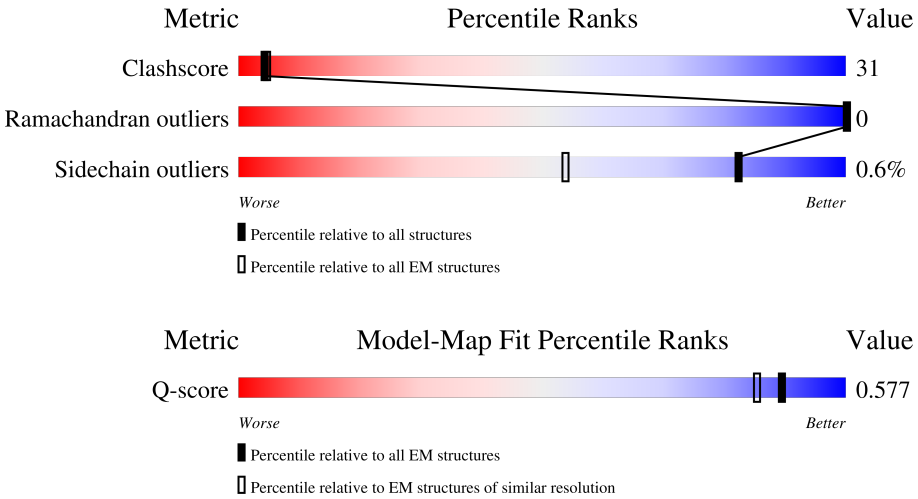
EMDB validation analysis	:	0.0.1.dev131
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive 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 2.88 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	12111 (2.38 - 3.38)

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	A7	508	55% 44%
1	BJ	508	53% 47%
1	CT	508	55% 45%
1	DN	508	55% 44%

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Mol	Chain	Length	Quality of chain
1	EX	508	53% 47%
1	FB	508	55% 45%
1	GQ	508	54% 45%
1	HL	508	53% 47%
1	I3	508	56% 43%
1	JD	508	55% 45%
1	KE	508	53% 47%
1	LF	508	55% 45%
1	MO	508	55% 45%
1	NI	508	53% 47%
1	OA	508	57% 43%
1	PU	508	55% 45%
1	Q2	508	53% 47%
1	R4	508	55% 44%
1	S5	508	55% 45%
1	TP	508	53% 47%
1	UH	508	57% 43%
1	VR	508	55% 45%
1	WG	508	53% 47%
1	XM	508	55% 44%
1	Y1	508	54% 46%
1	Z9	508	53% 47%
1	aW	508	56% 44%
1	bS	508	55% 45%
1	cV	508	52% 47%

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Mol	Chain	Length	Quality of chain
1	dC	508	
1	e8	508	
1	fK	508	
1	g6	508	

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	A7	605	X	-	-	-
2	P8E	BJ	605	X	-	-	-
2	P8E	CT	605	X	-	-	-
2	P8E	DN	605	X	-	-	-
2	P8E	EX	605	X	-	-	-
2	P8E	FB	605	X	-	-	-
2	P8E	GQ	605	X	-	-	-
2	P8E	HL	605	X	-	-	-
2	P8E	I3	605	X	-	-	-
2	P8E	JD	605	X	-	-	-
2	P8E	KE	605	X	-	-	-
2	P8E	LF	605	X	-	-	-
2	P8E	MO	605	X	-	-	-
2	P8E	NI	605	X	-	-	-
2	P8E	OA	605	X	-	-	-
2	P8E	PU	605	X	-	-	-
2	P8E	Q2	605	X	-	-	-
2	P8E	R4	605	X	-	-	-
2	P8E	S5	605	X	-	-	-
2	P8E	TP	605	X	-	-	-
2	P8E	UH	605	X	-	-	-
2	P8E	VR	605	X	-	-	-
2	P8E	WG	605	X	-	-	-
2	P8E	XM	605	X	-	-	-
2	P8E	Y1	605	X	-	-	-
2	P8E	Z9	605	X	-	-	-
2	P8E	aW	605	X	-	-	-
2	P8E	bS	605	X	-	-	-
2	P8E	cV	605	X	-	-	-
2	P8E	dC	605	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	P8E	e8	605	X	-	-	-
2	P8E	fK	605	X	-	-	-
2	P8E	g6	605	X	-	-	-

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 129921 atoms, of which 3696 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.

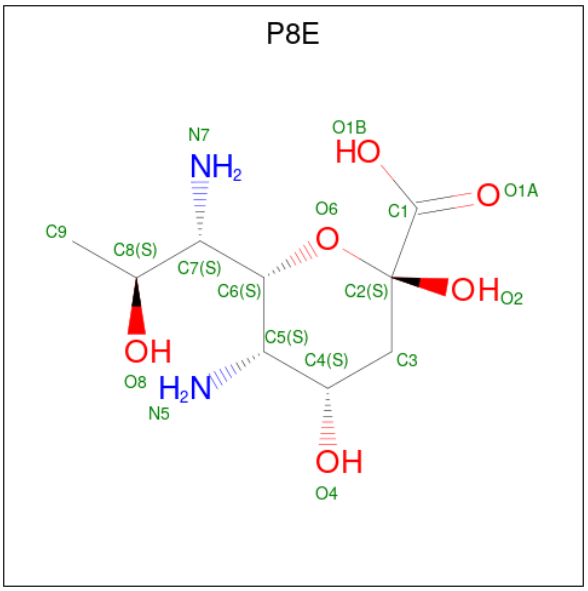
Mol	Chain	Residues	Atoms					AltConf	Trace
1	Y1	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	Q2	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	I3	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	R4	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	S5	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	g6	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	A7	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	e8	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	Z9	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	OA	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	FB	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	dC	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	JD	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	KE	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	LF	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	WG	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	UH	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	NI	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	BJ	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	fK	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	HL	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	XM	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	DN	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	MO	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	TP	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	GQ	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	VR	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	bS	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	CT	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	PU	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	cV	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	aW	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		
1	EX	508	Total	C	N	O	S	0	0
			3713	2256	669	778	10		

- 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	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Y1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Q2	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	I3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	R4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	S5	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	g6	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	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	e8	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	Z9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	OA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	FB	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	dC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	JD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	KE	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	LF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	WG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	UH	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	NI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	BJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	fK	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	HL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	XM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	DN	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	MO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	TP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	GQ	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	VR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	bS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	CT	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	PU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	cV	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	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	EX	1	Total	C	H	N	O	0
			32	9	16	2	5	

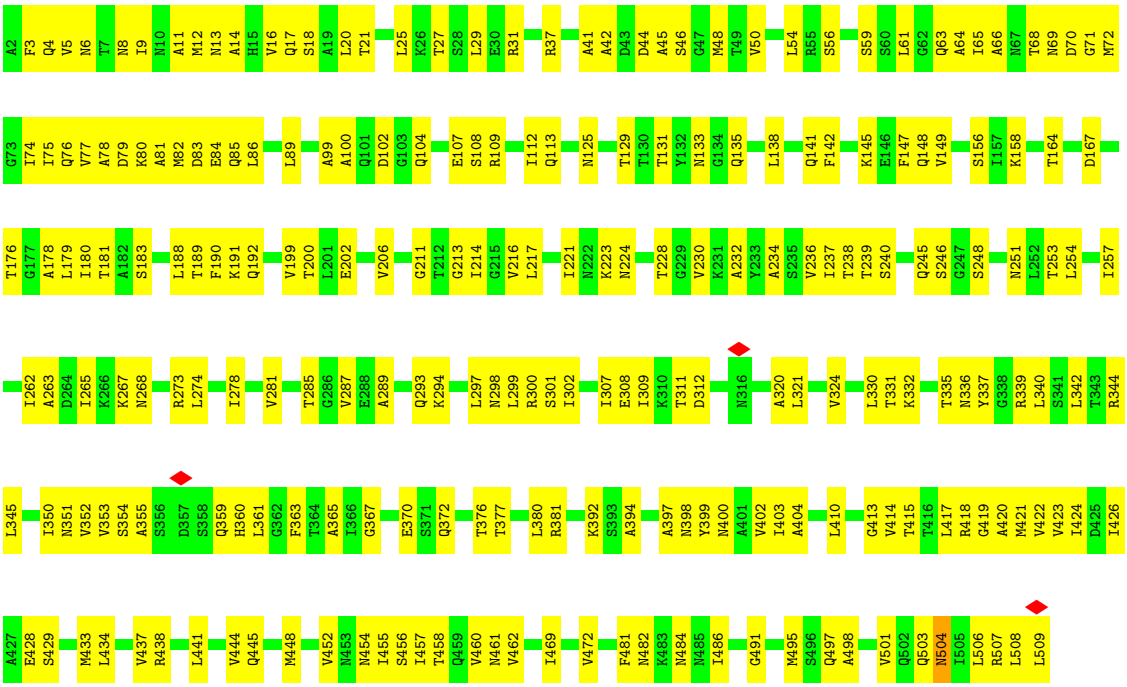
3 Residue-property plots (i)

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 Y1:

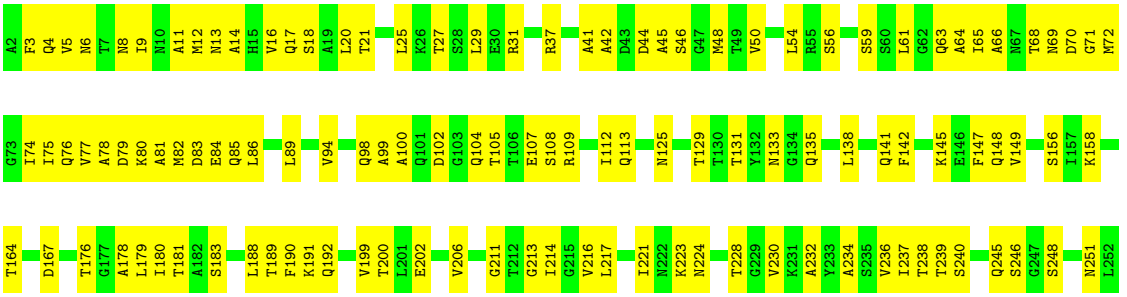




• Molecule 1: Flagellin

Chain Q2:



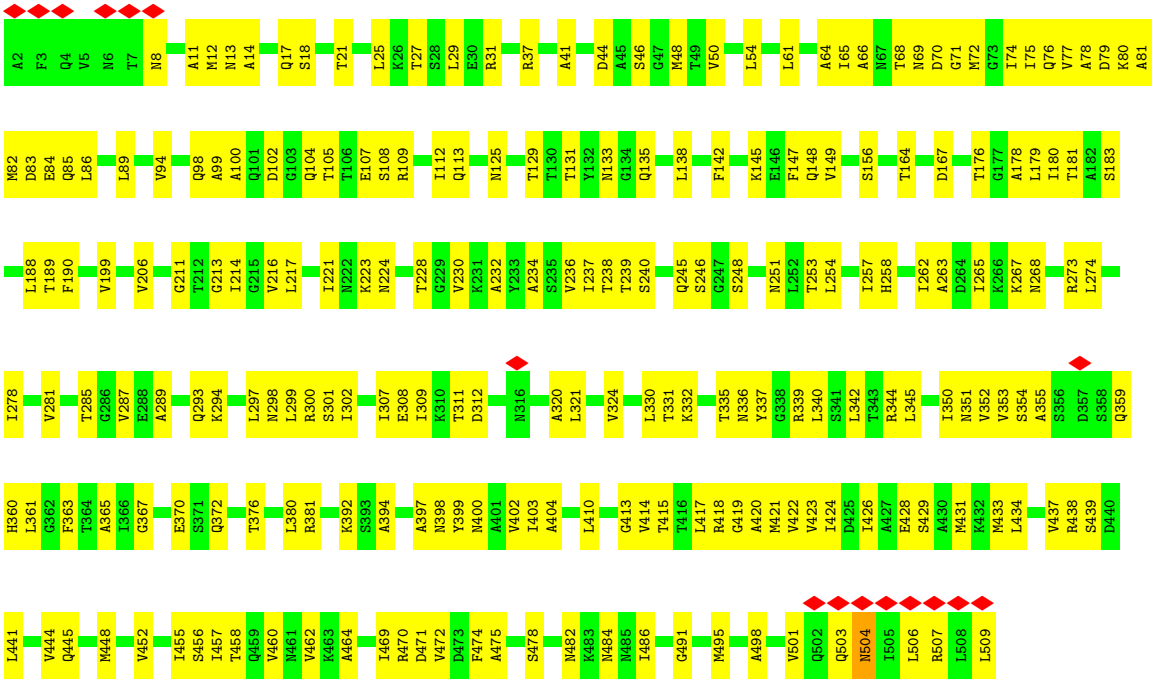




• Molecule 1: Flagellin

Chain I3:

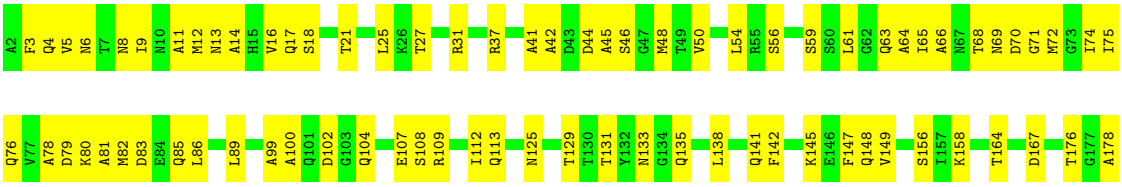


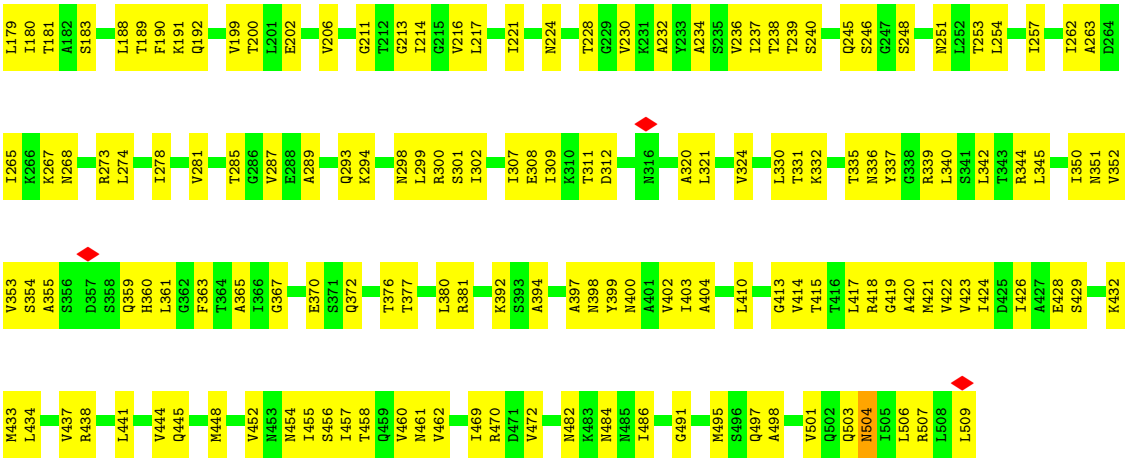


• Molecule 1: Flagellin

Chain R4:



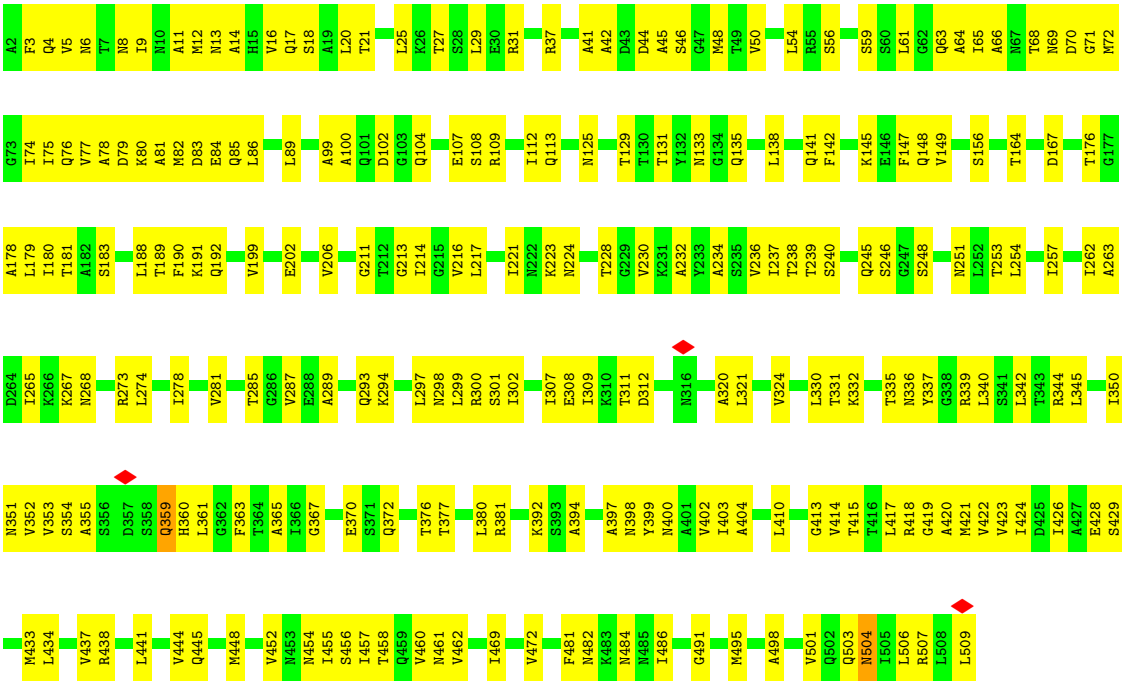




• Molecule 1: Flagellin

Chain S5:

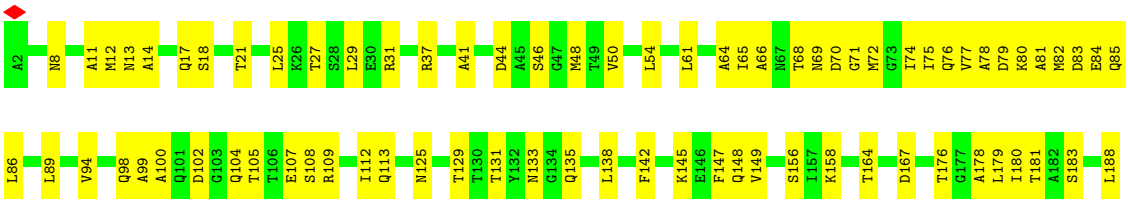


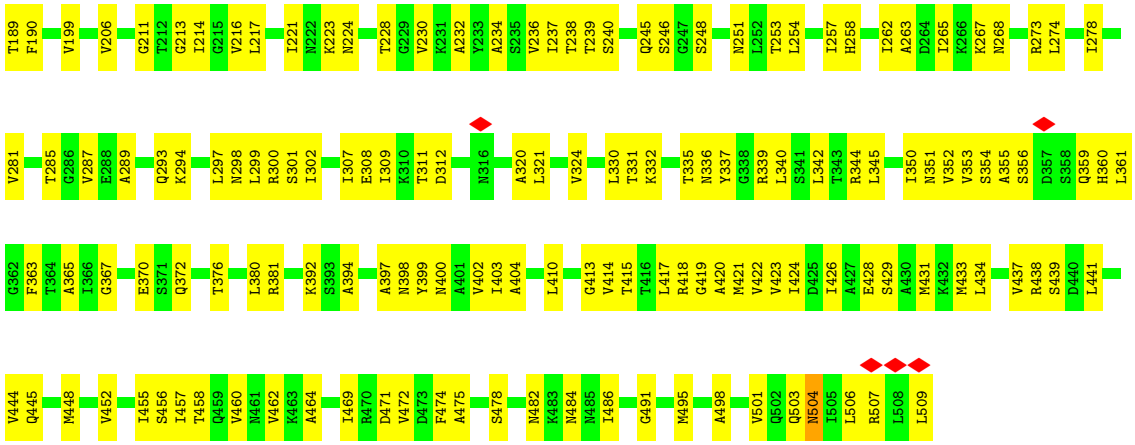


• Molecule 1: Flagellin

Chain g6:



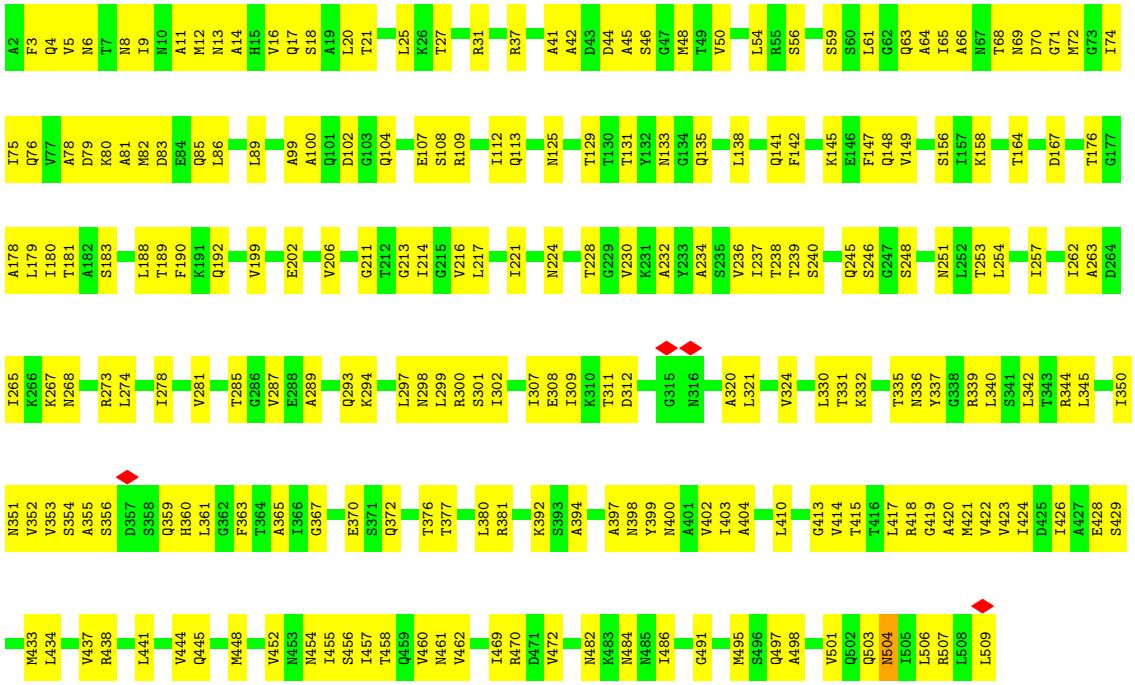




• Molecule 1: Flagellin

Chain A7:

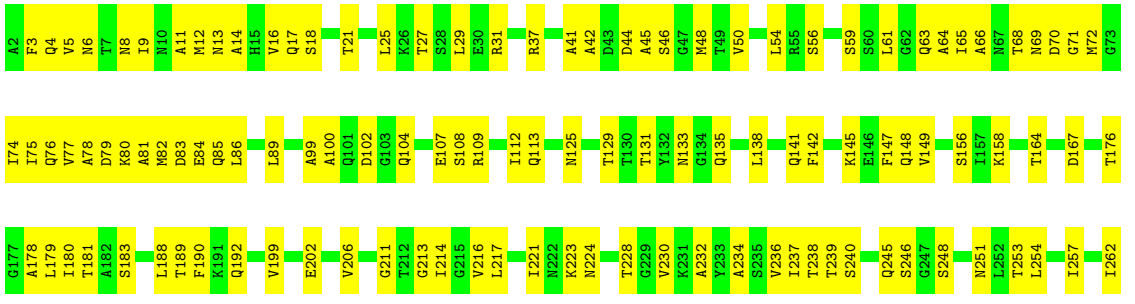


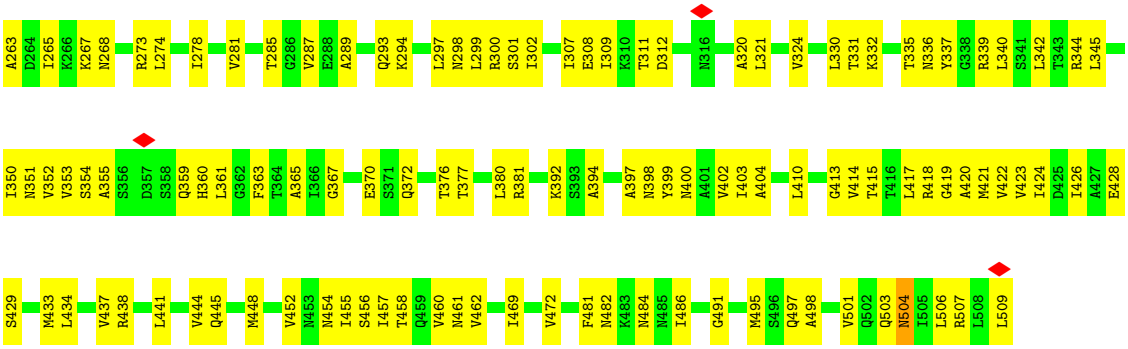


• Molecule 1: Flagellin

Chain e8:



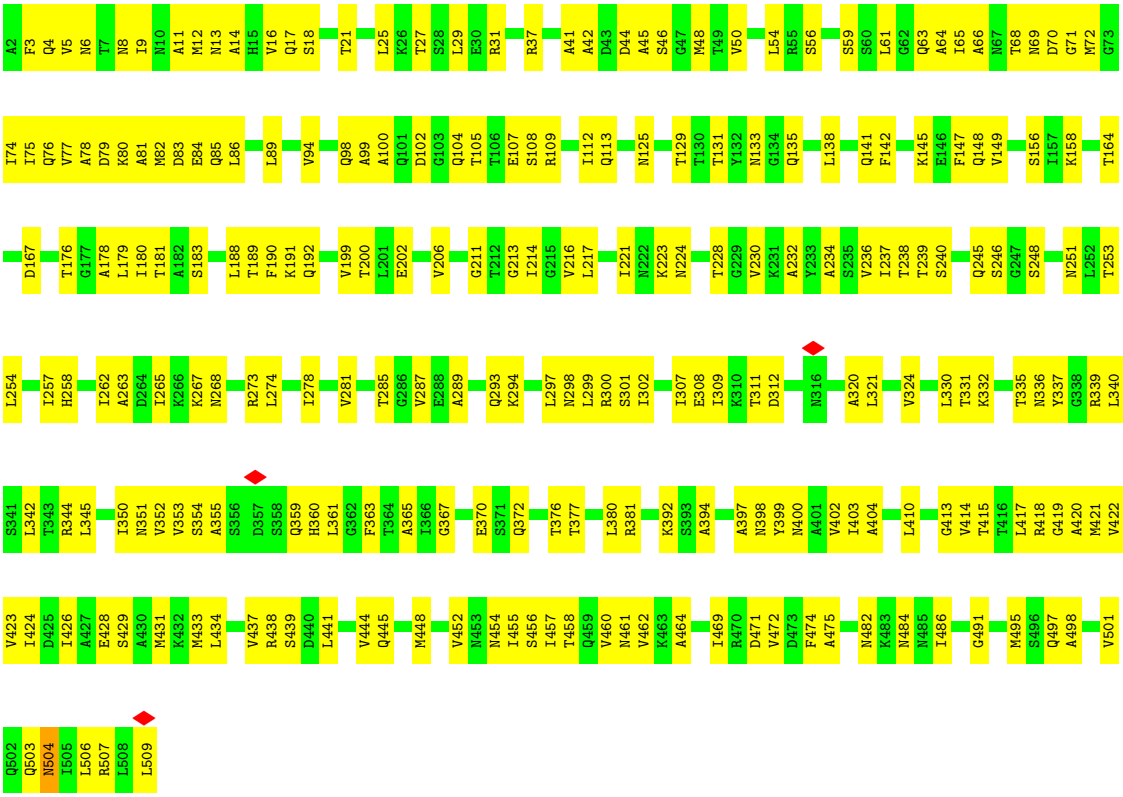




• Molecule 1: Flagellin

Chain Z9:

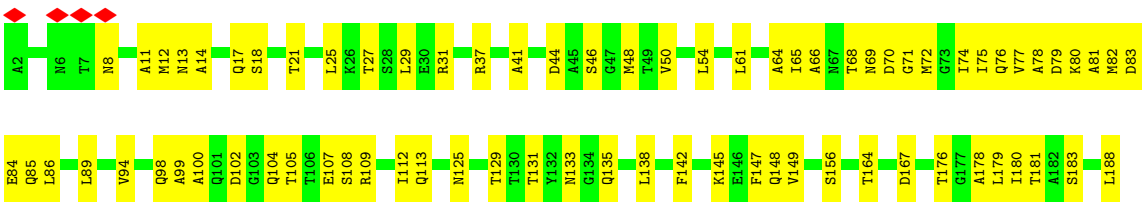


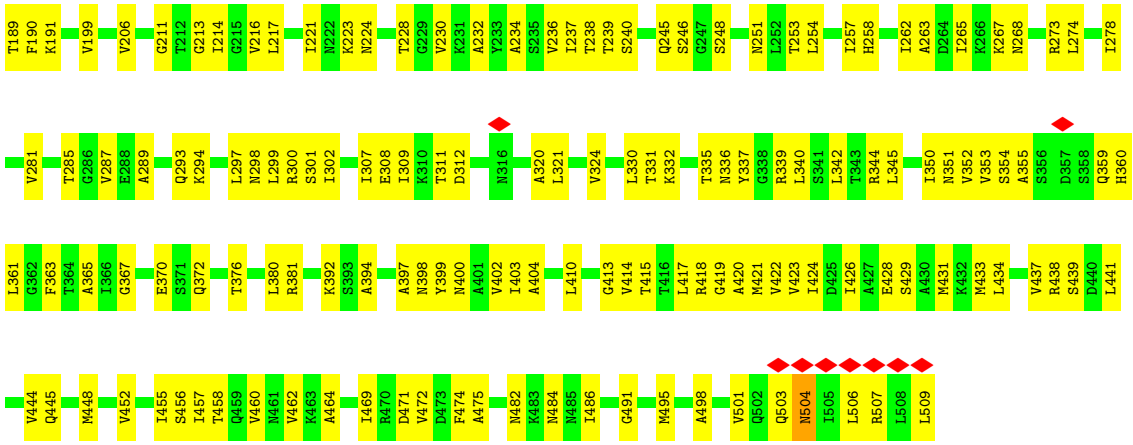


• Molecule 1: Flagellin

Chain OA:



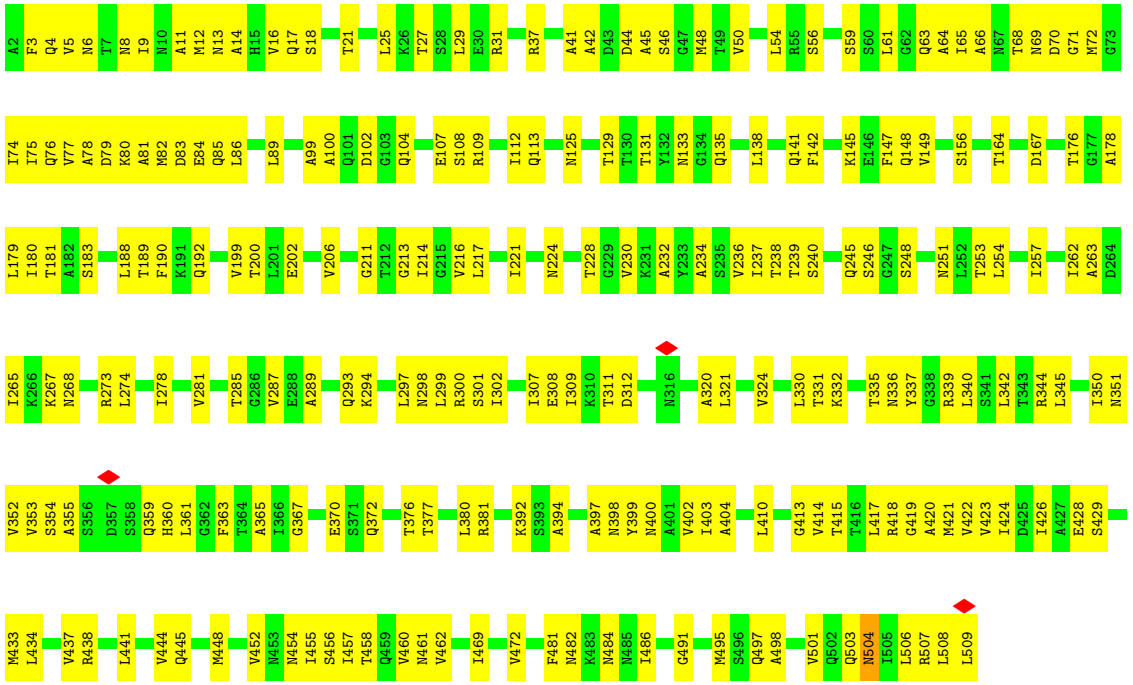




• Molecule 1: Flagellin

Chain FB:



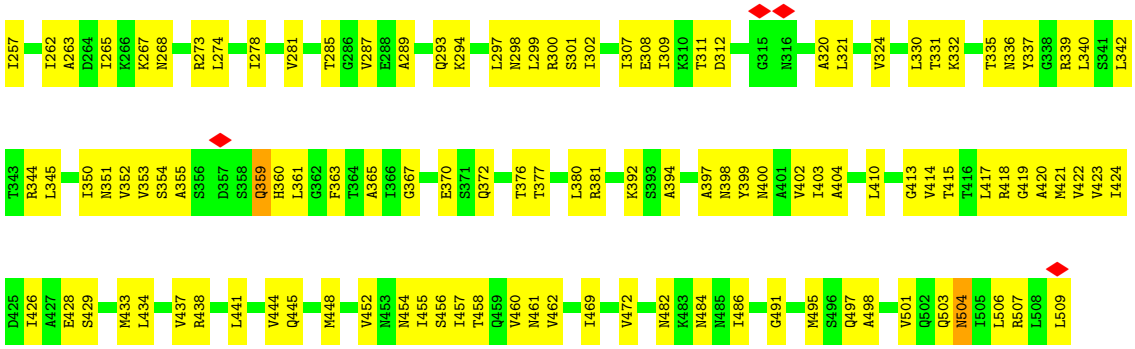


• Molecule 1: Flagellin

Chain dC:



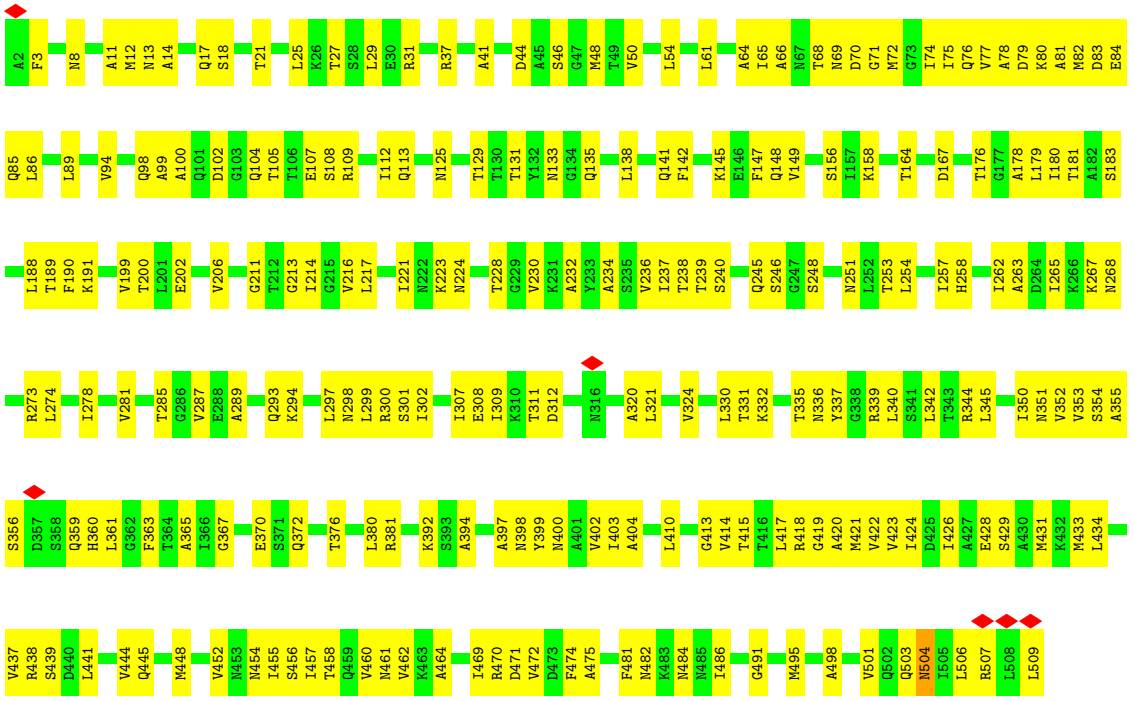




• Molecule 1: Flagellin

Chain JD:

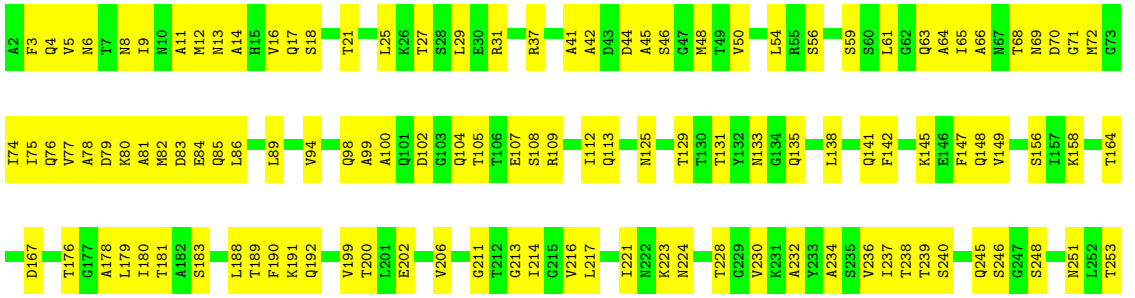




• Molecule 1: Flagellin

Chain KE:



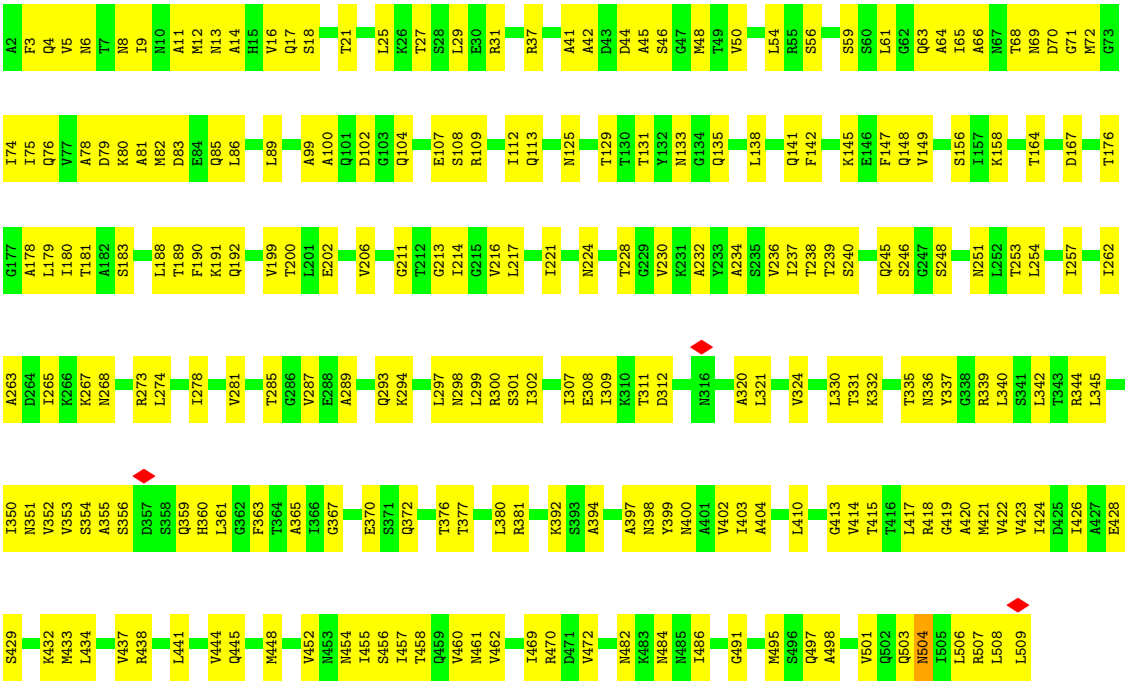




• Molecule 1: Flagellin

Chain LF:

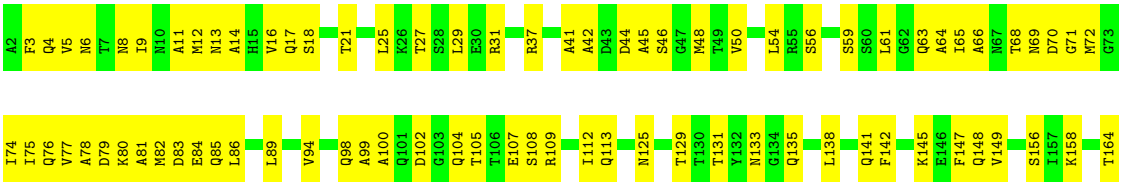


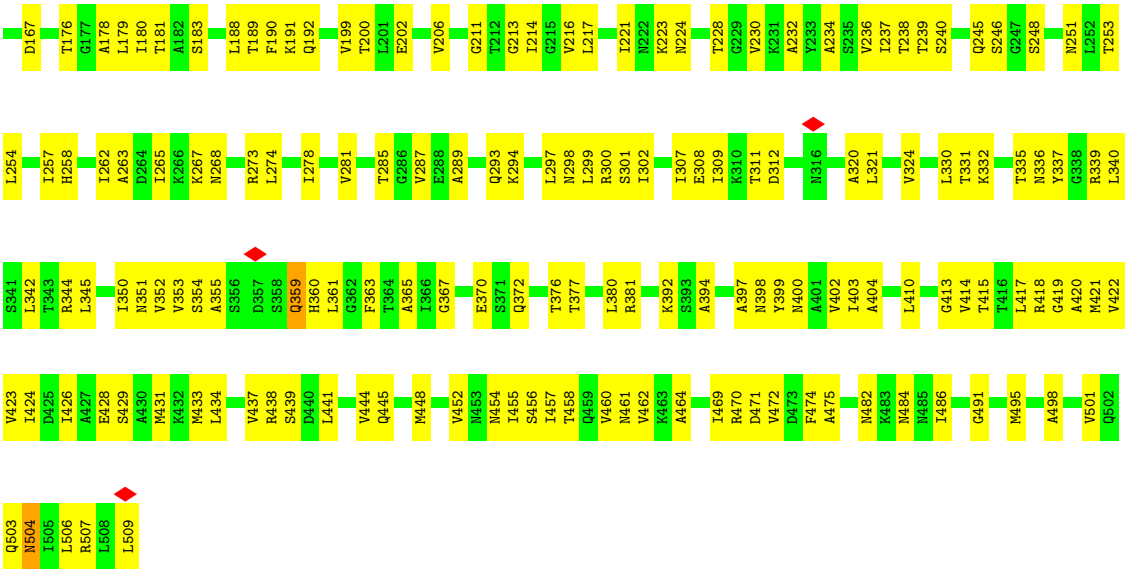


• Molecule 1: Flagellin

Chain WG:



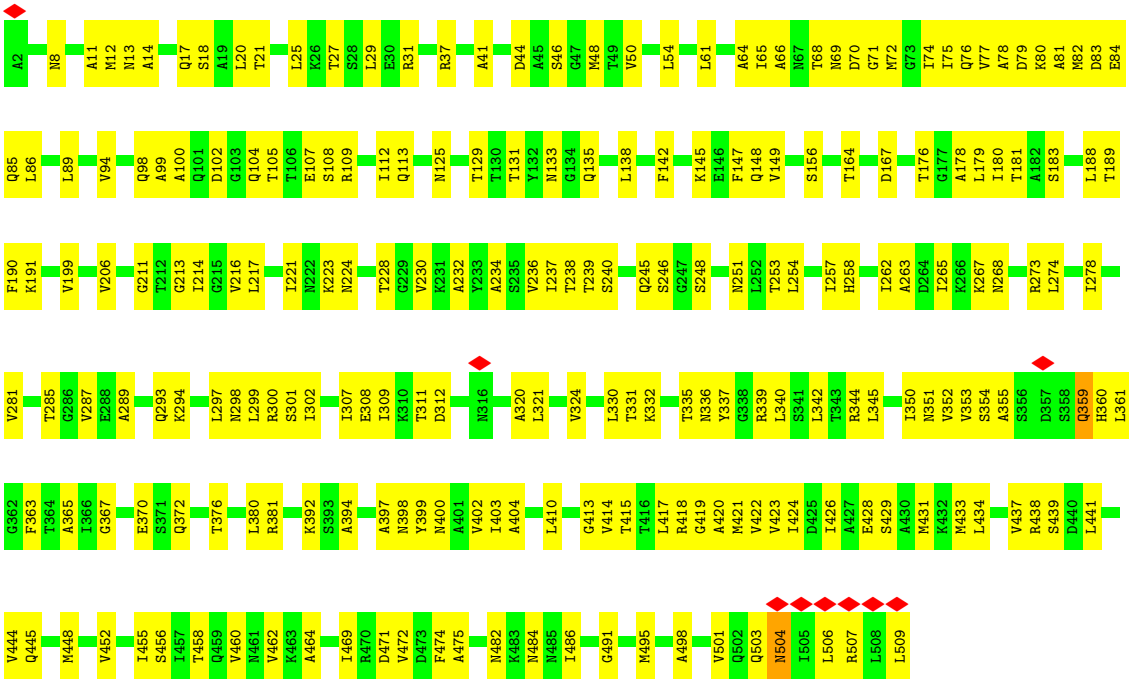




• Molecule 1: Flagellin

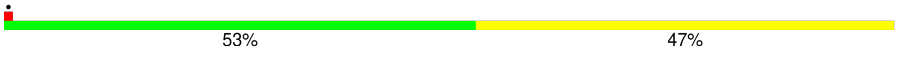
Chain UH:



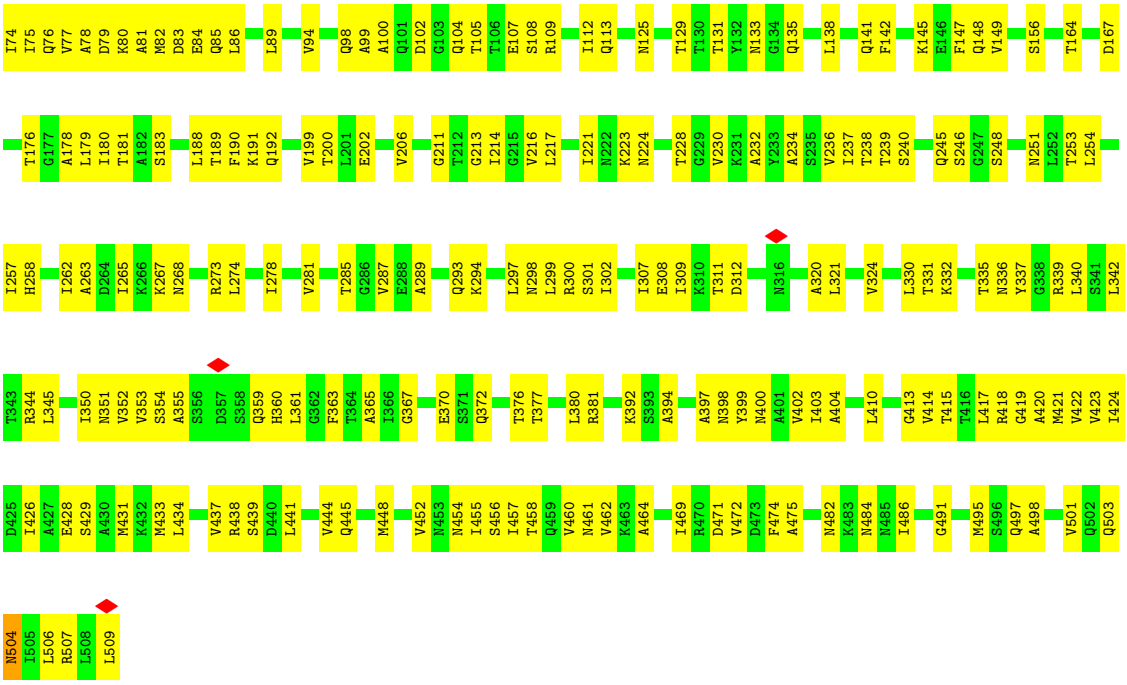


• Molecule 1: Flagellin

Chain NI:



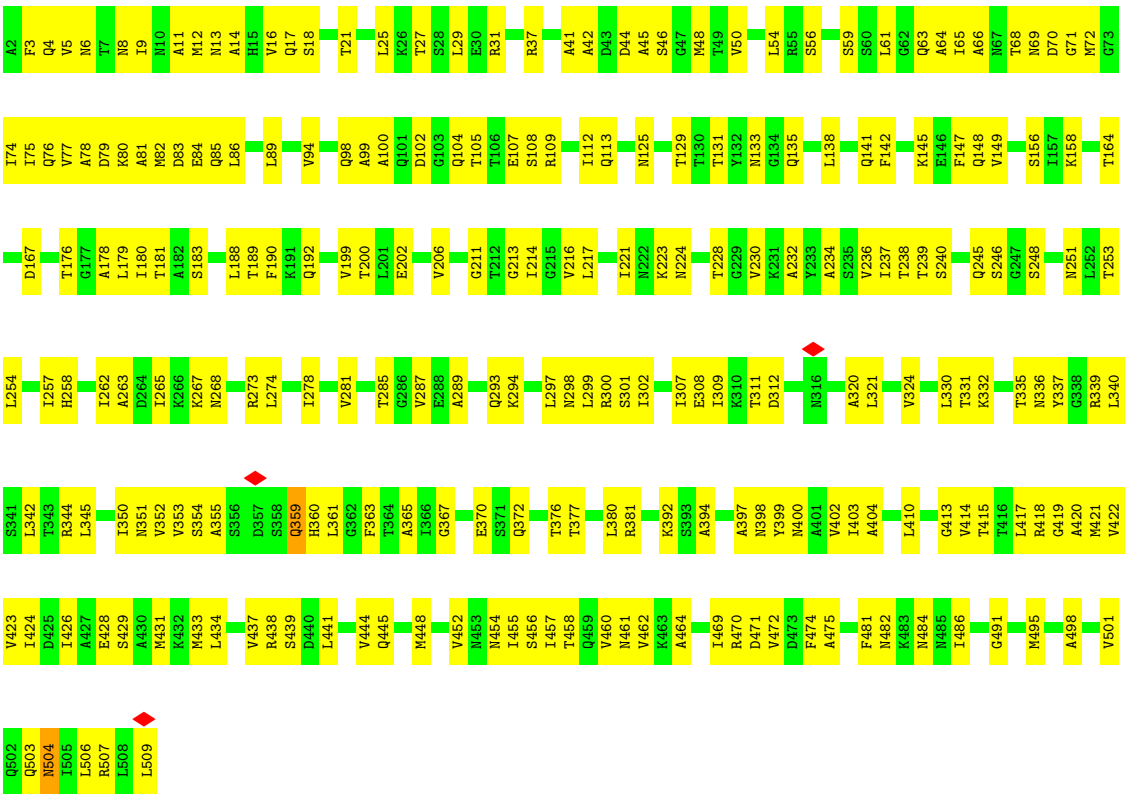




• Molecule 1: Flagellin

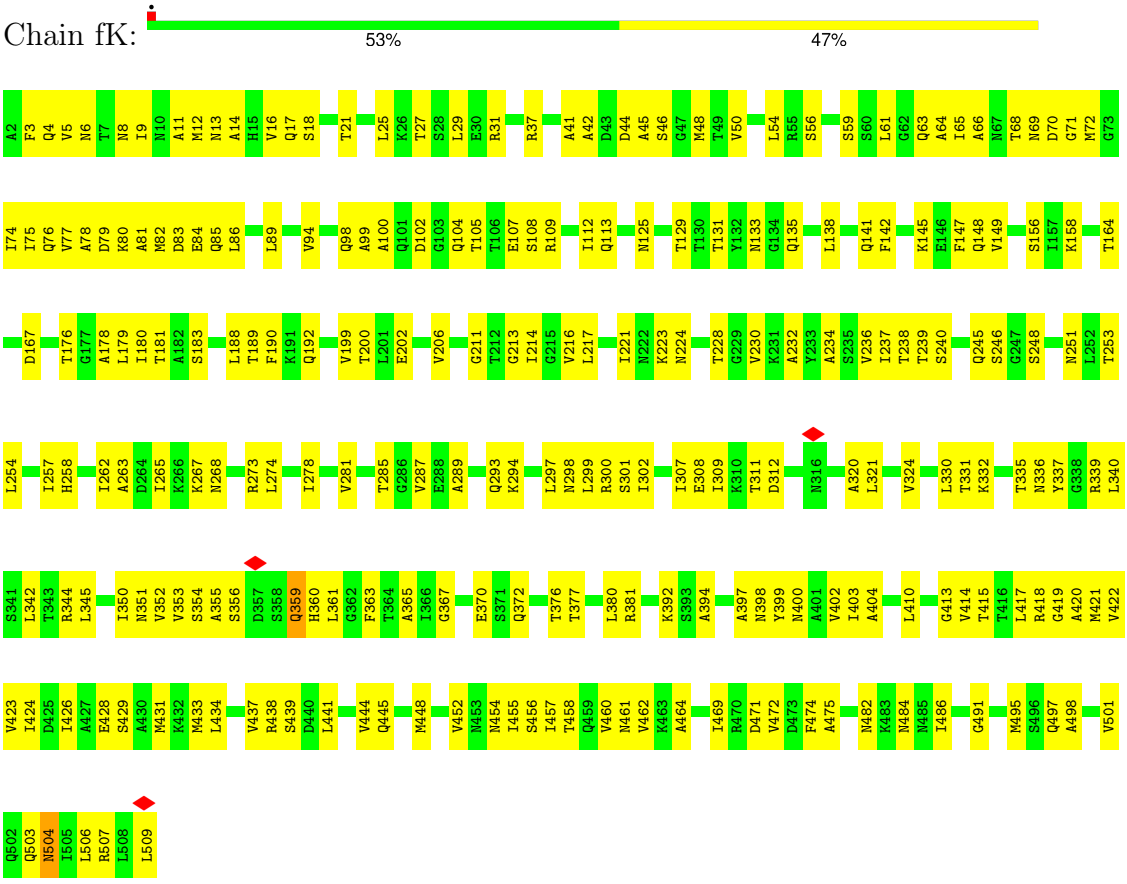
Chain BJ:





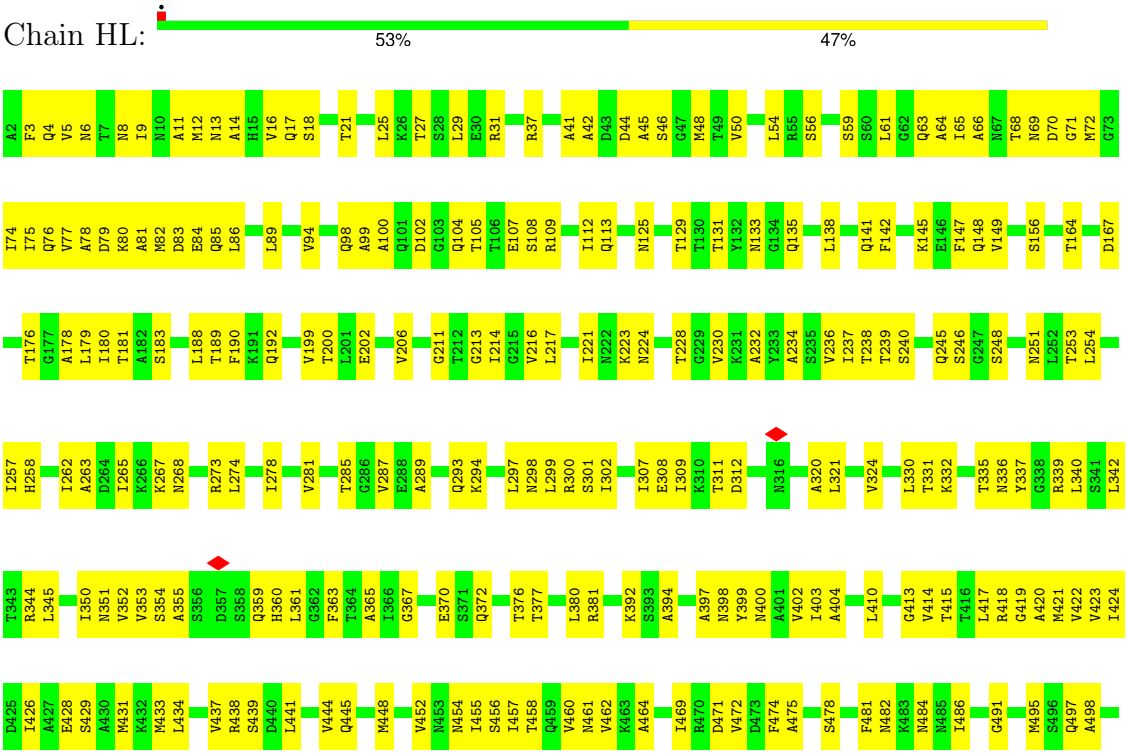
• Molecule 1: Flagellin

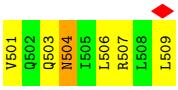
Chain fK:



• Molecule 1: Flagellin

Chain HL:

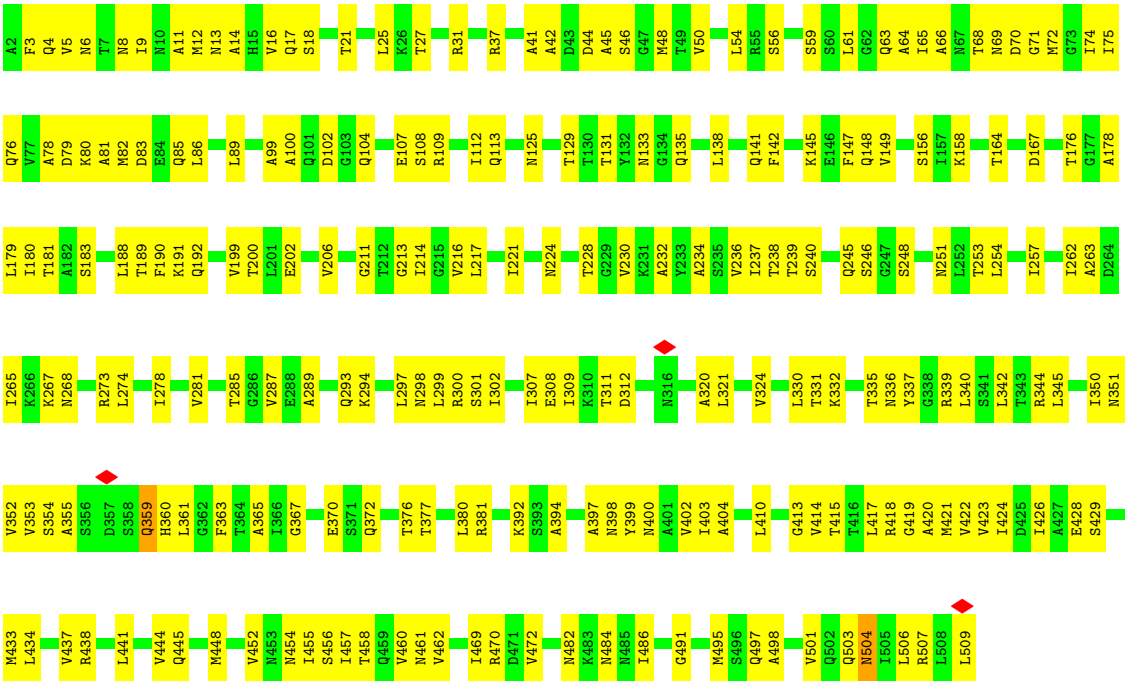




• Molecule 1: Flagellin

Chain XM:

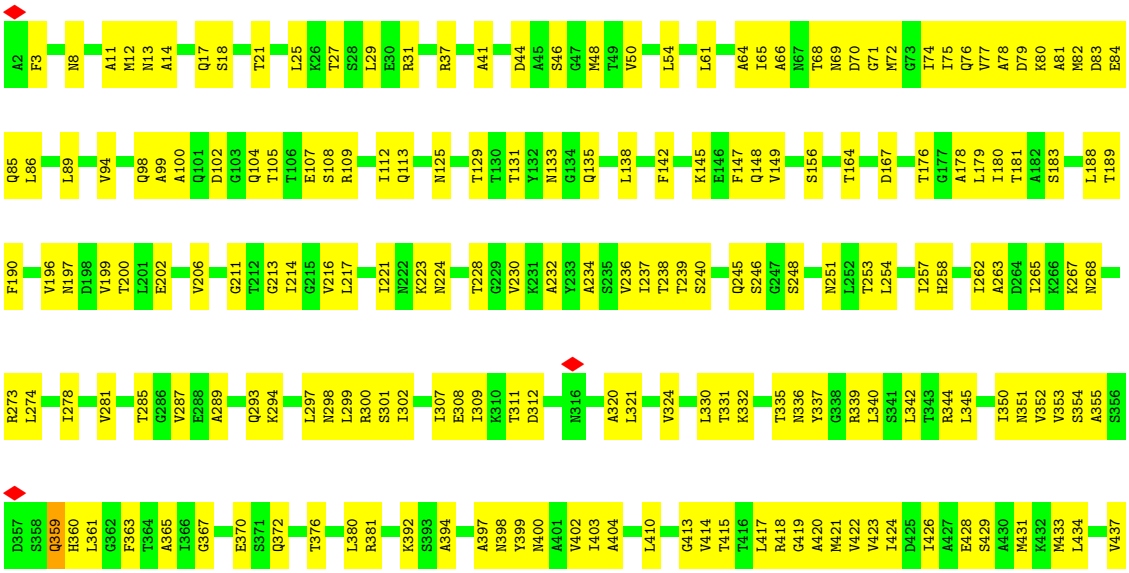




• Molecule 1: Flagellin

Chain DN:



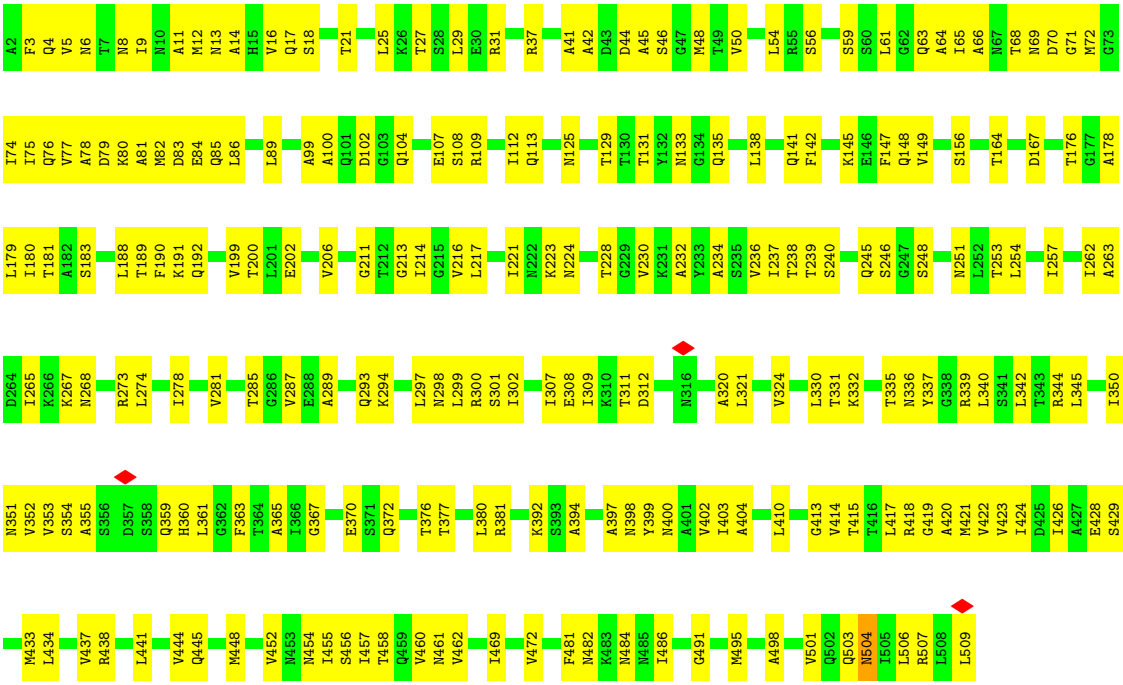




• Molecule 1: Flagellin

Chain MO:

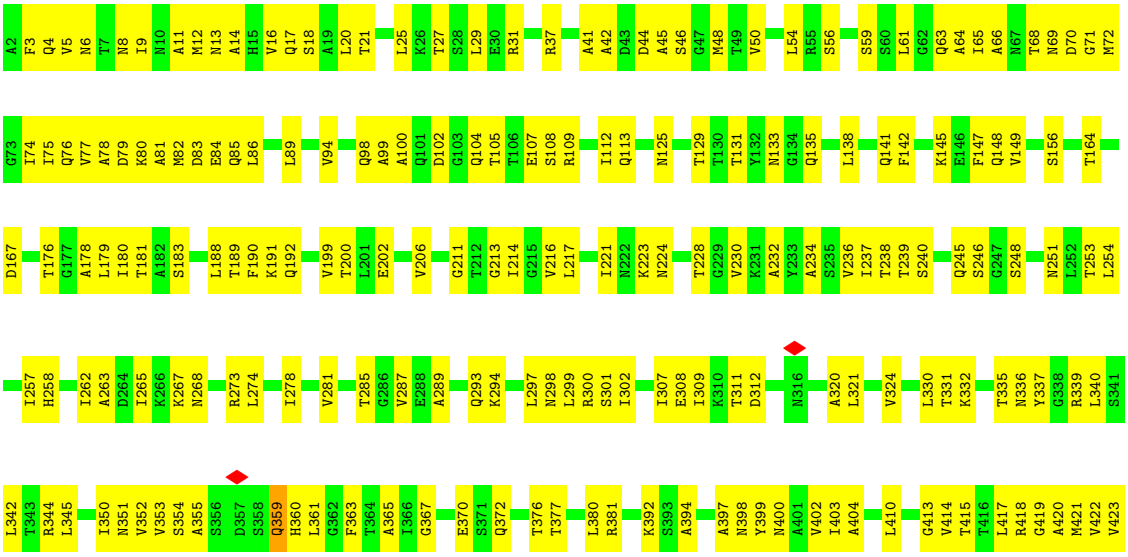


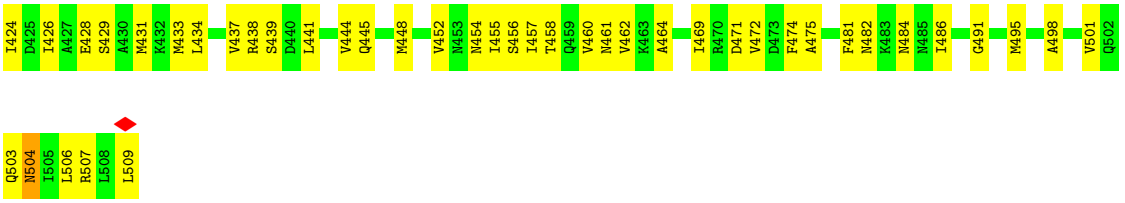


• Molecule 1: Flagellin

Chain TP:



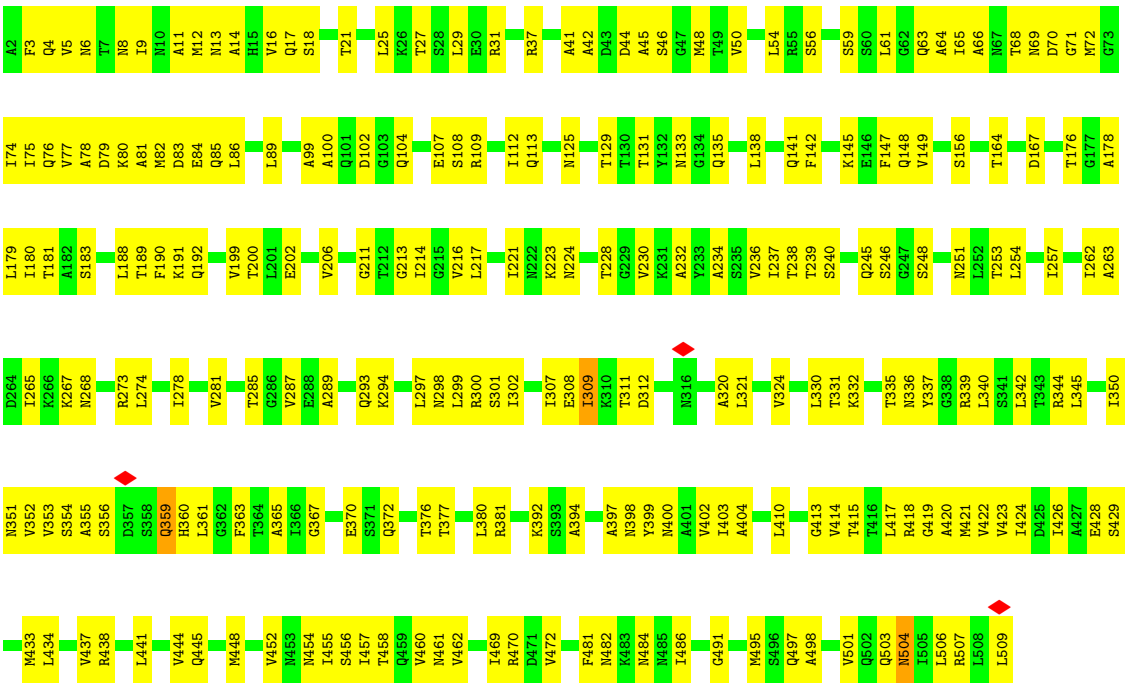




• Molecule 1: Flagellin

Chain GQ:

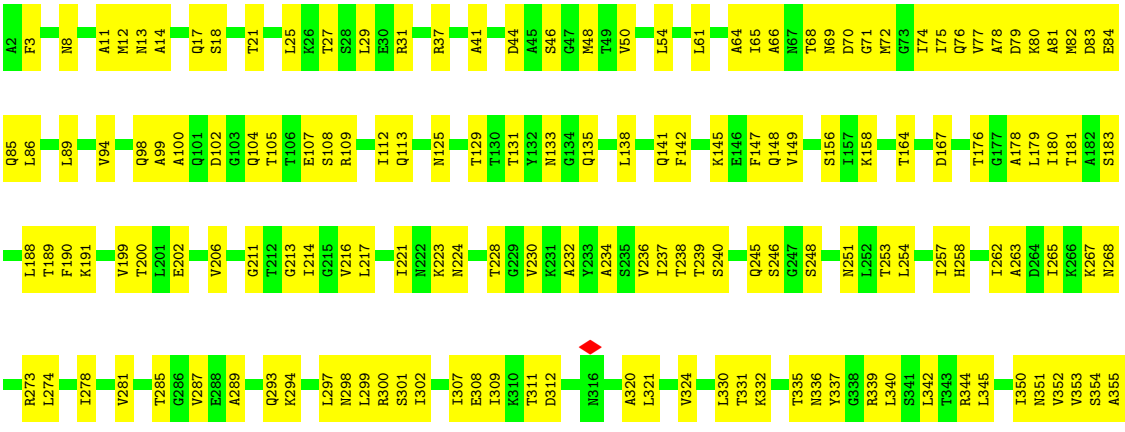


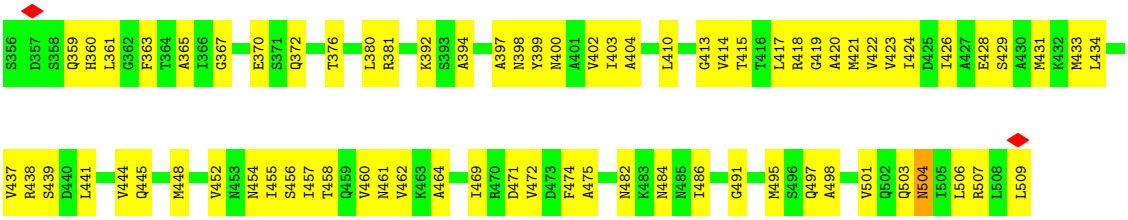


• Molecule 1: Flagellin

Chain VR:



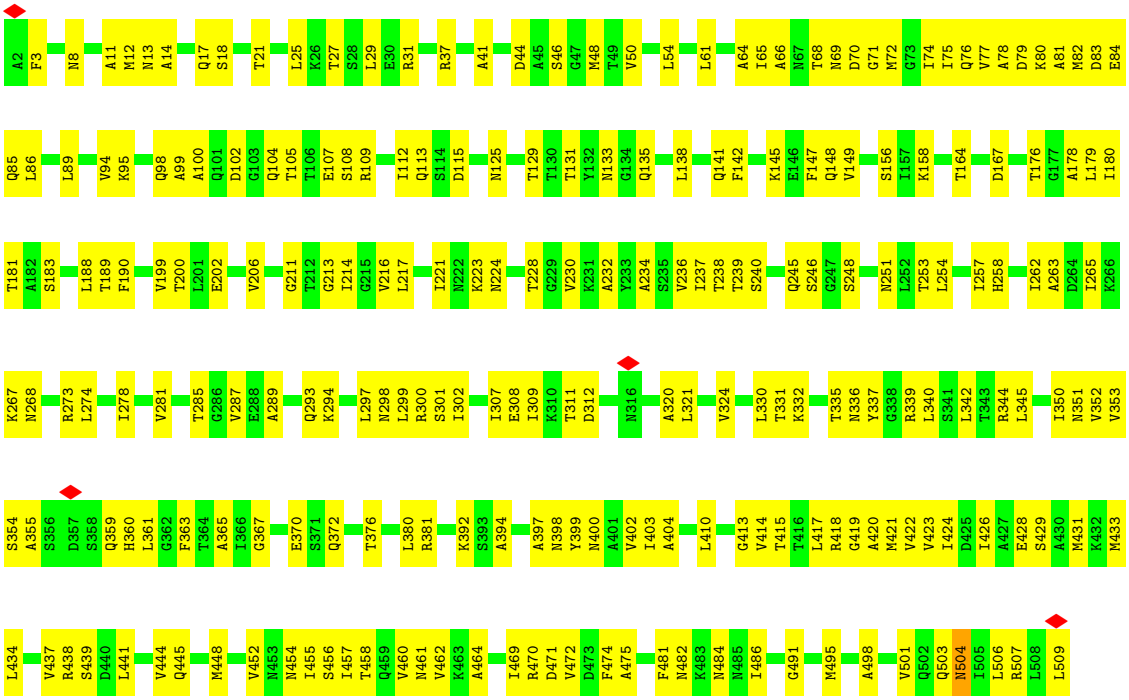




• Molecule 1: Flagellin

Chain bS:

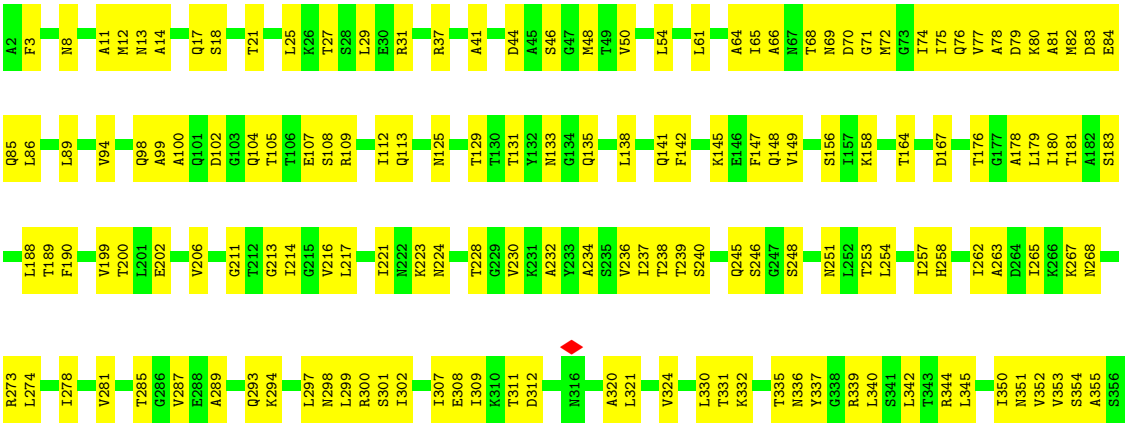


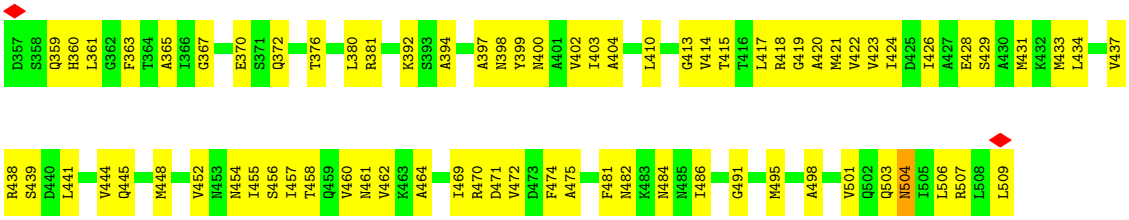


• Molecule 1: Flagellin

Chain CT:



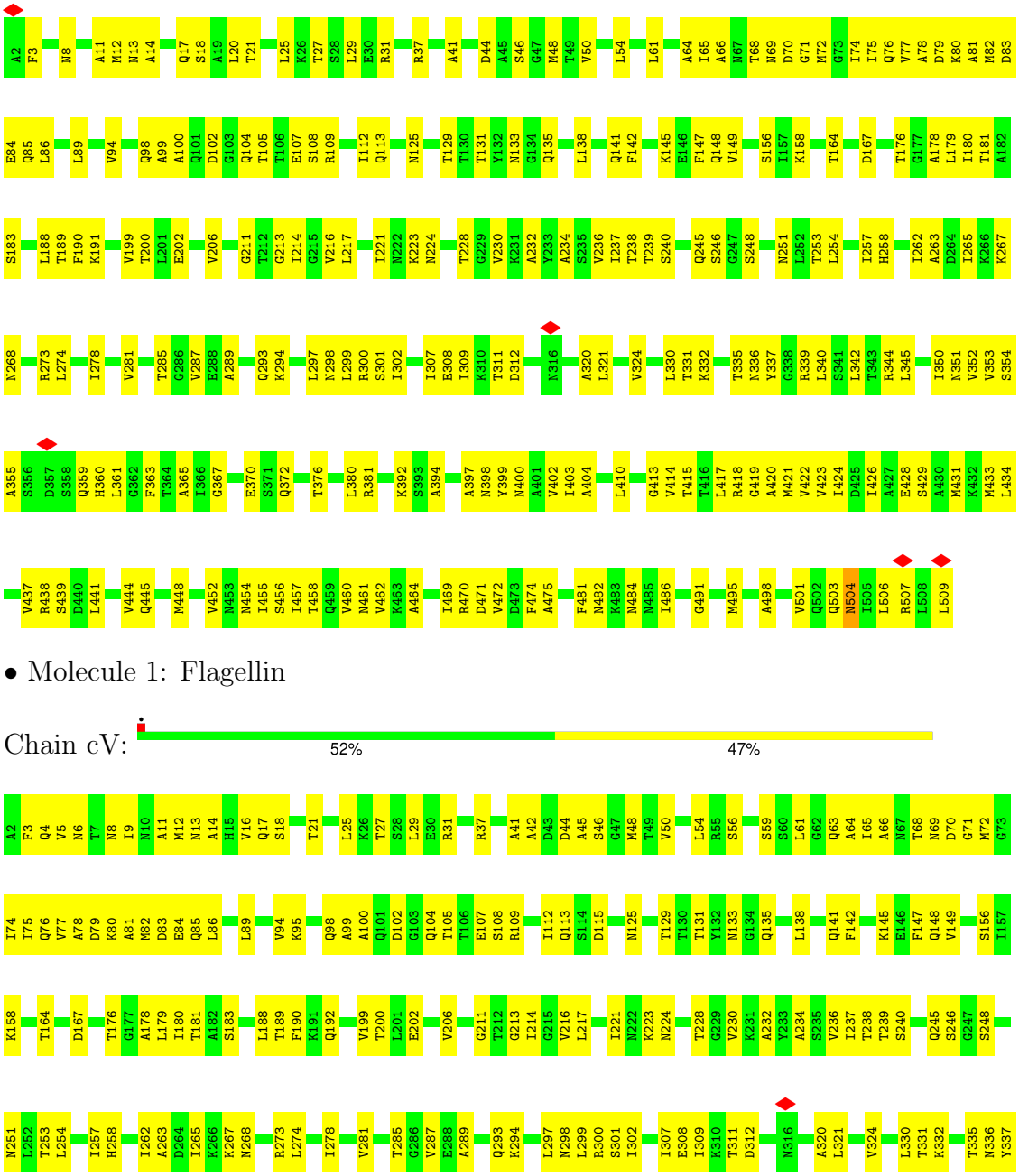




• Molecule 1: Flagellin

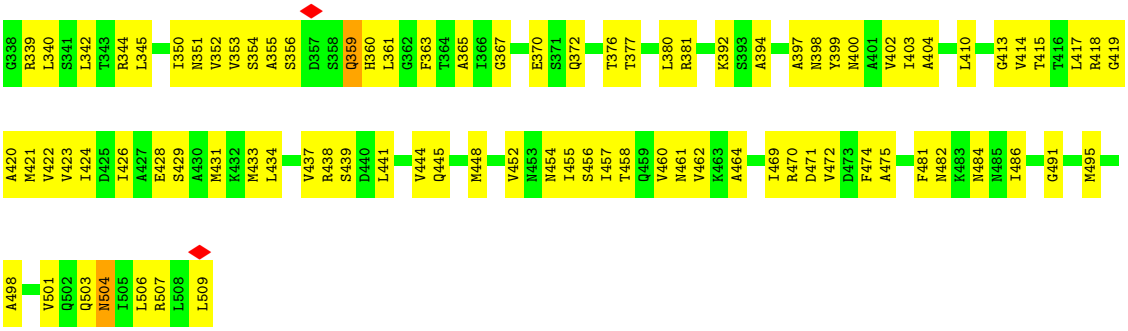
Chain PU:





• Molecule 1: Flagellin

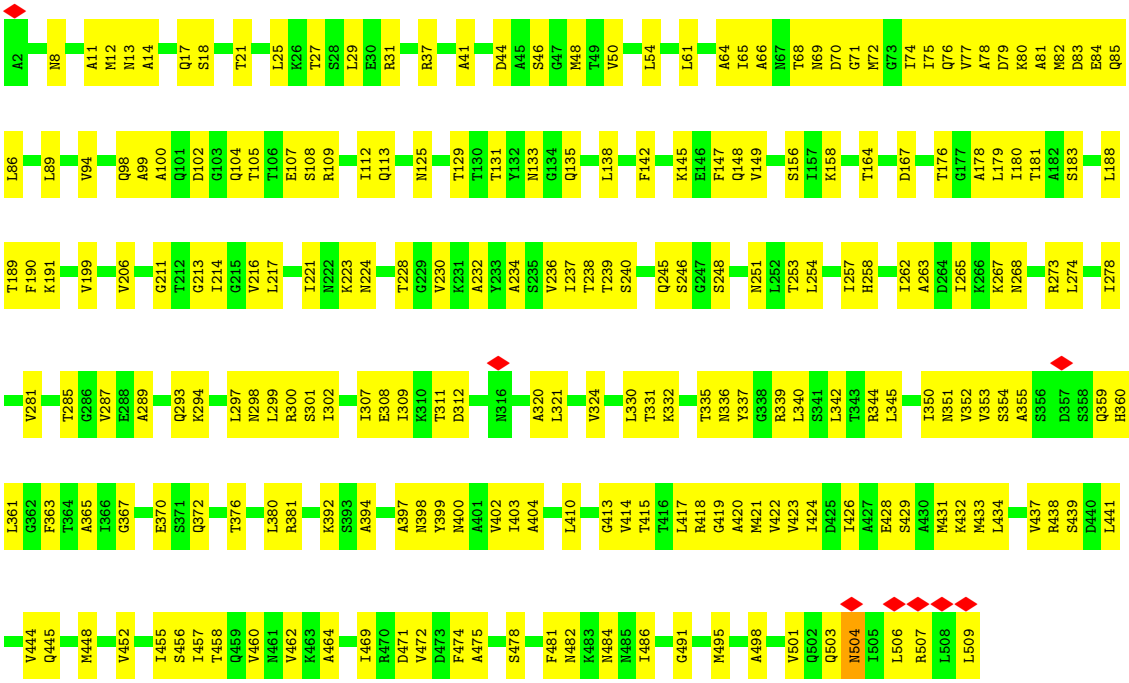
Chain cV:



• Molecule 1: Flagellin

Chain aW:

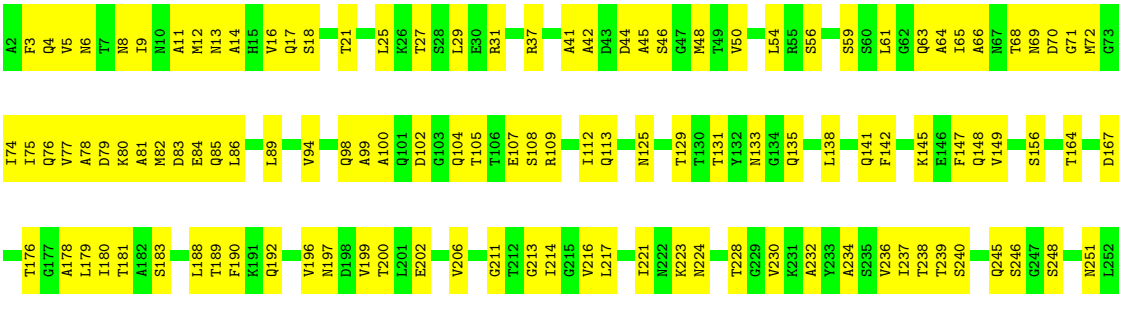




• Molecule 1: Flagellin

Chain EX:






T253 L254 I257 H258 I262 A263 D264 I265 K266 K267 N268 R273 L274 I278 V281 T285 G286 V287 E288 A289 Q293 K294 L297 N298 L299 R300 S301 I302 I307 E308 I309 K310 T311 D312 N316 A320 L321 V324 L330 T331 K332 T335 N336 Y337 G338 R339
L340 S341 L342 T343 R344 L345 I350 N351 V352 V353 S354 A355 S356 D357 S358 Q359 H360 L361 G362 F363 T364 A365 I366 G367 E370 S371 Q372 T376 T377 L380 R381 K392 S393 A394 A397 N398 Y399 N400 A401 V402 I403 A404 L410 G413 V414 T415 T416 L417 R418 G419 A420 M421
V422 V423 I424 D425 I426 A427 E428 S429 A430 M431 K432 M433 L434 V437 R438 S439 D440 L441 V444 Q445 M448 V452 N453 N454 I455 S456 I457 T458 Q459 V460 N461 V462 K463 A464 I469 R470 D471 V472 D473 F474 A475 N482 K483 N484 N485 I486 G491 M495 S496 Q497 A498
V501 Q502 Q503 N504 I505 L506 R507 L508 L509

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	228410	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 ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.777	Depositor
Minimum map value	-0.363	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.041	Depositor
Recommended contour level	0.111	Depositor
Map size (Å)	427.19998, 427.19998, 427.19998	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.068, 1.068, 1.068	Depositor

5 Model quality

5.1 Standard geometry

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	A7	0.08	0/3732	0.21	0/5046
1	BJ	0.08	0/3732	0.21	0/5046
1	CT	0.08	0/3732	0.21	0/5046
1	DN	0.08	0/3732	0.21	0/5046
1	EX	0.08	0/3732	0.21	0/5046
1	FB	0.08	0/3732	0.21	0/5046
1	GQ	0.08	0/3732	0.21	0/5046
1	HL	0.08	0/3732	0.21	0/5046
1	I3	0.08	0/3732	0.21	0/5046
1	JD	0.08	0/3732	0.21	0/5046
1	KE	0.08	0/3732	0.21	0/5046
1	LF	0.08	0/3732	0.21	0/5046
1	MO	0.08	0/3732	0.21	0/5046
1	NI	0.08	0/3732	0.21	0/5046
1	OA	0.08	0/3732	0.21	0/5046
1	PU	0.08	0/3732	0.21	0/5046
1	Q2	0.08	0/3732	0.21	0/5046
1	R4	0.08	0/3732	0.21	0/5046
1	S5	0.08	0/3732	0.21	0/5046
1	TP	0.08	0/3732	0.21	0/5046
1	UH	0.08	0/3732	0.21	0/5046
1	VR	0.08	0/3732	0.21	0/5046
1	WG	0.08	0/3732	0.21	0/5046
1	XM	0.08	0/3732	0.21	0/5046
1	Y1	0.08	0/3732	0.21	0/5046
1	Z9	0.08	0/3732	0.21	0/5046
1	aW	0.08	0/3732	0.21	0/5046
1	bS	0.08	0/3732	0.21	0/5046
1	cV	0.08	0/3732	0.21	0/5046
1	dC	0.08	0/3732	0.21	0/5046
1	e8	0.08	0/3732	0.21	0/5046
1	fK	0.08	0/3732	0.21	0/5046

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	g6	0.08	0/3732	0.21	0/5046
All	All	0.08	0/123156	0.21	0/166518

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	A7	3713	0	3729	251	0
1	BJ	3713	0	3729	292	0
1	CT	3713	0	3729	268	0
1	DN	3713	0	3729	260	0
1	EX	3713	0	3729	288	0
1	FB	3713	0	3729	260	0
1	GQ	3713	0	3729	266	0
1	HL	3713	0	3729	288	0
1	I3	3713	0	3729	245	0
1	JD	3713	0	3729	263	0
1	KE	3713	0	3729	288	0
1	LF	3713	0	3729	249	0
1	MO	3713	0	3729	266	0
1	NI	3713	0	3729	285	0
1	OA	3713	0	3729	245	0
1	PU	3713	0	3729	267	0
1	Q2	3713	0	3729	289	0
1	R4	3713	0	3729	250	0
1	S5	3713	0	3729	262	0
1	TP	3713	0	3729	284	0
1	UH	3713	0	3729	243	0
1	VR	3713	0	3729	264	0
1	WG	3713	0	3729	285	0
1	XM	3713	0	3729	251	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Y1	3713	0	3729	268	0
1	Z9	3713	0	3729	289	0
1	aW	3713	0	3729	252	0
1	bS	3713	0	3729	270	0
1	cV	3713	0	3729	289	0
1	dC	3713	0	3729	247	0
1	e8	3713	0	3729	266	0
1	fK	3713	0	3729	292	0
1	g6	3713	0	3729	252	0
2	A7	112	112	0	0	0
2	BJ	112	112	0	0	0
2	CT	112	112	0	0	0
2	DN	112	112	0	0	0
2	EX	112	112	0	0	0
2	FB	112	112	0	0	0
2	GQ	112	112	0	0	0
2	HL	112	112	0	0	0
2	I3	112	112	0	0	0
2	JD	112	112	0	0	0
2	KE	112	112	0	0	0
2	LF	112	112	0	0	0
2	MO	112	112	0	0	0
2	NI	112	112	0	0	0
2	OA	112	112	0	0	0
2	PU	112	112	0	0	0
2	Q2	112	112	0	0	0
2	R4	112	112	0	0	0
2	S5	112	112	0	0	0
2	TP	112	112	0	0	0
2	UH	112	112	0	0	0
2	VR	112	112	0	0	0
2	WG	112	112	0	0	0
2	XM	112	112	0	0	0
2	Y1	112	112	0	0	0
2	Z9	112	112	0	0	0
2	aW	112	112	0	0	0
2	bS	112	112	0	0	0
2	cV	112	112	0	0	0
2	dC	112	112	0	0	0
2	e8	112	112	0	0	0
2	fK	112	112	0	0	0
2	g6	112	112	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	126225	3696	123057	7830	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 31.

All (7830) 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:S5:82:MET:HE1	1:S5:441:LEU:HD12	1.29	1.15
1:UH:82:MET:HE1	1:UH:441:LEU:HD12	1.29	1.15
1:TP:82:MET:HE1	1:TP:441:LEU:HD12	1.29	1.15
1:aW:82:MET:HE1	1:aW:441:LEU:HD12	1.29	1.14
1:Y1:82:MET:HE1	1:Y1:441:LEU:HD12	1.29	1.14
1:Z9:82:MET:HE1	1:Z9:441:LEU:HD12	1.29	1.14
1:MO:82:MET:HE1	1:MO:441:LEU:HD12	1.29	1.14
1:OA:82:MET:HE1	1:OA:441:LEU:HD12	1.29	1.14
1:NI:82:MET:HE1	1:NI:441:LEU:HD12	1.29	1.14
1:HL:82:MET:HE1	1:HL:441:LEU:HD12	1.29	1.13
1:GQ:82:MET:HE1	1:GQ:441:LEU:HD12	1.29	1.13
1:I3:82:MET:HE1	1:I3:441:LEU:HD12	1.29	1.13
1:A7:82:MET:HE1	1:A7:441:LEU:HD12	1.29	1.12
1:CT:82:MET:HE1	1:CT:441:LEU:HD12	1.29	1.12
1:JD:82:MET:HE1	1:JD:441:LEU:HD12	1.29	1.12
1:BJ:82:MET:HE1	1:BJ:441:LEU:HD12	1.29	1.12
1:KE:82:MET:HE1	1:KE:441:LEU:HD12	1.29	1.11
1:LF:82:MET:HE1	1:LF:441:LEU:HD12	1.29	1.11
1:DN:82:MET:HE1	1:DN:441:LEU:HD12	1.29	1.10
1:EX:82:MET:HE1	1:EX:441:LEU:HD12	1.29	1.10
1:FB:82:MET:HE1	1:FB:441:LEU:HD12	1.29	1.10
1:e8:82:MET:HE1	1:e8:441:LEU:HD12	1.29	1.10
1:dC:82:MET:HE1	1:dC:441:LEU:HD12	1.29	1.09
1:fK:82:MET:HE1	1:fK:441:LEU:HD12	1.29	1.09
1:bS:82:MET:HE1	1:bS:441:LEU:HD12	1.29	1.09
1:cV:82:MET:HE1	1:cV:441:LEU:HD12	1.29	1.09
1:g6:82:MET:HE1	1:g6:441:LEU:HD12	1.29	1.09
1:R4:82:MET:HE1	1:R4:441:LEU:HD12	1.29	1.09
1:PU:82:MET:HE1	1:PU:441:LEU:HD12	1.29	1.09
1:Q2:82:MET:HE1	1:Q2:441:LEU:HD12	1.29	1.09
1:VR:82:MET:HE1	1:VR:441:LEU:HD12	1.29	1.08
1:WG:82:MET:HE1	1:WG:441:LEU:HD12	1.29	1.08
1:XM:82:MET:HE1	1:XM:441:LEU:HD12	1.29	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:353:VAL:HB	1:JD:359:GLN:HG3	1.36	1.07
1:KE:353:VAL:HB	1:KE:359:GLN:HG3	1.36	1.07
1:LF:353:VAL:HB	1:LF:359:GLN:HG3	1.36	1.07
1:DN:353:VAL:HB	1:DN:359:GLN:HG3	1.36	1.07
1:EX:353:VAL:HB	1:EX:359:GLN:HG3	1.36	1.07
1:A7:353:VAL:HB	1:A7:359:GLN:HG3	1.36	1.07
1:FB:353:VAL:HB	1:FB:359:GLN:HG3	1.36	1.07
1:dC:353:VAL:HB	1:dC:359:GLN:HG3	1.36	1.07
1:BJ:353:VAL:HB	1:BJ:359:GLN:HG3	1.36	1.07
1:bS:353:VAL:HB	1:bS:359:GLN:HG3	1.36	1.07
1:cV:353:VAL:HB	1:cV:359:GLN:HG3	1.36	1.07
1:CT:353:VAL:HB	1:CT:359:GLN:HG3	1.36	1.06
1:g6:353:VAL:HB	1:g6:359:GLN:HG3	1.36	1.06
1:fK:353:VAL:HB	1:fK:359:GLN:HG3	1.36	1.05
1:Q2:308:GLU:HG2	1:Q2:335:THR:HG22	1.39	1.05
1:Q2:353:VAL:HB	1:Q2:359:GLN:HG3	1.36	1.05
1:R4:353:VAL:HB	1:R4:359:GLN:HG3	1.36	1.05
1:PU:308:GLU:HG2	1:PU:335:THR:HG22	1.39	1.05
1:R4:308:GLU:HG2	1:R4:335:THR:HG22	1.39	1.05
1:e8:353:VAL:HB	1:e8:359:GLN:HG3	1.36	1.05
1:dC:308:GLU:HG2	1:dC:335:THR:HG22	1.39	1.05
1:WG:308:GLU:HG2	1:WG:335:THR:HG22	1.39	1.05
1:XM:308:GLU:HG2	1:XM:335:THR:HG22	1.39	1.05
1:bS:308:GLU:HG2	1:bS:335:THR:HG22	1.39	1.05
1:PU:353:VAL:HB	1:PU:359:GLN:HG3	1.36	1.05
1:cV:308:GLU:HG2	1:cV:335:THR:HG22	1.39	1.05
1:A7:308:GLU:HG2	1:A7:335:THR:HG22	1.39	1.05
1:WG:353:VAL:HB	1:WG:359:GLN:HG3	1.36	1.05
1:BJ:308:GLU:HG2	1:BJ:335:THR:HG22	1.39	1.05
1:XM:353:VAL:HB	1:XM:359:GLN:HG3	1.36	1.05
1:GQ:353:VAL:HB	1:GQ:359:GLN:HG3	1.36	1.05
1:VR:308:GLU:HG2	1:VR:335:THR:HG22	1.39	1.05
1:VR:353:VAL:HB	1:VR:359:GLN:HG3	1.36	1.05
1:CT:308:GLU:HG2	1:CT:335:THR:HG22	1.39	1.05
1:HL:353:VAL:HB	1:HL:359:GLN:HG3	1.36	1.04
1:I3:353:VAL:HB	1:I3:359:GLN:HG3	1.36	1.03
1:JD:308:GLU:HG2	1:JD:335:THR:HG22	1.39	1.03
1:KE:308:GLU:HG2	1:KE:335:THR:HG22	1.39	1.03
1:LF:308:GLU:HG2	1:LF:335:THR:HG22	1.39	1.03
1:aW:353:VAL:HB	1:aW:359:GLN:HG3	1.36	1.03
1:DN:308:GLU:HG2	1:DN:335:THR:HG22	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:308:GLU:HG2	1:GQ:335:THR:HG22	1.39	1.03
1:Z9:353:VAL:HB	1:Z9:359:GLN:HG3	1.36	1.02
1:g6:308:GLU:HG2	1:g6:335:THR:HG22	1.39	1.02
1:HL:308:GLU:HG2	1:HL:335:THR:HG22	1.39	1.02
1:EX:308:GLU:HG2	1:EX:335:THR:HG22	1.39	1.02
1:Y1:353:VAL:HB	1:Y1:359:GLN:HG3	1.36	1.02
1:OA:353:VAL:HB	1:OA:359:GLN:HG3	1.36	1.02
1:FB:308:GLU:HG2	1:FB:335:THR:HG22	1.39	1.02
1:I3:308:GLU:HG2	1:I3:335:THR:HG22	1.39	1.02
1:fK:308:GLU:HG2	1:fK:335:THR:HG22	1.39	1.02
1:NI:353:VAL:HB	1:NI:359:GLN:HG3	1.36	1.02
1:MO:353:VAL:HB	1:MO:359:GLN:HG3	1.36	1.02
1:MO:308:GLU:HG2	1:MO:335:THR:HG22	1.39	1.01
1:UH:308:GLU:HG2	1:UH:335:THR:HG22	1.39	1.01
1:aW:308:GLU:HG2	1:aW:335:THR:HG22	1.39	1.01
1:e8:308:GLU:HG2	1:e8:335:THR:HG22	1.39	1.01
1:UH:353:VAL:HB	1:UH:359:GLN:HG3	1.36	1.01
1:Z9:308:GLU:HG2	1:Z9:335:THR:HG22	1.39	1.01
1:NI:308:GLU:HG2	1:NI:335:THR:HG22	1.39	1.01
1:TP:308:GLU:HG2	1:TP:335:THR:HG22	1.39	1.01
1:S5:308:GLU:HG2	1:S5:335:THR:HG22	1.39	1.01
1:TP:353:VAL:HB	1:TP:359:GLN:HG3	1.36	1.01
1:Y1:308:GLU:HG2	1:Y1:335:THR:HG22	1.39	1.00
1:OA:308:GLU:HG2	1:OA:335:THR:HG22	1.39	1.00
1:S5:353:VAL:HB	1:S5:359:GLN:HG3	1.36	1.00
1:I3:206:VAL:HA	1:I3:213:GLY:HA2	1.57	0.87
1:bS:414:VAL:HG12	1:bS:420:ALA:HA	1.57	0.87
1:HL:206:VAL:HA	1:HL:213:GLY:HA2	1.57	0.87
1:cV:414:VAL:HG12	1:cV:420:ALA:HA	1.57	0.87
1:Z9:206:VAL:HA	1:Z9:213:GLY:HA2	1.57	0.87
1:FB:414:VAL:HG12	1:FB:420:ALA:HA	1.57	0.87
1:HL:414:VAL:HG12	1:HL:420:ALA:HA	1.57	0.87
1:GQ:206:VAL:HA	1:GQ:213:GLY:HA2	1.57	0.87
1:CT:414:VAL:HG12	1:CT:420:ALA:HA	1.57	0.87
1:EX:414:VAL:HG12	1:EX:420:ALA:HA	1.57	0.87
1:Y1:206:VAL:HA	1:Y1:213:GLY:HA2	1.57	0.87
1:I3:414:VAL:HG12	1:I3:420:ALA:HA	1.57	0.87
1:dC:414:VAL:HG12	1:dC:420:ALA:HA	1.57	0.87
1:BJ:414:VAL:HG12	1:BJ:420:ALA:HA	1.57	0.87
1:DN:414:VAL:HG12	1:DN:420:ALA:HA	1.57	0.87
1:aW:206:VAL:HA	1:aW:213:GLY:HA2	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:414:VAL:HG12	1:A7:420:ALA:HA	1.57	0.87
1:e8:206:VAL:HA	1:e8:213:GLY:HA2	1.57	0.87
1:e8:414:VAL:HG12	1:e8:420:ALA:HA	1.57	0.87
1:fK:206:VAL:HA	1:fK:213:GLY:HA2	1.57	0.87
1:GQ:414:VAL:HG12	1:GQ:420:ALA:HA	1.57	0.87
1:Y1:414:VAL:HG12	1:Y1:420:ALA:HA	1.57	0.87
1:g6:206:VAL:HA	1:g6:213:GLY:HA2	1.57	0.87
1:NI:206:VAL:HA	1:NI:213:GLY:HA2	1.57	0.87
1:MO:206:VAL:HA	1:MO:213:GLY:HA2	1.57	0.87
1:Z9:414:VAL:HG12	1:Z9:420:ALA:HA	1.57	0.87
1:OA:206:VAL:HA	1:OA:213:GLY:HA2	1.57	0.87
1:fK:414:VAL:HG12	1:fK:420:ALA:HA	1.57	0.87
1:VR:414:VAL:HG12	1:VR:420:ALA:HA	1.57	0.87
1:CT:206:VAL:HA	1:CT:213:GLY:HA2	1.57	0.87
1:g6:414:VAL:HG12	1:g6:420:ALA:HA	1.57	0.86
1:LF:414:VAL:HG12	1:LF:420:ALA:HA	1.57	0.86
1:WG:414:VAL:HG12	1:WG:420:ALA:HA	1.57	0.86
1:BJ:206:VAL:HA	1:BJ:213:GLY:HA2	1.57	0.86
1:XM:414:VAL:HG12	1:XM:420:ALA:HA	1.57	0.86
1:aW:414:VAL:HG12	1:aW:420:ALA:HA	1.57	0.86
1:A7:206:VAL:HA	1:A7:213:GLY:HA2	1.57	0.86
1:KE:414:VAL:HG12	1:KE:420:ALA:HA	1.57	0.86
1:S5:206:VAL:HA	1:S5:213:GLY:HA2	1.57	0.86
1:UH:206:VAL:HA	1:UH:213:GLY:HA2	1.57	0.86
1:TP:206:VAL:HA	1:TP:213:GLY:HA2	1.57	0.86
1:JD:414:VAL:HG12	1:JD:420:ALA:HA	1.57	0.86
1:FB:206:VAL:HA	1:FB:213:GLY:HA2	1.57	0.86
1:OA:414:VAL:HG12	1:OA:420:ALA:HA	1.57	0.86
1:S5:414:VAL:HG12	1:S5:420:ALA:HA	1.57	0.86
1:NI:414:VAL:HG12	1:NI:420:ALA:HA	1.57	0.86
1:TP:414:VAL:HG12	1:TP:420:ALA:HA	1.57	0.86
1:EX:206:VAL:HA	1:EX:213:GLY:HA2	1.57	0.86
1:MO:414:VAL:HG12	1:MO:420:ALA:HA	1.57	0.86
1:bS:206:VAL:HA	1:bS:213:GLY:HA2	1.57	0.86
1:DN:206:VAL:HA	1:DN:213:GLY:HA2	1.57	0.86
1:UH:414:VAL:HG12	1:UH:420:ALA:HA	1.57	0.85
1:cV:206:VAL:HA	1:cV:213:GLY:HA2	1.57	0.85
1:PU:414:VAL:HG12	1:PU:420:ALA:HA	1.57	0.85
1:Q2:414:VAL:HG12	1:Q2:420:ALA:HA	1.57	0.85
1:dC:206:VAL:HA	1:dC:213:GLY:HA2	1.57	0.85
1:R4:414:VAL:HG12	1:R4:420:ALA:HA	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:206:VAL:HA	1:LF:213:GLY:HA2	1.57	0.85
1:KE:206:VAL:HA	1:KE:213:GLY:HA2	1.57	0.85
1:VR:206:VAL:HA	1:VR:213:GLY:HA2	1.57	0.84
1:JD:206:VAL:HA	1:JD:213:GLY:HA2	1.57	0.84
1:WG:206:VAL:HA	1:WG:213:GLY:HA2	1.57	0.84
1:R4:206:VAL:HA	1:R4:213:GLY:HA2	1.57	0.84
1:OA:418:ARG:O	1:OA:422:VAL:HG23	1.78	0.84
1:NI:418:ARG:O	1:NI:422:VAL:HG23	1.78	0.84
1:XM:206:VAL:HA	1:XM:213:GLY:HA2	1.57	0.84
1:MO:418:ARG:O	1:MO:422:VAL:HG23	1.78	0.84
1:PU:206:VAL:HA	1:PU:213:GLY:HA2	1.57	0.84
1:bS:418:ARG:O	1:bS:422:VAL:HG23	1.78	0.84
1:Q2:206:VAL:HA	1:Q2:213:GLY:HA2	1.57	0.83
1:S5:418:ARG:O	1:S5:422:VAL:HG23	1.78	0.83
1:dC:418:ARG:O	1:dC:422:VAL:HG23	1.78	0.83
1:UH:418:ARG:O	1:UH:422:VAL:HG23	1.78	0.83
1:TP:418:ARG:O	1:TP:422:VAL:HG23	1.78	0.83
1:cV:418:ARG:O	1:cV:422:VAL:HG23	1.78	0.83
1:Y1:418:ARG:O	1:Y1:422:VAL:HG23	1.78	0.83
1:Z9:418:ARG:O	1:Z9:422:VAL:HG23	1.78	0.83
1:aW:418:ARG:O	1:aW:422:VAL:HG23	1.78	0.83
1:EX:418:ARG:O	1:EX:422:VAL:HG23	1.78	0.83
1:I3:418:ARG:O	1:I3:422:VAL:HG23	1.78	0.83
1:OA:61:LEU:HD22	1:OA:455:ILE:HD12	1.61	0.83
1:FB:418:ARG:O	1:FB:422:VAL:HG23	1.78	0.83
1:DN:418:ARG:O	1:DN:422:VAL:HG23	1.78	0.83
1:VR:418:ARG:O	1:VR:422:VAL:HG23	1.78	0.83
1:HL:418:ARG:O	1:HL:422:VAL:HG23	1.78	0.83
1:MO:61:LEU:HD22	1:MO:455:ILE:HD12	1.61	0.83
1:NI:61:LEU:HD22	1:NI:455:ILE:HD12	1.61	0.82
1:A7:418:ARG:O	1:A7:422:VAL:HG23	1.78	0.82
1:WG:418:ARG:O	1:WG:422:VAL:HG23	1.78	0.82
1:BJ:418:ARG:O	1:BJ:422:VAL:HG23	1.78	0.82
1:XM:418:ARG:O	1:XM:422:VAL:HG23	1.78	0.82
1:GQ:418:ARG:O	1:GQ:422:VAL:HG23	1.78	0.82
1:CT:418:ARG:O	1:CT:422:VAL:HG23	1.78	0.82
1:R4:61:LEU:HD22	1:R4:455:ILE:HD12	1.61	0.82
1:JD:61:LEU:HD22	1:JD:455:ILE:HD12	1.61	0.82
1:KE:61:LEU:HD22	1:KE:455:ILE:HD12	1.61	0.82
1:LF:61:LEU:HD22	1:LF:455:ILE:HD12	1.61	0.82
1:PU:418:ARG:O	1:PU:422:VAL:HG23	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:61:LEU:HD22	1:Q2:455:ILE:HD12	1.61	0.82
1:UH:61:LEU:HD22	1:UH:455:ILE:HD12	1.61	0.82
1:TP:61:LEU:HD22	1:TP:455:ILE:HD12	1.61	0.82
1:PU:61:LEU:HD22	1:PU:455:ILE:HD12	1.61	0.82
1:Q2:418:ARG:O	1:Q2:422:VAL:HG23	1.78	0.82
1:S5:61:LEU:HD22	1:S5:455:ILE:HD12	1.61	0.82
1:R4:418:ARG:O	1:R4:422:VAL:HG23	1.78	0.82
1:g6:418:ARG:O	1:g6:422:VAL:HG23	1.78	0.82
1:e8:418:ARG:O	1:e8:422:VAL:HG23	1.78	0.82
1:fK:418:ARG:O	1:fK:422:VAL:HG23	1.78	0.82
1:LF:418:ARG:O	1:LF:422:VAL:HG23	1.78	0.82
1:WG:61:LEU:HD22	1:WG:455:ILE:HD12	1.61	0.82
1:XM:61:LEU:HD22	1:XM:455:ILE:HD12	1.61	0.82
1:VR:61:LEU:HD22	1:VR:455:ILE:HD12	1.61	0.82
1:I3:61:LEU:HD22	1:I3:455:ILE:HD12	1.61	0.82
1:KE:418:ARG:O	1:KE:422:VAL:HG23	1.78	0.82
1:HL:61:LEU:HD22	1:HL:455:ILE:HD12	1.61	0.82
1:JD:418:ARG:O	1:JD:422:VAL:HG23	1.78	0.81
1:GQ:61:LEU:HD22	1:GQ:455:ILE:HD12	1.61	0.81
1:Y1:61:LEU:HD22	1:Y1:455:ILE:HD12	1.61	0.81
1:Z9:61:LEU:HD22	1:Z9:455:ILE:HD12	1.61	0.81
1:aW:61:LEU:HD22	1:aW:455:ILE:HD12	1.61	0.81
1:DN:61:LEU:HD22	1:DN:455:ILE:HD12	1.61	0.81
1:FB:61:LEU:HD22	1:FB:455:ILE:HD12	1.61	0.81
1:EX:61:LEU:HD22	1:EX:455:ILE:HD12	1.61	0.81
1:g6:61:LEU:HD22	1:g6:455:ILE:HD12	1.61	0.80
1:e8:61:LEU:HD22	1:e8:455:ILE:HD12	1.61	0.80
1:fK:61:LEU:HD22	1:fK:455:ILE:HD12	1.61	0.80
1:bS:61:LEU:HD22	1:bS:455:ILE:HD12	1.61	0.80
1:cV:61:LEU:HD22	1:cV:455:ILE:HD12	1.61	0.80
1:R4:239:THR:HG23	1:R4:400:ASN:HD21	1.47	0.80
1:dC:61:LEU:HD22	1:dC:455:ILE:HD12	1.61	0.80
1:CT:61:LEU:HD22	1:CT:455:ILE:HD12	1.61	0.80
1:Q2:239:THR:HG23	1:Q2:400:ASN:HD21	1.47	0.80
1:A7:61:LEU:HD22	1:A7:455:ILE:HD12	1.61	0.80
1:BJ:61:LEU:HD22	1:BJ:455:ILE:HD12	1.61	0.80
1:VR:239:THR:HG23	1:VR:400:ASN:HD21	1.47	0.80
1:PU:239:THR:HG23	1:PU:400:ASN:HD21	1.47	0.80
1:JD:239:THR:HG23	1:JD:400:ASN:HD21	1.47	0.80
1:WG:239:THR:HG23	1:WG:400:ASN:HD21	1.47	0.80
1:XM:239:THR:HG23	1:XM:400:ASN:HD21	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:239:THR:HG23	1:KE:400:ASN:HD21	1.47	0.80
1:bS:239:THR:HG23	1:bS:400:ASN:HD21	1.47	0.80
1:e8:239:THR:HG23	1:e8:400:ASN:HD21	1.47	0.80
1:cV:239:THR:HG23	1:cV:400:ASN:HD21	1.47	0.80
1:dC:239:THR:HG23	1:dC:400:ASN:HD21	1.47	0.80
1:LF:239:THR:HG23	1:LF:400:ASN:HD21	1.47	0.80
1:fK:239:THR:HG23	1:fK:400:ASN:HD21	1.47	0.80
1:g6:239:THR:HG23	1:g6:400:ASN:HD21	1.47	0.80
1:I3:239:THR:HG23	1:I3:400:ASN:HD21	1.47	0.79
1:FB:239:THR:HG23	1:FB:400:ASN:HD21	1.47	0.79
1:HL:239:THR:HG23	1:HL:400:ASN:HD21	1.47	0.79
1:GQ:239:THR:HG23	1:GQ:400:ASN:HD21	1.47	0.79
1:EX:239:THR:HG23	1:EX:400:ASN:HD21	1.47	0.79
1:A7:239:THR:HG23	1:A7:400:ASN:HD21	1.47	0.79
1:BJ:239:THR:HG23	1:BJ:400:ASN:HD21	1.47	0.79
1:DN:239:THR:HG23	1:DN:400:ASN:HD21	1.47	0.79
1:CT:239:THR:HG23	1:CT:400:ASN:HD21	1.47	0.79
1:Y1:239:THR:HG23	1:Y1:400:ASN:HD21	1.47	0.79
1:Z9:239:THR:HG23	1:Z9:400:ASN:HD21	1.47	0.78
1:S5:239:THR:HG23	1:S5:400:ASN:HD21	1.47	0.78
1:aW:239:THR:HG23	1:aW:400:ASN:HD21	1.47	0.78
1:Z9:68:THR:HG21	1:Z9:452:VAL:HG22	1.65	0.78
1:TP:239:THR:HG23	1:TP:400:ASN:HD21	1.47	0.78
1:UH:239:THR:HG23	1:UH:400:ASN:HD21	1.47	0.78
1:Y1:68:THR:HG21	1:Y1:452:VAL:HG22	1.66	0.78
1:MO:239:THR:HG23	1:MO:400:ASN:HD21	1.47	0.78
1:aW:68:THR:HG21	1:aW:452:VAL:HG22	1.66	0.78
1:dC:68:THR:HG21	1:dC:452:VAL:HG22	1.65	0.78
1:NI:239:THR:HG23	1:NI:400:ASN:HD21	1.47	0.78
1:OA:239:THR:HG23	1:OA:400:ASN:HD21	1.47	0.78
1:cV:68:THR:HG21	1:cV:452:VAL:HG22	1.66	0.77
1:S5:68:THR:HG21	1:S5:452:VAL:HG22	1.66	0.77
1:WG:68:THR:HG21	1:WG:452:VAL:HG22	1.66	0.77
1:UH:68:THR:HG21	1:UH:452:VAL:HG22	1.65	0.77
1:TP:68:THR:HG21	1:TP:452:VAL:HG22	1.66	0.77
1:VR:68:THR:HG21	1:VR:452:VAL:HG22	1.66	0.77
1:bS:68:THR:HG21	1:bS:452:VAL:HG22	1.66	0.77
1:g6:68:THR:HG21	1:g6:452:VAL:HG22	1.66	0.77
1:fK:68:THR:HG21	1:fK:452:VAL:HG22	1.66	0.77
1:XM:68:THR:HG21	1:XM:452:VAL:HG22	1.65	0.77
1:e8:68:THR:HG21	1:e8:452:VAL:HG22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:68:THR:HG21	1:JD:452:VAL:HG22	1.65	0.77
1:S5:332:LYS:N	1:S5:332:LYS:HD2	2.00	0.77
1:KE:86:LEU:HD21	1:KE:434:LEU:HB3	1.67	0.77
1:LF:86:LEU:HD21	1:LF:434:LEU:HB3	1.67	0.77
1:UH:332:LYS:HD2	1:UH:332:LYS:N	2.00	0.77
1:TP:332:LYS:N	1:TP:332:LYS:HD2	2.00	0.77
1:aW:332:LYS:N	1:aW:332:LYS:HD2	2.00	0.77
1:I3:86:LEU:HD21	1:I3:434:LEU:HB3	1.67	0.77
1:dC:332:LYS:N	1:dC:332:LYS:HD2	2.00	0.77
1:JD:86:LEU:HD21	1:JD:434:LEU:HB3	1.67	0.77
1:JD:268:ASN:HD22	1:HL:202:GLU:HB2	1.50	0.77
1:KE:68:THR:HG21	1:KE:452:VAL:HG22	1.66	0.77
1:BJ:86:LEU:HD21	1:BJ:434:LEU:HB3	1.67	0.77
1:HL:86:LEU:HD21	1:HL:434:LEU:HB3	1.67	0.77
1:GQ:86:LEU:HD21	1:GQ:434:LEU:HB3	1.67	0.77
1:cV:332:LYS:HD2	1:cV:332:LYS:N	2.00	0.77
1:I3:68:THR:HG21	1:I3:452:VAL:HG22	1.66	0.76
1:A7:86:LEU:HD21	1:A7:434:LEU:HB3	1.68	0.76
1:Z9:332:LYS:N	1:Z9:332:LYS:HD2	2.00	0.76
1:OA:68:THR:HG21	1:OA:452:VAL:HG22	1.66	0.76
1:LF:68:THR:HG21	1:LF:452:VAL:HG22	1.66	0.76
1:bS:332:LYS:N	1:bS:332:LYS:HD2	2.00	0.76
1:CT:86:LEU:HD21	1:CT:434:LEU:HB3	1.67	0.76
1:Y1:89:LEU:HD12	1:Y1:434:LEU:HD12	1.67	0.76
1:Y1:332:LYS:HD2	1:Y1:332:LYS:N	2.00	0.76
1:g6:86:LEU:HD21	1:g6:434:LEU:HB3	1.67	0.76
1:e8:86:LEU:HD21	1:e8:434:LEU:HB3	1.67	0.76
1:Z9:89:LEU:HD12	1:Z9:434:LEU:HD12	1.67	0.76
1:NI:68:THR:HG21	1:NI:452:VAL:HG22	1.66	0.76
1:fK:86:LEU:HD21	1:fK:434:LEU:HB3	1.67	0.76
1:HL:68:THR:HG21	1:HL:452:VAL:HG22	1.66	0.76
1:S5:89:LEU:HD12	1:S5:434:LEU:HD12	1.67	0.76
1:MO:68:THR:HG21	1:MO:452:VAL:HG22	1.66	0.76
1:MO:86:LEU:HD21	1:MO:434:LEU:HB3	1.67	0.76
1:TP:89:LEU:HD12	1:TP:434:LEU:HD12	1.67	0.76
1:GQ:68:THR:HG21	1:GQ:452:VAL:HG22	1.66	0.76
1:PU:68:THR:HG21	1:PU:452:VAL:HG22	1.66	0.76
1:PU:86:LEU:HD21	1:PU:434:LEU:HB3	1.67	0.76
1:aW:89:LEU:HD12	1:aW:434:LEU:HD12	1.67	0.76
1:UH:89:LEU:HD12	1:UH:434:LEU:HD12	1.67	0.76
1:Q2:68:THR:HG21	1:Q2:452:VAL:HG22	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:86:LEU:HD21	1:Q2:434:LEU:HB3	1.67	0.76
1:FB:86:LEU:HD21	1:FB:434:LEU:HB3	1.67	0.76
1:NI:86:LEU:HD21	1:NI:434:LEU:HB3	1.67	0.76
1:DN:86:LEU:HD21	1:DN:434:LEU:HB3	1.67	0.76
1:I3:237:ILE:HG12	1:I3:300:ARG:HG3	1.68	0.76
1:R4:68:THR:HG21	1:R4:452:VAL:HG22	1.66	0.76
1:R4:86:LEU:HD21	1:R4:434:LEU:HB3	1.67	0.76
1:HL:237:ILE:HG12	1:HL:300:ARG:HG3	1.68	0.76
1:GQ:237:ILE:HG12	1:GQ:300:ARG:HG3	1.68	0.76
1:PU:89:LEU:HD12	1:PU:434:LEU:HD12	1.67	0.76
1:EX:86:LEU:HD21	1:EX:434:LEU:HB3	1.67	0.76
1:Q2:89:LEU:HD12	1:Q2:434:LEU:HD12	1.67	0.76
1:I3:76:GLN:O	1:I3:80:LYS:HG2	1.86	0.76
1:R4:89:LEU:HD12	1:R4:434:LEU:HD12	1.67	0.76
1:S5:76:GLN:O	1:S5:80:LYS:HG2	1.86	0.76
1:g6:237:ILE:HG12	1:g6:300:ARG:HG3	1.68	0.76
1:A7:68:THR:HG21	1:A7:452:VAL:HG22	1.66	0.76
1:e8:237:ILE:HG12	1:e8:300:ARG:HG3	1.68	0.76
1:UH:86:LEU:HD21	1:UH:434:LEU:HB3	1.67	0.76
1:DN:76:GLN:O	1:DN:80:LYS:HG2	1.86	0.76
1:TP:86:LEU:HD21	1:TP:434:LEU:HB3	1.67	0.76
1:GQ:76:GLN:O	1:GQ:80:LYS:HG2	1.86	0.76
1:bS:86:LEU:HD21	1:bS:434:LEU:HB3	1.67	0.76
1:CT:237:ILE:HG12	1:CT:300:ARG:HG3	1.68	0.76
1:Y1:76:GLN:O	1:Y1:80:LYS:HG2	1.86	0.76
1:S5:86:LEU:HD21	1:S5:434:LEU:HB3	1.67	0.76
1:OA:86:LEU:HD21	1:OA:434:LEU:HB3	1.68	0.76
1:FB:76:GLN:O	1:FB:80:LYS:HG2	1.86	0.76
1:FB:237:ILE:HG12	1:FB:300:ARG:HG3	1.68	0.76
1:BJ:68:THR:HG21	1:BJ:452:VAL:HG22	1.66	0.76
1:HL:76:GLN:O	1:HL:80:LYS:HG2	1.86	0.76
1:HL:332:LYS:N	1:HL:332:LYS:HD2	2.00	0.76
1:XM:332:LYS:HD2	1:XM:332:LYS:N	2.00	0.76
1:TP:76:GLN:O	1:TP:80:LYS:HG2	1.86	0.76
1:GQ:332:LYS:HD2	1:GQ:332:LYS:N	2.00	0.76
1:aW:76:GLN:O	1:aW:80:LYS:HG2	1.86	0.76
1:EX:76:GLN:O	1:EX:80:LYS:HG2	1.86	0.76
1:EX:237:ILE:HG12	1:EX:300:ARG:HG3	1.68	0.76
1:I3:332:LYS:HD2	1:I3:332:LYS:N	2.00	0.76
1:Z9:76:GLN:O	1:Z9:80:LYS:HG2	1.86	0.76
1:JD:76:GLN:O	1:JD:80:LYS:HG2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:237:ILE:HG12	1:JD:300:ARG:HG3	1.68	0.76
1:KE:76:GLN:O	1:KE:80:LYS:HG2	1.86	0.76
1:KE:237:ILE:HG12	1:KE:300:ARG:HG3	1.68	0.76
1:NI:237:ILE:HG12	1:NI:300:ARG:HG3	1.68	0.76
1:BJ:237:ILE:HG12	1:BJ:300:ARG:HG3	1.68	0.76
1:fK:237:ILE:HG12	1:fK:300:ARG:HG3	1.68	0.76
1:DN:68:THR:HG21	1:DN:452:VAL:HG22	1.66	0.76
1:MO:237:ILE:HG12	1:MO:300:ARG:HG3	1.68	0.76
1:CT:68:THR:HG21	1:CT:452:VAL:HG22	1.66	0.76
1:CT:76:GLN:O	1:CT:80:LYS:HG2	1.86	0.76
1:cV:86:LEU:HD21	1:cV:434:LEU:HB3	1.67	0.76
1:EX:68:THR:HG21	1:EX:452:VAL:HG22	1.65	0.76
1:A7:76:GLN:O	1:A7:80:LYS:HG2	1.86	0.76
1:A7:237:ILE:HG12	1:A7:300:ARG:HG3	1.68	0.76
1:LF:76:GLN:O	1:LF:80:LYS:HG2	1.86	0.76
1:UH:76:GLN:O	1:UH:80:LYS:HG2	1.86	0.76
1:BJ:76:GLN:O	1:BJ:80:LYS:HG2	1.86	0.76
1:XM:86:LEU:HD21	1:XM:434:LEU:HB3	1.67	0.76
1:PU:332:LYS:N	1:PU:332:LYS:HD2	2.00	0.76
1:Q2:332:LYS:N	1:Q2:332:LYS:HD2	2.00	0.75
1:OA:237:ILE:HG12	1:OA:300:ARG:HG3	1.68	0.75
1:dC:86:LEU:HD21	1:dC:434:LEU:HB3	1.67	0.75
1:LF:237:ILE:HG12	1:LF:300:ARG:HG3	1.68	0.75
1:WG:86:LEU:HD21	1:WG:434:LEU:HB3	1.67	0.75
1:fK:202:GLU:HB2	1:CT:268:ASN:HD22	1.51	0.75
1:DN:237:ILE:HG12	1:DN:300:ARG:HG3	1.68	0.75
1:PU:76:GLN:O	1:PU:80:LYS:HG2	1.86	0.75
1:Q2:76:GLN:O	1:Q2:80:LYS:HG2	1.86	0.75
1:g6:76:GLN:O	1:g6:80:LYS:HG2	1.86	0.75
1:Z9:202:GLU:HB2	1:bS:268:ASN:HD22	1.51	0.75
1:FB:68:THR:HG21	1:FB:452:VAL:HG22	1.66	0.75
1:WG:332:LYS:N	1:WG:332:LYS:HD2	2.00	0.75
1:VR:89:LEU:HD12	1:VR:434:LEU:HD12	1.67	0.75
1:g6:89:LEU:HD12	1:g6:434:LEU:HD12	1.67	0.75
1:e8:89:LEU:HD12	1:e8:434:LEU:HD12	1.67	0.75
1:fK:76:GLN:O	1:fK:80:LYS:HG2	1.86	0.75
1:fK:89:LEU:HD12	1:fK:434:LEU:HD12	1.67	0.75
1:VR:86:LEU:HD21	1:VR:434:LEU:HB3	1.67	0.75
1:Y1:86:LEU:HD21	1:Y1:434:LEU:HB3	1.67	0.75
1:R4:76:GLN:O	1:R4:80:LYS:HG2	1.86	0.75
1:e8:76:GLN:O	1:e8:80:LYS:HG2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:89:LEU:HD12	1:WG:434:LEU:HD12	1.67	0.75
1:XM:89:LEU:HD12	1:XM:434:LEU:HD12	1.67	0.75
1:MO:89:LEU:HD12	1:MO:434:LEU:HD12	1.67	0.75
1:EX:89:LEU:HD12	1:EX:434:LEU:HD12	1.67	0.75
1:R4:332:LYS:N	1:R4:332:LYS:HD2	2.00	0.75
1:R4:506:LEU:H	1:R4:506:LEU:HD12	1.52	0.75
1:Z9:86:LEU:HD21	1:Z9:434:LEU:HB3	1.67	0.75
1:OA:89:LEU:HD12	1:OA:434:LEU:HD12	1.67	0.75
1:FB:89:LEU:HD12	1:FB:434:LEU:HD12	1.67	0.75
1:JD:332:LYS:N	1:JD:332:LYS:HD2	2.00	0.75
1:KE:332:LYS:HD2	1:KE:332:LYS:N	2.00	0.75
1:NI:89:LEU:HD12	1:NI:434:LEU:HD12	1.67	0.75
1:MO:76:GLN:O	1:MO:80:LYS:HG2	1.86	0.75
1:VR:332:LYS:HD2	1:VR:332:LYS:N	2.00	0.75
1:bS:76:GLN:O	1:bS:80:LYS:HG2	1.86	0.75
1:CT:332:LYS:N	1:CT:332:LYS:HD2	2.00	0.75
1:Y1:237:ILE:HG12	1:Y1:300:ARG:HG3	1.68	0.75
1:Q2:506:LEU:H	1:Q2:506:LEU:HD12	1.52	0.75
1:LF:332:LYS:HD2	1:LF:332:LYS:N	2.00	0.75
1:NI:76:GLN:O	1:NI:80:LYS:HG2	1.86	0.75
1:DN:89:LEU:HD12	1:DN:434:LEU:HD12	1.67	0.75
1:GQ:89:LEU:HD12	1:GQ:434:LEU:HD12	1.67	0.75
1:VR:202:GLU:HB2	1:aW:268:ASN:HD22	1.51	0.75
1:bS:237:ILE:HG12	1:bS:300:ARG:HG3	1.68	0.75
1:PU:506:LEU:H	1:PU:506:LEU:HD12	1.52	0.75
1:aW:86:LEU:HD21	1:aW:434:LEU:HB3	1.67	0.75
1:Q2:237:ILE:HG12	1:Q2:300:ARG:HG3	1.68	0.75
1:R4:237:ILE:HG12	1:R4:300:ARG:HG3	1.68	0.75
1:S5:237:ILE:HG12	1:S5:300:ARG:HG3	1.68	0.75
1:Z9:237:ILE:HG12	1:Z9:300:ARG:HG3	1.68	0.75
1:FB:332:LYS:HD2	1:FB:332:LYS:N	2.00	0.75
1:dC:237:ILE:HG12	1:dC:300:ARG:HG3	1.68	0.75
1:dC:506:LEU:H	1:dC:506:LEU:HD12	1.52	0.75
1:WG:506:LEU:H	1:WG:506:LEU:HD12	1.52	0.75
1:NI:506:LEU:H	1:NI:506:LEU:HD12	1.52	0.75
1:BJ:332:LYS:N	1:BJ:332:LYS:HD2	2.00	0.75
1:HL:89:LEU:HD12	1:HL:434:LEU:HD12	1.67	0.75
1:XM:506:LEU:H	1:XM:506:LEU:HD12	1.52	0.75
1:MO:506:LEU:HD12	1:MO:506:LEU:H	1.52	0.75
1:PU:237:ILE:HG12	1:PU:300:ARG:HG3	1.68	0.75
1:cV:76:GLN:O	1:cV:80:LYS:HG2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aW:237:ILE:HG12	1:aW:300:ARG:HG3	1.68	0.75
1:EX:332:LYS:N	1:EX:332:LYS:HD2	2.00	0.75
1:Y1:506:LEU:H	1:Y1:506:LEU:HD12	1.52	0.75
1:Q2:202:GLU:HB2	1:TP:268:ASN:HD22	1.51	0.75
1:I3:89:LEU:HD12	1:I3:434:LEU:HD12	1.67	0.75
1:A7:332:LYS:N	1:A7:332:LYS:HD2	2.00	0.75
1:Z9:506:LEU:HD12	1:Z9:506:LEU:H	1.52	0.75
1:OA:76:GLN:O	1:OA:80:LYS:HG2	1.86	0.75
1:dC:76:GLN:O	1:dC:80:LYS:HG2	1.86	0.75
1:UH:506:LEU:H	1:UH:506:LEU:HD12	1.52	0.75
1:bS:506:LEU:H	1:bS:506:LEU:HD12	1.52	0.75
1:cV:506:LEU:H	1:cV:506:LEU:HD12	1.52	0.75
1:aW:506:LEU:H	1:aW:506:LEU:HD12	1.52	0.75
1:S5:506:LEU:HD12	1:S5:506:LEU:H	1.52	0.75
1:OA:506:LEU:H	1:OA:506:LEU:HD12	1.52	0.75
1:dC:89:LEU:HD12	1:dC:434:LEU:HD12	1.67	0.75
1:HL:254:LEU:HD13	1:HL:309:ILE:HD13	1.69	0.75
1:TP:237:ILE:HG12	1:TP:300:ARG:HG3	1.68	0.75
1:TP:506:LEU:HD12	1:TP:506:LEU:H	1.52	0.75
1:GQ:254:LEU:HD13	1:GQ:309:ILE:HD13	1.69	0.75
1:VR:506:LEU:H	1:VR:506:LEU:HD12	1.52	0.75
1:cV:89:LEU:HD12	1:cV:434:LEU:HD12	1.67	0.75
1:cV:237:ILE:HG12	1:cV:300:ARG:HG3	1.68	0.75
1:UH:237:ILE:HG12	1:UH:300:ARG:HG3	1.68	0.74
1:BJ:89:LEU:HD12	1:BJ:434:LEU:HD12	1.67	0.74
1:bS:89:LEU:HD12	1:bS:434:LEU:HD12	1.67	0.74
1:I3:254:LEU:HD13	1:I3:309:ILE:HD13	1.69	0.74
1:g6:506:LEU:H	1:g6:506:LEU:HD12	1.52	0.74
1:A7:89:LEU:HD12	1:A7:434:LEU:HD12	1.67	0.74
1:e8:506:LEU:H	1:e8:506:LEU:HD12	1.52	0.74
1:JD:89:LEU:HD12	1:JD:434:LEU:HD12	1.67	0.74
1:KE:89:LEU:HD12	1:KE:434:LEU:HD12	1.67	0.74
1:LF:89:LEU:HD12	1:LF:434:LEU:HD12	1.67	0.74
1:fK:506:LEU:H	1:fK:506:LEU:HD12	1.52	0.74
1:DN:332:LYS:N	1:DN:332:LYS:HD2	2.00	0.74
1:MO:332:LYS:N	1:MO:332:LYS:HD2	2.00	0.74
1:CT:89:LEU:HD12	1:CT:434:LEU:HD12	1.67	0.74
1:I3:230:VAL:HG22	1:I3:344:ARG:CG	2.18	0.74
1:NI:202:GLU:HB2	1:PU:268:ASN:HD22	1.51	0.74
1:g6:332:LYS:HD2	1:g6:332:LYS:N	2.00	0.74
1:A7:506:LEU:HD12	1:A7:506:LEU:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:237:ILE:HG12	1:WG:300:ARG:HG3	1.68	0.74
1:NI:332:LYS:N	1:NI:332:LYS:HD2	2.00	0.74
1:BJ:506:LEU:H	1:BJ:506:LEU:HD12	1.52	0.74
1:HL:230:VAL:HG22	1:HL:344:ARG:CG	2.18	0.74
1:GQ:230:VAL:HG22	1:GQ:344:ARG:CG	2.18	0.74
1:VR:76:GLN:O	1:VR:80:LYS:HG2	1.86	0.74
1:VR:237:ILE:HG12	1:VR:300:ARG:HG3	1.68	0.74
1:CT:506:LEU:HD12	1:CT:506:LEU:H	1.52	0.74
1:Y1:254:LEU:HD13	1:Y1:309:ILE:HD13	1.69	0.74
1:Q2:230:VAL:HG22	1:Q2:344:ARG:CG	2.18	0.74
1:S5:230:VAL:HG22	1:S5:344:ARG:CG	2.18	0.74
1:Z9:254:LEU:HD13	1:Z9:309:ILE:HD13	1.69	0.74
1:LF:230:VAL:HG22	1:LF:344:ARG:CG	2.18	0.74
1:NI:230:VAL:HG22	1:NI:344:ARG:CG	2.18	0.74
1:HL:268:ASN:HD22	1:EX:202:GLU:HB2	1.52	0.74
1:MO:230:VAL:HG22	1:MO:344:ARG:CG	2.18	0.74
1:MO:254:LEU:HD13	1:MO:309:ILE:HD13	1.69	0.74
1:Y1:48:MET:HE1	1:Z9:438:ARG:HB3	1.69	0.74
1:R4:230:VAL:HG22	1:R4:344:ARG:CG	2.18	0.74
1:e8:332:LYS:HD2	1:e8:332:LYS:N	2.00	0.74
1:OA:254:LEU:HD13	1:OA:309:ILE:HD13	1.69	0.74
1:OA:332:LYS:HD2	1:OA:332:LYS:N	2.00	0.74
1:WG:76:GLN:O	1:WG:80:LYS:HG2	1.86	0.74
1:WG:230:VAL:HG22	1:WG:344:ARG:CG	2.18	0.74
1:NI:254:LEU:HD13	1:NI:309:ILE:HD13	1.69	0.74
1:fK:332:LYS:N	1:fK:332:LYS:HD2	2.00	0.74
1:XM:230:VAL:HG22	1:XM:344:ARG:CG	2.18	0.74
1:XM:237:ILE:HG12	1:XM:300:ARG:HG3	1.68	0.74
1:TP:230:VAL:HG22	1:TP:344:ARG:CG	2.18	0.74
1:VR:230:VAL:HG22	1:VR:344:ARG:CG	2.18	0.74
1:PU:230:VAL:HG22	1:PU:344:ARG:CG	2.18	0.74
1:aW:254:LEU:HD13	1:aW:309:ILE:HD13	1.69	0.74
1:OA:230:VAL:HG22	1:OA:344:ARG:CG	2.18	0.74
1:JD:230:VAL:HG22	1:JD:344:ARG:CG	2.18	0.74
1:JD:506:LEU:HD12	1:JD:506:LEU:H	1.52	0.74
1:KE:230:VAL:HG22	1:KE:344:ARG:CG	2.18	0.74
1:UH:230:VAL:HG22	1:UH:344:ARG:CG	2.18	0.74
1:bS:254:LEU:HD13	1:bS:309:ILE:HD13	1.69	0.74
1:dC:254:LEU:HD13	1:dC:309:ILE:HD13	1.69	0.74
1:BJ:202:GLU:HB2	1:EX:268:ASN:HD22	1.53	0.74
1:XM:76:GLN:O	1:XM:80:LYS:HG2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:268:ASN:HD22	1:CT:202:GLU:HB2	1.52	0.74
1:bS:230:VAL:HG22	1:bS:344:ARG:CG	2.18	0.74
1:cV:254:LEU:HD13	1:cV:309:ILE:HD13	1.69	0.74
1:FB:230:VAL:HG22	1:FB:344:ARG:CG	2.18	0.74
1:KE:506:LEU:H	1:KE:506:LEU:HD12	1.52	0.74
1:VR:254:LEU:HD13	1:VR:309:ILE:HD13	1.69	0.74
1:A7:254:LEU:HD13	1:A7:309:ILE:HD13	1.69	0.74
1:dC:230:VAL:HG22	1:dC:344:ARG:CG	2.18	0.74
1:LF:506:LEU:H	1:LF:506:LEU:HD12	1.52	0.74
1:WG:254:LEU:HD13	1:WG:309:ILE:HD13	1.69	0.74
1:BJ:254:LEU:HD13	1:BJ:309:ILE:HD13	1.69	0.74
1:DN:230:VAL:HG22	1:DN:344:ARG:CG	2.18	0.74
1:CT:254:LEU:HD13	1:CT:309:ILE:HD13	1.69	0.74
1:cV:230:VAL:HG22	1:cV:344:ARG:CG	2.18	0.74
1:aW:230:VAL:HG22	1:aW:344:ARG:CG	2.18	0.74
1:EX:230:VAL:HG22	1:EX:344:ARG:CG	2.18	0.74
1:S5:254:LEU:HD13	1:S5:309:ILE:HD13	1.69	0.73
1:e8:230:VAL:HG22	1:e8:344:ARG:CG	2.18	0.73
1:OA:268:ASN:HD22	1:JD:202:GLU:HB2	1.53	0.73
1:JD:254:LEU:HD13	1:JD:309:ILE:HD13	1.69	0.73
1:UH:254:LEU:HD13	1:UH:309:ILE:HD13	1.69	0.73
1:UH:268:ASN:HD22	1:PU:202:GLU:HB2	1.53	0.73
1:XM:254:LEU:HD13	1:XM:309:ILE:HD13	1.69	0.73
1:Y1:230:VAL:HG22	1:Y1:344:ARG:CG	2.18	0.73
1:Z9:230:VAL:HG22	1:Z9:344:ARG:CG	2.18	0.73
1:DN:254:LEU:HD13	1:DN:309:ILE:HD13	1.69	0.73
1:TP:254:LEU:HD13	1:TP:309:ILE:HD13	1.69	0.73
1:g6:230:VAL:HG22	1:g6:344:ARG:CG	2.18	0.73
1:KE:254:LEU:HD13	1:KE:309:ILE:HD13	1.69	0.73
1:fK:230:VAL:HG22	1:fK:344:ARG:CG	2.18	0.73
1:g6:268:ASN:HD22	1:bS:202:GLU:HB2	1.53	0.73
1:FB:202:GLU:HB2	1:GQ:268:ASN:HD22	1.53	0.73
1:LF:254:LEU:HD13	1:LF:309:ILE:HD13	1.69	0.73
1:HL:438:ARG:HB3	1:GQ:48:MET:HE1	1.69	0.73
1:EX:254:LEU:HD13	1:EX:309:ILE:HD13	1.69	0.73
1:KE:268:ASN:HD22	1:GQ:202:GLU:HB2	1.54	0.73
1:EX:506:LEU:H	1:EX:506:LEU:HD12	1.52	0.73
1:e8:254:LEU:HD13	1:e8:309:ILE:HD13	1.69	0.73
1:FB:506:LEU:H	1:FB:506:LEU:HD12	1.52	0.73
1:WG:48:MET:HE1	1:VR:438:ARG:HB3	1.70	0.73
1:UH:113:GLN:OE1	1:UH:413:GLY:HA3	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:64:ALA:O	1:I3:68:THR:HG22	1.89	0.73
1:A7:230:VAL:HG22	1:A7:344:ARG:CG	2.18	0.73
1:FB:254:LEU:HD13	1:FB:309:ILE:HD13	1.69	0.73
1:BJ:230:VAL:HG22	1:BJ:344:ARG:CG	2.18	0.73
1:fK:254:LEU:HD13	1:fK:309:ILE:HD13	1.69	0.73
1:HL:64:ALA:O	1:HL:68:THR:HG22	1.89	0.73
1:GQ:64:ALA:O	1:GQ:68:THR:HG22	1.89	0.73
1:CT:230:VAL:HG22	1:CT:344:ARG:CG	2.18	0.73
1:S5:113:GLN:OE1	1:S5:413:GLY:HA3	1.89	0.73
1:e8:64:ALA:O	1:e8:68:THR:HG22	1.89	0.73
1:NI:70:ASP:O	1:NI:74:ILE:HG13	1.89	0.73
1:DN:506:LEU:H	1:DN:506:LEU:HD12	1.52	0.73
1:TP:113:GLN:OE1	1:TP:413:GLY:HA3	1.89	0.73
1:TP:202:GLU:HB2	1:VR:268:ASN:HD22	1.54	0.73
1:Q2:64:ALA:O	1:Q2:68:THR:HG22	1.89	0.73
1:g6:64:ALA:O	1:g6:68:THR:HG22	1.89	0.73
1:g6:254:LEU:HD13	1:g6:309:ILE:HD13	1.69	0.73
1:OA:70:ASP:O	1:OA:74:ILE:HG13	1.89	0.73
1:KE:64:ALA:O	1:KE:68:THR:HG22	1.89	0.73
1:fK:64:ALA:O	1:fK:68:THR:HG22	1.89	0.73
1:MO:64:ALA:O	1:MO:68:THR:HG22	1.89	0.73
1:PU:64:ALA:O	1:PU:68:THR:HG22	1.89	0.73
1:Y1:113:GLN:OE1	1:Y1:413:GLY:HA3	1.89	0.72
1:R4:64:ALA:O	1:R4:68:THR:HG22	1.89	0.72
1:R4:113:GLN:OE1	1:R4:413:GLY:HA3	1.89	0.72
1:A7:70:ASP:O	1:A7:74:ILE:HG13	1.89	0.72
1:Z9:48:MET:HE1	1:aW:438:ARG:HB3	1.71	0.72
1:Z9:113:GLN:OE1	1:Z9:413:GLY:HA3	1.89	0.72
1:LF:64:ALA:O	1:LF:68:THR:HG22	1.89	0.72
1:NI:64:ALA:O	1:NI:68:THR:HG22	1.89	0.72
1:BJ:64:ALA:O	1:BJ:68:THR:HG22	1.89	0.72
1:BJ:70:ASP:O	1:BJ:74:ILE:HG13	1.89	0.72
1:MO:70:ASP:O	1:MO:74:ILE:HG13	1.89	0.72
1:CT:64:ALA:O	1:CT:68:THR:HG22	1.89	0.72
1:CT:70:ASP:O	1:CT:74:ILE:HG13	1.89	0.72
1:PU:254:LEU:HD13	1:PU:309:ILE:HD13	1.69	0.72
1:aW:113:GLN:OE1	1:aW:413:GLY:HA3	1.89	0.72
1:Q2:254:LEU:HD13	1:Q2:309:ILE:HD13	1.69	0.72
1:I3:506:LEU:H	1:I3:506:LEU:HD12	1.52	0.72
1:g6:70:ASP:O	1:g6:74:ILE:HG13	1.89	0.72
1:A7:64:ALA:O	1:A7:68:THR:HG22	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:64:ALA:O	1:OA:68:THR:HG22	1.89	0.72
1:JD:64:ALA:O	1:JD:68:THR:HG22	1.89	0.72
1:JD:70:ASP:O	1:JD:74:ILE:HG13	1.89	0.72
1:LF:70:ASP:O	1:LF:74:ILE:HG13	1.89	0.72
1:fK:70:ASP:O	1:fK:74:ILE:HG13	1.89	0.72
1:Q2:113:GLN:OE1	1:Q2:413:GLY:HA3	1.89	0.72
1:Z9:268:ASN:HD22	1:WG:202:GLU:HB2	1.54	0.72
1:VR:64:ALA:O	1:VR:68:THR:HG22	1.89	0.72
1:PU:113:GLN:OE1	1:PU:413:GLY:HA3	1.89	0.72
1:e8:70:ASP:O	1:e8:74:ILE:HG13	1.89	0.72
1:FB:64:ALA:O	1:FB:68:THR:HG22	1.89	0.72
1:KE:70:ASP:O	1:KE:74:ILE:HG13	1.89	0.72
1:VR:70:ASP:O	1:VR:74:ILE:HG13	1.89	0.72
1:Y1:64:ALA:O	1:Y1:68:THR:HG22	1.89	0.72
1:Q2:70:ASP:O	1:Q2:74:ILE:HG13	1.89	0.72
1:I3:438:ARG:HB3	1:HL:48:MET:HE1	1.70	0.72
1:R4:70:ASP:O	1:R4:74:ILE:HG13	1.89	0.72
1:R4:254:LEU:HD13	1:R4:309:ILE:HD13	1.69	0.72
1:S5:64:ALA:O	1:S5:68:THR:HG22	1.89	0.72
1:Z9:64:ALA:O	1:Z9:68:THR:HG22	1.89	0.72
1:WG:64:ALA:O	1:WG:68:THR:HG22	1.89	0.72
1:WG:70:ASP:O	1:WG:74:ILE:HG13	1.89	0.72
1:HL:506:LEU:HD12	1:HL:506:LEU:H	1.52	0.72
1:XM:70:ASP:O	1:XM:74:ILE:HG13	1.89	0.72
1:cV:64:ALA:O	1:cV:68:THR:HG22	1.89	0.72
1:aW:64:ALA:O	1:aW:68:THR:HG22	1.89	0.72
1:Y1:268:ASN:HD22	1:XM:202:GLU:HB2	1.54	0.72
1:NI:438:ARG:HB3	1:MO:48:MET:HE1	1.70	0.72
1:XM:64:ALA:O	1:XM:68:THR:HG22	1.89	0.72
1:TP:64:ALA:O	1:TP:68:THR:HG22	1.89	0.72
1:GQ:506:LEU:H	1:GQ:506:LEU:HD12	1.52	0.72
1:bS:64:ALA:O	1:bS:68:THR:HG22	1.89	0.72
1:Y1:70:ASP:O	1:Y1:74:ILE:HG13	1.89	0.72
1:I3:268:ASN:HD22	1:DN:202:GLU:HB2	1.55	0.72
1:R4:202:GLU:HB2	1:S5:268:ASN:HD22	1.54	0.72
1:g6:438:ARG:HB3	1:fK:48:MET:HE1	1.71	0.72
1:e8:48:MET:HE1	1:fK:438:ARG:HB3	1.71	0.72
1:UH:64:ALA:O	1:UH:68:THR:HG22	1.89	0.72
1:NI:113:GLN:OE1	1:NI:413:GLY:HA3	1.89	0.72
1:PU:70:ASP:O	1:PU:74:ILE:HG13	1.89	0.72
1:EX:64:ALA:O	1:EX:68:THR:HG22	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z9:70:ASP:O	1:Z9:74:ILE:HG13	1.89	0.72
1:OA:113:GLN:OE1	1:OA:413:GLY:HA3	1.89	0.72
1:dC:64:ALA:O	1:dC:68:THR:HG22	1.89	0.72
1:LF:113:GLN:OE1	1:LF:413:GLY:HA3	1.89	0.72
1:XM:113:GLN:OE1	1:XM:413:GLY:HA3	1.89	0.72
1:DN:64:ALA:O	1:DN:68:THR:HG22	1.89	0.72
1:VR:113:GLN:OE1	1:VR:413:GLY:HA3	1.89	0.72
1:FB:70:ASP:O	1:FB:74:ILE:HG13	1.89	0.72
1:FB:113:GLN:OE1	1:FB:413:GLY:HA3	1.89	0.72
1:JD:113:GLN:OE1	1:JD:413:GLY:HA3	1.89	0.72
1:DN:113:GLN:OE1	1:DN:413:GLY:HA3	1.89	0.72
1:bS:438:ARG:HB3	1:cV:48:MET:HE1	1.72	0.72
1:CT:108:SER:O	1:CT:112:ILE:HG13	1.90	0.72
1:EX:113:GLN:OE1	1:EX:413:GLY:HA3	1.89	0.72
1:e8:202:GLU:HB2	1:BJ:268:ASN:HD22	1.55	0.72
1:KE:113:GLN:OE1	1:KE:413:GLY:HA3	1.89	0.72
1:WG:113:GLN:OE1	1:WG:413:GLY:HA3	1.89	0.72
1:MO:113:GLN:OE1	1:MO:413:GLY:HA3	1.89	0.72
1:GQ:70:ASP:O	1:GQ:74:ILE:HG13	1.89	0.72
1:PU:108:SER:O	1:PU:112:ILE:HG13	1.90	0.72
1:aW:70:ASP:O	1:aW:74:ILE:HG13	1.89	0.72
1:Q2:108:SER:O	1:Q2:112:ILE:HG13	1.90	0.71
1:A7:75:ILE:HD12	1:A7:441:LEU:HD22	1.72	0.71
1:A7:113:GLN:OE1	1:A7:413:GLY:HA3	1.89	0.71
1:BJ:108:SER:O	1:BJ:112:ILE:HG13	1.90	0.71
1:BJ:113:GLN:OE1	1:BJ:413:GLY:HA3	1.89	0.71
1:I3:70:ASP:O	1:I3:74:ILE:HG13	1.89	0.71
1:S5:108:SER:O	1:S5:112:ILE:HG13	1.90	0.71
1:g6:75:ILE:HD12	1:g6:441:LEU:HD22	1.72	0.71
1:e8:75:ILE:HD12	1:e8:441:LEU:HD22	1.72	0.71
1:FB:75:ILE:HD12	1:FB:441:LEU:HD22	1.72	0.71
1:FB:108:SER:O	1:FB:112:ILE:HG13	1.90	0.71
1:BJ:75:ILE:HD12	1:BJ:441:LEU:HD22	1.72	0.71
1:DN:70:ASP:O	1:DN:74:ILE:HG13	1.89	0.71
1:CT:75:ILE:HD12	1:CT:441:LEU:HD22	1.72	0.71
1:EX:70:ASP:O	1:EX:74:ILE:HG13	1.89	0.71
1:EX:75:ILE:HD12	1:EX:441:LEU:HD22	1.72	0.71
1:A7:108:SER:O	1:A7:112:ILE:HG13	1.90	0.71
1:dC:48:MET:HE1	1:cV:438:ARG:HB3	1.72	0.71
1:JD:108:SER:O	1:JD:112:ILE:HG13	1.90	0.71
1:KE:108:SER:O	1:KE:112:ILE:HG13	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:75:ILE:HD12	1:fK:441:LEU:HD22	1.72	0.71
1:HL:70:ASP:O	1:HL:74:ILE:HG13	1.89	0.71
1:DN:75:ILE:HD12	1:DN:441:LEU:HD22	1.72	0.71
1:VR:108:SER:O	1:VR:112:ILE:HG13	1.90	0.71
1:bS:108:SER:O	1:bS:112:ILE:HG13	1.90	0.71
1:bS:113:GLN:OE1	1:bS:413:GLY:HA3	1.89	0.71
1:CT:113:GLN:OE1	1:CT:413:GLY:HA3	1.89	0.71
1:R4:108:SER:O	1:R4:112:ILE:HG13	1.90	0.71
1:S5:48:MET:HE1	1:TP:438:ARG:HB3	1.71	0.71
1:g6:113:GLN:OE1	1:g6:413:GLY:HA3	1.89	0.71
1:e8:113:GLN:OE1	1:e8:413:GLY:HA3	1.89	0.71
1:JD:438:ARG:HB3	1:KE:48:MET:HE1	1.71	0.71
1:UH:70:ASP:O	1:UH:74:ILE:HG13	1.89	0.71
1:UH:108:SER:O	1:UH:112:ILE:HG13	1.90	0.71
1:TP:108:SER:O	1:TP:112:ILE:HG13	1.90	0.71
1:cV:108:SER:O	1:cV:112:ILE:HG13	1.90	0.71
1:EX:108:SER:O	1:EX:112:ILE:HG13	1.90	0.71
1:dC:75:ILE:HD12	1:dC:441:LEU:HD22	1.72	0.71
1:LF:108:SER:O	1:LF:112:ILE:HG13	1.90	0.71
1:WG:108:SER:O	1:WG:112:ILE:HG13	1.90	0.71
1:fK:113:GLN:OE1	1:fK:413:GLY:HA3	1.89	0.71
1:TP:70:ASP:O	1:TP:74:ILE:HG13	1.89	0.71
1:GQ:75:ILE:HD12	1:GQ:441:LEU:HD22	1.72	0.71
1:bS:75:ILE:HD12	1:bS:441:LEU:HD22	1.72	0.71
1:Y1:108:SER:O	1:Y1:112:ILE:HG13	1.90	0.71
1:e8:108:SER:O	1:e8:112:ILE:HG13	1.90	0.71
1:Z9:108:SER:O	1:Z9:112:ILE:HG13	1.90	0.71
1:dC:108:SER:O	1:dC:112:ILE:HG13	1.90	0.71
1:WG:417:LEU:HD11	1:WG:421:MET:HE2	1.73	0.71
1:XM:108:SER:O	1:XM:112:ILE:HG13	1.90	0.71
1:DN:108:SER:O	1:DN:112:ILE:HG13	1.90	0.71
1:cV:75:ILE:HD12	1:cV:441:LEU:HD22	1.72	0.71
1:cV:113:GLN:OE1	1:cV:413:GLY:HA3	1.89	0.71
1:Y1:417:LEU:HD11	1:Y1:421:MET:HE2	1.73	0.71
1:I3:75:ILE:HD12	1:I3:441:LEU:HD22	1.72	0.71
1:S5:70:ASP:O	1:S5:74:ILE:HG13	1.89	0.71
1:A7:48:MET:HE1	1:BJ:438:ARG:HB3	1.72	0.71
1:OA:460:VAL:HG21	1:NI:16:VAL:HG21	1.73	0.71
1:LF:202:GLU:HB2	1:MO:268:ASN:HD22	1.56	0.71
1:UH:438:ARG:HB3	1:TP:48:MET:HE1	1.71	0.71
1:XM:417:LEU:HD11	1:XM:421:MET:HE2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:417:LEU:HD11	1:VR:421:MET:HE2	1.73	0.71
1:Q2:16:VAL:HG21	1:PU:460:VAL:HG21	1.73	0.71
1:dC:113:GLN:OE1	1:dC:413:GLY:HA3	1.89	0.71
1:KE:202:GLU:HB2	1:NI:268:ASN:HD22	1.56	0.71
1:fK:108:SER:O	1:fK:112:ILE:HG13	1.90	0.71
1:HL:75:ILE:HD12	1:HL:441:LEU:HD22	1.72	0.71
1:aW:108:SER:O	1:aW:112:ILE:HG13	1.90	0.71
1:aW:417:LEU:HD11	1:aW:421:MET:HE2	1.73	0.71
1:I3:108:SER:O	1:I3:112:ILE:HG13	1.90	0.71
1:Z9:417:LEU:HD11	1:Z9:421:MET:HE2	1.73	0.71
1:HL:108:SER:O	1:HL:112:ILE:HG13	1.90	0.71
1:GQ:108:SER:O	1:GQ:112:ILE:HG13	1.90	0.71
1:bS:70:ASP:O	1:bS:74:ILE:HG13	1.89	0.71
1:S5:417:LEU:HD11	1:S5:421:MET:HE2	1.73	0.71
1:g6:108:SER:O	1:g6:112:ILE:HG13	1.90	0.71
1:Z9:75:ILE:HD12	1:Z9:441:LEU:HD22	1.72	0.71
1:FB:48:MET:HE1	1:EX:438:ARG:HB3	1.71	0.71
1:WG:4:GLN:HG2	1:VR:471:ASP:HB2	1.73	0.71
1:UH:417:LEU:HD11	1:UH:421:MET:HE2	1.73	0.71
1:cV:70:ASP:O	1:cV:74:ILE:HG13	1.89	0.71
1:Y1:75:ILE:HD12	1:Y1:441:LEU:HD22	1.72	0.70
1:Q2:438:ARG:HB3	1:R4:48:MET:HE1	1.71	0.70
1:Z9:4:GLN:HG2	1:aW:471:ASP:HB2	1.73	0.70
1:KE:460:VAL:HG21	1:LF:16:VAL:HG21	1.73	0.70
1:WG:438:ARG:HB3	1:XM:48:MET:HE1	1.72	0.70
1:TP:417:LEU:HD11	1:TP:421:MET:HE2	1.73	0.70
1:bS:417:LEU:HD11	1:bS:421:MET:HE2	1.73	0.70
1:aW:75:ILE:HD12	1:aW:441:LEU:HD22	1.72	0.70
1:Q2:460:VAL:HG21	1:R4:16:VAL:HG21	1.73	0.70
1:S5:202:GLU:HB2	1:WG:268:ASN:HD22	1.56	0.70
1:I3:460:VAL:HG21	1:HL:16:VAL:HG21	1.73	0.70
1:dC:70:ASP:O	1:dC:74:ILE:HG13	1.89	0.70
1:dC:417:LEU:HD11	1:dC:421:MET:HE2	1.73	0.70
1:KE:438:ARG:HB3	1:LF:48:MET:HE1	1.72	0.70
1:MO:108:SER:O	1:MO:112:ILE:HG13	1.90	0.70
1:cV:417:LEU:HD11	1:cV:421:MET:HE2	1.73	0.70
1:I3:113:GLN:OE1	1:I3:413:GLY:HA3	1.89	0.70
1:g6:471:ASP:HB2	1:fK:4:GLN:HG2	1.73	0.70
1:KE:75:ILE:HD12	1:KE:441:LEU:HD22	1.72	0.70
1:LF:75:ILE:HD12	1:LF:441:LEU:HD22	1.72	0.70
1:S5:16:VAL:HG21	1:TP:460:VAL:HG21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:417:LEU:HD11	1:g6:421:MET:HE2	1.73	0.70
1:e8:417:LEU:HD11	1:e8:421:MET:HE2	1.73	0.70
1:OA:108:SER:O	1:OA:112:ILE:HG13	1.90	0.70
1:JD:75:ILE:HD12	1:JD:441:LEU:HD22	1.72	0.70
1:NI:108:SER:O	1:NI:112:ILE:HG13	1.90	0.70
1:NI:460:VAL:HG21	1:MO:16:VAL:HG21	1.74	0.70
1:fK:268:ASN:HD22	1:cV:202:GLU:HB2	1.57	0.70
1:Z9:16:VAL:HG21	1:aW:460:VAL:HG21	1.73	0.70
1:WG:16:VAL:HG21	1:VR:460:VAL:HG21	1.74	0.70
1:UH:460:VAL:HG21	1:TP:16:VAL:HG21	1.74	0.70
1:fK:417:LEU:HD11	1:fK:421:MET:HE2	1.73	0.70
1:HL:113:GLN:OE1	1:HL:413:GLY:HA3	1.89	0.70
1:GQ:113:GLN:OE1	1:GQ:413:GLY:HA3	1.89	0.70
1:I3:471:ASP:HB2	1:HL:4:GLN:HG2	1.72	0.70
1:WG:460:VAL:HG21	1:XM:16:VAL:HG21	1.73	0.70
1:Y1:4:GLN:HG2	1:Z9:471:ASP:HB2	1.74	0.70
1:Y1:202:GLU:HB2	1:cV:268:ASN:HD22	1.56	0.70
1:JD:460:VAL:HG21	1:KE:16:VAL:HG21	1.74	0.70
1:WG:75:ILE:HD12	1:WG:441:LEU:HD22	1.72	0.70
1:UH:75:ILE:HD12	1:UH:441:LEU:HD22	1.72	0.70
1:PU:417:LEU:HD11	1:PU:421:MET:HE2	1.73	0.70
1:Q2:417:LEU:HD11	1:Q2:421:MET:HE2	1.73	0.70
1:XM:75:ILE:HD12	1:XM:441:LEU:HD22	1.72	0.70
1:TP:75:ILE:HD12	1:TP:441:LEU:HD22	1.72	0.70
1:VR:75:ILE:HD12	1:VR:441:LEU:HD22	1.72	0.70
1:Q2:48:MET:HE1	1:PU:438:ARG:HB3	1.72	0.70
1:S5:75:ILE:HD12	1:S5:441:LEU:HD22	1.72	0.70
1:BJ:417:LEU:HD11	1:BJ:421:MET:HE2	1.73	0.70
1:R4:417:LEU:HD11	1:R4:421:MET:HE2	1.73	0.69
1:BJ:48:MET:HE1	1:CT:438:ARG:HB3	1.73	0.69
1:HL:417:LEU:HD11	1:HL:421:MET:HE2	1.73	0.69
1:CT:417:LEU:HD11	1:CT:421:MET:HE2	1.73	0.69
1:I3:417:LEU:HD11	1:I3:421:MET:HE2	1.73	0.69
1:g6:460:VAL:HG21	1:fK:16:VAL:HG21	1.72	0.69
1:KE:417:LEU:HD11	1:KE:421:MET:HE2	1.73	0.69
1:GQ:417:LEU:HD11	1:GQ:421:MET:HE2	1.73	0.69
1:A7:417:LEU:HD11	1:A7:421:MET:HE2	1.73	0.69
1:JD:417:LEU:HD11	1:JD:421:MET:HE2	1.73	0.69
1:HL:460:VAL:HG21	1:GQ:16:VAL:HG21	1.74	0.69
1:Q2:75:ILE:HD12	1:Q2:441:LEU:HD22	1.72	0.69
1:LF:417:LEU:HD11	1:LF:421:MET:HE2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:75:ILE:HD12	1:PU:441:LEU:HD22	1.72	0.69
1:Q2:268:ASN:HD22	1:MO:202:GLU:HB2	1.56	0.69
1:R4:75:ILE:HD12	1:R4:441:LEU:HD22	1.72	0.69
1:FB:417:LEU:HD11	1:FB:421:MET:HE2	1.73	0.69
1:DN:417:LEU:HD11	1:DN:421:MET:HE2	1.73	0.69
1:Q2:199:VAL:HG11	1:Q2:228:THR:HG22	1.75	0.69
1:OA:417:LEU:HD11	1:OA:421:MET:HE2	1.73	0.69
1:WG:199:VAL:HG11	1:WG:228:THR:HG22	1.75	0.69
1:NI:75:ILE:HD12	1:NI:441:LEU:HD22	1.72	0.69
1:NI:471:ASP:HB2	1:MO:4:GLN:HG2	1.74	0.69
1:BJ:16:VAL:HG21	1:CT:460:VAL:HG21	1.73	0.69
1:fK:278:ILE:HG21	1:fK:289:ALA:HB2	1.75	0.69
1:DN:278:ILE:HG21	1:DN:289:ALA:HB2	1.75	0.69
1:VR:199:VAL:HG11	1:VR:228:THR:HG22	1.75	0.69
1:bS:471:ASP:HB2	1:cV:4:GLN:HG2	1.75	0.69
1:PU:199:VAL:HG11	1:PU:228:THR:HG22	1.75	0.69
1:EX:417:LEU:HD11	1:EX:421:MET:HE2	1.73	0.69
1:Y1:16:VAL:HG21	1:Z9:460:VAL:HG21	1.74	0.69
1:Y1:448:MET:O	1:Y1:452:VAL:HG23	1.93	0.69
1:e8:278:ILE:HG21	1:e8:289:ALA:HB2	1.75	0.69
1:FB:278:ILE:HG21	1:FB:289:ALA:HB2	1.75	0.69
1:dC:448:MET:O	1:dC:452:VAL:HG23	1.93	0.69
1:JD:199:VAL:HG11	1:JD:228:THR:HG22	1.75	0.69
1:LF:199:VAL:HG11	1:LF:228:THR:HG22	1.75	0.69
1:NI:417:LEU:HD11	1:NI:421:MET:HE2	1.73	0.69
1:fK:448:MET:O	1:fK:452:VAL:HG23	1.93	0.69
1:MO:75:ILE:HD12	1:MO:441:LEU:HD22	1.72	0.69
1:MO:417:LEU:HD11	1:MO:421:MET:HE2	1.73	0.69
1:bS:448:MET:O	1:bS:452:VAL:HG23	1.93	0.69
1:cV:448:MET:O	1:cV:452:VAL:HG23	1.93	0.69
1:EX:278:ILE:HG21	1:EX:289:ALA:HB2	1.75	0.69
1:Y1:278:ILE:HG21	1:Y1:289:ALA:HB2	1.75	0.69
1:I3:448:MET:O	1:I3:452:VAL:HG23	1.93	0.69
1:R4:199:VAL:HG11	1:R4:228:THR:HG22	1.75	0.69
1:g6:278:ILE:HG21	1:g6:289:ALA:HB2	1.75	0.69
1:g6:448:MET:O	1:g6:452:VAL:HG23	1.93	0.69
1:A7:448:MET:O	1:A7:452:VAL:HG23	1.93	0.69
1:e8:448:MET:O	1:e8:452:VAL:HG23	1.93	0.69
1:Z9:278:ILE:HG21	1:Z9:289:ALA:HB2	1.75	0.69
1:Z9:448:MET:O	1:Z9:452:VAL:HG23	1.93	0.69
1:OA:75:ILE:HD12	1:OA:441:LEU:HD22	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:448:MET:O	1:FB:452:VAL:HG23	1.93	0.69
1:dC:16:VAL:HG21	1:cV:460:VAL:HG21	1.73	0.69
1:KE:199:VAL:HG11	1:KE:228:THR:HG22	1.75	0.69
1:WG:86:LEU:CD2	1:WG:434:LEU:HB3	2.23	0.69
1:WG:448:MET:O	1:WG:452:VAL:HG23	1.93	0.69
1:UH:471:ASP:HB2	1:TP:4:GLN:HG2	1.75	0.69
1:BJ:448:MET:O	1:BJ:452:VAL:HG23	1.93	0.69
1:HL:448:MET:O	1:HL:452:VAL:HG23	1.93	0.69
1:XM:86:LEU:CD2	1:XM:434:LEU:HB3	2.23	0.69
1:XM:199:VAL:HG11	1:XM:228:THR:HG22	1.75	0.69
1:XM:448:MET:O	1:XM:452:VAL:HG23	1.93	0.69
1:DN:448:MET:O	1:DN:452:VAL:HG23	1.93	0.69
1:GQ:448:MET:O	1:GQ:452:VAL:HG23	1.93	0.69
1:CT:448:MET:O	1:CT:452:VAL:HG23	1.93	0.69
1:aW:278:ILE:HG21	1:aW:289:ALA:HB2	1.75	0.69
1:aW:448:MET:O	1:aW:452:VAL:HG23	1.93	0.69
1:EX:86:LEU:CD2	1:EX:434:LEU:HB3	2.23	0.69
1:EX:448:MET:O	1:EX:452:VAL:HG23	1.93	0.69
1:Q2:183:SER:HB3	1:Q2:337:TYR:CZ	2.28	0.69
1:A7:278:ILE:HG21	1:A7:289:ALA:HB2	1.75	0.69
1:JD:448:MET:O	1:JD:452:VAL:HG23	1.93	0.69
1:KE:448:MET:O	1:KE:452:VAL:HG23	1.93	0.69
1:BJ:278:ILE:HG21	1:BJ:289:ALA:HB2	1.75	0.69
1:HL:471:ASP:HB2	1:GQ:4:GLN:HG2	1.74	0.69
1:DN:86:LEU:CD2	1:DN:434:LEU:HB3	2.23	0.69
1:VR:448:MET:O	1:VR:452:VAL:HG23	1.93	0.69
1:bS:278:ILE:HG21	1:bS:289:ALA:HB2	1.75	0.69
1:PU:183:SER:HB3	1:PU:337:TYR:CZ	2.28	0.69
1:Q2:4:GLN:HG2	1:PU:471:ASP:HB2	1.75	0.69
1:R4:183:SER:HB3	1:R4:337:TYR:CZ	2.28	0.69
1:S5:4:GLN:HG2	1:TP:471:ASP:HB2	1.75	0.69
1:OA:448:MET:O	1:OA:452:VAL:HG23	1.93	0.69
1:LF:448:MET:O	1:LF:452:VAL:HG23	1.93	0.69
1:DN:460:VAL:HG21	1:EX:16:VAL:HG21	1.72	0.69
1:GQ:199:VAL:HG11	1:GQ:228:THR:HG22	1.75	0.69
1:VR:86:LEU:CD2	1:VR:434:LEU:HB3	2.23	0.69
1:bS:460:VAL:HG21	1:cV:16:VAL:HG21	1.73	0.69
1:R4:448:MET:O	1:R4:452:VAL:HG23	1.93	0.68
1:S5:448:MET:O	1:S5:452:VAL:HG23	1.93	0.68
1:dC:183:SER:HB3	1:dC:337:TYR:CZ	2.28	0.68
1:dC:199:VAL:HG11	1:dC:228:THR:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:278:ILE:HG21	1:JD:289:ALA:HB2	1.75	0.68
1:LF:278:ILE:HG21	1:LF:289:ALA:HB2	1.75	0.68
1:UH:448:MET:O	1:UH:452:VAL:HG23	1.93	0.68
1:NI:448:MET:O	1:NI:452:VAL:HG23	1.93	0.68
1:TP:448:MET:O	1:TP:452:VAL:HG23	1.93	0.68
1:cV:183:SER:HB3	1:cV:337:TYR:CZ	2.28	0.68
1:cV:199:VAL:HG11	1:cV:228:THR:HG22	1.75	0.68
1:cV:278:ILE:HG21	1:cV:289:ALA:HB2	1.75	0.68
1:Y1:183:SER:HB3	1:Y1:337:TYR:CZ	2.28	0.68
1:Q2:448:MET:O	1:Q2:452:VAL:HG23	1.93	0.68
1:S5:199:VAL:HG11	1:S5:228:THR:HG22	1.75	0.68
1:Z9:183:SER:HB3	1:Z9:337:TYR:CZ	2.28	0.68
1:OA:86:LEU:CD2	1:OA:434:LEU:HB3	2.23	0.68
1:dC:278:ILE:HG21	1:dC:289:ALA:HB2	1.75	0.68
1:JD:183:SER:HB3	1:JD:337:TYR:CZ	2.28	0.68
1:BJ:4:GLN:HG2	1:CT:471:ASP:HB2	1.75	0.68
1:HL:199:VAL:HG11	1:HL:228:THR:HG22	1.75	0.68
1:MO:199:VAL:HG11	1:MO:228:THR:HG22	1.75	0.68
1:MO:448:MET:O	1:MO:452:VAL:HG23	1.93	0.68
1:GQ:278:ILE:HG21	1:GQ:289:ALA:HB2	1.75	0.68
1:bS:199:VAL:HG11	1:bS:228:THR:HG22	1.75	0.68
1:CT:183:SER:HB3	1:CT:337:TYR:CZ	2.28	0.68
1:CT:278:ILE:HG21	1:CT:289:ALA:HB2	1.75	0.68
1:PU:448:MET:O	1:PU:452:VAL:HG23	1.93	0.68
1:Y1:359:GLN:OE1	1:Y1:359:GLN:HA	1.93	0.68
1:I3:199:VAL:HG11	1:I3:228:THR:HG22	1.75	0.68
1:S5:359:GLN:OE1	1:S5:359:GLN:HA	1.93	0.68
1:A7:183:SER:HB3	1:A7:337:TYR:CZ	2.28	0.68
1:A7:199:VAL:HG11	1:A7:228:THR:HG22	1.75	0.68
1:Z9:359:GLN:OE1	1:Z9:359:GLN:HA	1.93	0.68
1:OA:438:ARG:HB3	1:NI:48:MET:HE1	1.74	0.68
1:FB:183:SER:HB3	1:FB:337:TYR:CZ	2.28	0.68
1:KE:278:ILE:HG21	1:KE:289:ALA:HB2	1.75	0.68
1:NI:199:VAL:HG11	1:NI:228:THR:HG22	1.75	0.68
1:BJ:183:SER:HB3	1:BJ:337:TYR:CZ	2.28	0.68
1:BJ:199:VAL:HG11	1:BJ:228:THR:HG22	1.75	0.68
1:HL:278:ILE:HG21	1:HL:289:ALA:HB2	1.75	0.68
1:DN:199:VAL:HG11	1:DN:228:THR:HG22	1.75	0.68
1:TP:199:VAL:HG11	1:TP:228:THR:HG22	1.75	0.68
1:VR:278:ILE:HG21	1:VR:289:ALA:HB2	1.75	0.68
1:bS:183:SER:HB3	1:bS:337:TYR:CZ	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:359:GLN:OE1	1:bS:359:GLN:HA	1.93	0.68
1:cV:359:GLN:OE1	1:cV:359:GLN:HA	1.93	0.68
1:aW:183:SER:HB3	1:aW:337:TYR:CZ	2.28	0.68
1:EX:199:VAL:HG11	1:EX:228:THR:HG22	1.75	0.68
1:dC:359:GLN:OE1	1:dC:359:GLN:HA	1.93	0.68
1:KE:183:SER:HB3	1:KE:337:TYR:CZ	2.28	0.68
1:WG:278:ILE:HG21	1:WG:289:ALA:HB2	1.75	0.68
1:UH:359:GLN:HA	1:UH:359:GLN:OE1	1.93	0.68
1:HL:86:LEU:CD2	1:HL:434:LEU:HB3	2.23	0.68
1:DN:438:ARG:HB3	1:EX:48:MET:HE1	1.74	0.68
1:VR:359:GLN:HA	1:VR:359:GLN:OE1	1.93	0.68
1:bS:86:LEU:CD2	1:bS:434:LEU:HB3	2.23	0.68
1:I3:86:LEU:CD2	1:I3:434:LEU:HB3	2.23	0.68
1:I3:278:ILE:HG21	1:I3:289:ALA:HB2	1.75	0.68
1:S5:86:LEU:CD2	1:S5:434:LEU:HB3	2.23	0.68
1:OA:199:VAL:HG11	1:OA:228:THR:HG22	1.75	0.68
1:FB:16:VAL:HG21	1:EX:460:VAL:HG21	1.74	0.68
1:LF:183:SER:HB3	1:LF:337:TYR:CZ	2.28	0.68
1:WG:359:GLN:OE1	1:WG:359:GLN:HA	1.93	0.68
1:XM:278:ILE:HG21	1:XM:289:ALA:HB2	1.75	0.68
1:DN:183:SER:HB3	1:DN:337:TYR:CZ	2.28	0.68
1:TP:359:GLN:OE1	1:TP:359:GLN:HA	1.93	0.68
1:GQ:86:LEU:CD2	1:GQ:434:LEU:HB3	2.23	0.68
1:CT:199:VAL:HG11	1:CT:228:THR:HG22	1.75	0.68
1:aW:359:GLN:OE1	1:aW:359:GLN:HA	1.93	0.68
1:EX:183:SER:HB3	1:EX:337:TYR:CZ	2.28	0.68
1:S5:278:ILE:HG21	1:S5:289:ALA:HB2	1.75	0.68
1:e8:16:VAL:HG21	1:fK:460:VAL:HG21	1.74	0.68
1:FB:199:VAL:HG11	1:FB:228:THR:HG22	1.75	0.68
1:dC:86:LEU:CD2	1:dC:434:LEU:HB3	2.23	0.68
1:UH:199:VAL:HG11	1:UH:228:THR:HG22	1.75	0.68
1:UH:278:ILE:HG21	1:UH:289:ALA:HB2	1.75	0.68
1:TP:86:LEU:CD2	1:TP:434:LEU:HB3	2.23	0.68
1:TP:278:ILE:HG21	1:TP:289:ALA:HB2	1.75	0.68
1:PU:86:LEU:CD2	1:PU:434:LEU:HB3	2.23	0.68
1:cV:86:LEU:CD2	1:cV:434:LEU:HB3	2.23	0.68
1:JD:471:ASP:HB2	1:KE:4:GLN:HG2	1.75	0.68
1:BJ:359:GLN:OE1	1:BJ:359:GLN:HA	1.93	0.68
1:XM:359:GLN:HA	1:XM:359:GLN:OE1	1.93	0.68
1:MO:183:SER:HB3	1:MO:337:TYR:CZ	2.28	0.68
1:Q2:86:LEU:CD2	1:Q2:434:LEU:HB3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:86:LEU:CD2	1:A7:434:LEU:HB3	2.23	0.68
1:e8:4:GLN:HG2	1:fK:471:ASP:HB2	1.76	0.68
1:LF:86:LEU:CD2	1:LF:434:LEU:HB3	2.23	0.68
1:UH:86:LEU:CD2	1:UH:434:LEU:HB3	2.23	0.68
1:NI:86:LEU:CD2	1:NI:434:LEU:HB3	2.23	0.68
1:BJ:86:LEU:CD2	1:BJ:434:LEU:HB3	2.23	0.68
1:MO:86:LEU:CD2	1:MO:434:LEU:HB3	2.23	0.68
1:CT:86:LEU:CD2	1:CT:434:LEU:HB3	2.23	0.68
1:CT:359:GLN:OE1	1:CT:359:GLN:HA	1.93	0.68
1:Q2:471:ASP:HB2	1:R4:4:GLN:HG2	1.76	0.68
1:R4:86:LEU:CD2	1:R4:434:LEU:HB3	2.23	0.68
1:S5:72:MET:CE	1:S5:452:VAL:HG21	2.24	0.68
1:g6:72:MET:CE	1:g6:452:VAL:HG21	2.24	0.68
1:A7:16:VAL:HG21	1:BJ:460:VAL:HG21	1.73	0.68
1:A7:359:GLN:OE1	1:A7:359:GLN:HA	1.93	0.68
1:e8:183:SER:HB3	1:e8:337:TYR:CZ	2.28	0.68
1:OA:278:ILE:HG21	1:OA:289:ALA:HB2	1.75	0.68
1:FB:4:GLN:HG2	1:EX:471:ASP:HB2	1.75	0.68
1:fK:359:GLN:OE1	1:fK:359:GLN:HA	1.93	0.68
1:TP:72:MET:CE	1:TP:452:VAL:HG21	2.24	0.68
1:GQ:183:SER:HB3	1:GQ:337:TYR:CZ	2.28	0.68
1:Y1:199:VAL:HG11	1:Y1:228:THR:HG22	1.75	0.68
1:Q2:278:ILE:HG21	1:Q2:289:ALA:HB2	1.75	0.68
1:R4:278:ILE:HG21	1:R4:289:ALA:HB2	1.75	0.68
1:g6:359:GLN:OE1	1:g6:359:GLN:HA	1.93	0.68
1:e8:72:MET:CE	1:e8:452:VAL:HG21	2.24	0.68
1:e8:359:GLN:OE1	1:e8:359:GLN:HA	1.93	0.68
1:OA:18:SER:O	1:OA:21:THR:HG22	1.94	0.68
1:FB:86:LEU:CD2	1:FB:434:LEU:HB3	2.23	0.68
1:UH:72:MET:CE	1:UH:452:VAL:HG21	2.24	0.68
1:NI:183:SER:HB3	1:NI:337:TYR:CZ	2.28	0.68
1:NI:278:ILE:HG21	1:NI:289:ALA:HB2	1.75	0.68
1:fK:72:MET:CE	1:fK:452:VAL:HG21	2.24	0.68
1:HL:183:SER:HB3	1:HL:337:TYR:CZ	2.28	0.68
1:MO:18:SER:O	1:MO:21:THR:HG22	1.94	0.68
1:MO:278:ILE:HG21	1:MO:289:ALA:HB2	1.75	0.68
1:aW:86:LEU:CD2	1:aW:434:LEU:HB3	2.23	0.68
1:Z9:199:VAL:HG11	1:Z9:228:THR:HG22	1.75	0.67
1:JD:72:MET:CE	1:JD:452:VAL:HG21	2.24	0.67
1:KE:72:MET:CE	1:KE:452:VAL:HG21	2.24	0.67
1:LF:18:SER:O	1:LF:21:THR:HG22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:18:SER:O	1:NI:21:THR:HG22	1.95	0.67
1:fK:183:SER:HB3	1:fK:337:TYR:CZ	2.28	0.67
1:PU:278:ILE:HG21	1:PU:289:ALA:HB2	1.75	0.67
1:I3:183:SER:HB3	1:I3:337:TYR:CZ	2.28	0.67
1:g6:86:LEU:CD2	1:g6:434:LEU:HB3	2.23	0.67
1:Z9:86:LEU:CD2	1:Z9:434:LEU:HB3	2.23	0.67
1:OA:183:SER:HB3	1:OA:337:TYR:CZ	2.28	0.67
1:JD:18:SER:O	1:JD:21:THR:HG22	1.95	0.67
1:KE:18:SER:O	1:KE:21:THR:HG22	1.95	0.67
1:KE:86:LEU:CD2	1:KE:434:LEU:HB3	2.23	0.67
1:NI:72:MET:CE	1:NI:452:VAL:HG21	2.24	0.67
1:MO:72:MET:CE	1:MO:452:VAL:HG21	2.24	0.67
1:g6:183:SER:HB3	1:g6:337:TYR:CZ	2.28	0.67
1:e8:86:LEU:CD2	1:e8:434:LEU:HB3	2.23	0.67
1:LF:72:MET:CE	1:LF:452:VAL:HG21	2.24	0.67
1:fK:86:LEU:CD2	1:fK:434:LEU:HB3	2.23	0.67
1:XM:183:SER:HB3	1:XM:337:TYR:CZ	2.28	0.67
1:GQ:221:ILE:HG21	1:GQ:232:ALA:HB2	1.77	0.67
1:Y1:72:MET:CE	1:Y1:452:VAL:HG21	2.24	0.67
1:Y1:86:LEU:CD2	1:Y1:434:LEU:HB3	2.23	0.67
1:S5:221:ILE:HG21	1:S5:232:ALA:HB2	1.77	0.67
1:e8:268:ASN:HD22	1:dC:202:GLU:HB2	1.60	0.67
1:Z9:72:MET:CE	1:Z9:452:VAL:HG21	2.24	0.67
1:OA:72:MET:CE	1:OA:452:VAL:HG21	2.24	0.67
1:WG:183:SER:HB3	1:WG:337:TYR:CZ	2.28	0.67
1:HL:221:ILE:HG21	1:HL:232:ALA:HB2	1.77	0.67
1:TP:221:ILE:HG21	1:TP:232:ALA:HB2	1.77	0.67
1:GQ:18:SER:O	1:GQ:21:THR:HG22	1.95	0.67
1:PU:18:SER:O	1:PU:21:THR:HG22	1.94	0.67
1:aW:72:MET:CE	1:aW:452:VAL:HG21	2.24	0.67
1:aW:199:VAL:HG11	1:aW:228:THR:HG22	1.75	0.67
1:g6:199:VAL:HG11	1:g6:228:THR:HG22	1.75	0.67
1:JD:86:LEU:CD2	1:JD:434:LEU:HB3	2.23	0.67
1:UH:221:ILE:HG21	1:UH:232:ALA:HB2	1.77	0.67
1:HL:18:SER:O	1:HL:21:THR:HG22	1.95	0.67
1:Q2:18:SER:O	1:Q2:21:THR:HG22	1.95	0.67
1:I3:18:SER:O	1:I3:21:THR:HG22	1.94	0.67
1:I3:221:ILE:HG21	1:I3:232:ALA:HB2	1.77	0.67
1:S5:8:ASN:O	1:S5:12:MET:HG3	1.95	0.67
1:OA:221:ILE:HG21	1:OA:232:ALA:HB2	1.77	0.67
1:NI:221:ILE:HG21	1:NI:232:ALA:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:183:SER:HB3	1:VR:337:TYR:CZ	2.28	0.67
1:PU:72:MET:CE	1:PU:452:VAL:HG21	2.24	0.67
1:cV:8:ASN:O	1:cV:12:MET:HG3	1.95	0.67
1:R4:18:SER:O	1:R4:21:THR:HG22	1.95	0.67
1:S5:183:SER:HB3	1:S5:337:TYR:CZ	2.28	0.67
1:g6:311:THR:O	1:g6:331:THR:HA	1.95	0.67
1:A7:221:ILE:HG21	1:A7:232:ALA:HB2	1.77	0.67
1:e8:311:THR:O	1:e8:331:THR:HA	1.95	0.67
1:dC:8:ASN:O	1:dC:12:MET:HG3	1.95	0.67
1:JD:221:ILE:HG21	1:JD:232:ALA:HB2	1.77	0.67
1:KE:221:ILE:HG21	1:KE:232:ALA:HB2	1.77	0.67
1:KE:311:THR:O	1:KE:331:THR:HA	1.95	0.67
1:UH:8:ASN:O	1:UH:12:MET:HG3	1.95	0.67
1:UH:183:SER:HB3	1:UH:337:TYR:CZ	2.28	0.67
1:fK:311:THR:O	1:fK:331:THR:HA	1.95	0.67
1:HL:8:ASN:O	1:HL:12:MET:HG3	1.95	0.67
1:MO:221:ILE:HG21	1:MO:232:ALA:HB2	1.77	0.67
1:TP:8:ASN:O	1:TP:12:MET:HG3	1.95	0.67
1:TP:311:THR:O	1:TP:331:THR:HA	1.95	0.67
1:bS:8:ASN:O	1:bS:12:MET:HG3	1.95	0.67
1:CT:72:MET:CE	1:CT:452:VAL:HG21	2.24	0.67
1:cV:18:SER:O	1:cV:21:THR:HG22	1.94	0.67
1:Y1:221:ILE:HG21	1:Y1:232:ALA:HB2	1.77	0.67
1:Q2:72:MET:CE	1:Q2:452:VAL:HG21	2.24	0.67
1:I3:8:ASN:O	1:I3:12:MET:HG3	1.95	0.67
1:I3:104:GLN:HB3	1:I3:108:SER:OG	1.95	0.67
1:S5:311:THR:O	1:S5:331:THR:HA	1.95	0.67
1:A7:72:MET:CE	1:A7:452:VAL:HG21	2.24	0.67
1:Z9:221:ILE:HG21	1:Z9:232:ALA:HB2	1.77	0.67
1:FB:72:MET:CE	1:FB:452:VAL:HG21	2.24	0.67
1:dC:18:SER:O	1:dC:21:THR:HG22	1.95	0.67
1:JD:311:THR:O	1:JD:331:THR:HA	1.95	0.67
1:LF:311:THR:O	1:LF:331:THR:HA	1.95	0.67
1:UH:311:THR:O	1:UH:331:THR:HA	1.95	0.67
1:BJ:72:MET:CE	1:BJ:452:VAL:HG21	2.24	0.67
1:BJ:221:ILE:HG21	1:BJ:232:ALA:HB2	1.77	0.67
1:DN:221:ILE:HG21	1:DN:232:ALA:HB2	1.77	0.67
1:DN:471:ASP:HB2	1:EX:4:GLN:HG2	1.76	0.67
1:TP:183:SER:HB3	1:TP:337:TYR:CZ	2.28	0.67
1:GQ:8:ASN:O	1:GQ:12:MET:HG3	1.95	0.67
1:GQ:72:MET:CE	1:GQ:452:VAL:HG21	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:18:SER:O	1:bS:21:THR:HG22	1.95	0.67
1:aW:221:ILE:HG21	1:aW:232:ALA:HB2	1.77	0.67
1:Q2:104:GLN:HB3	1:Q2:108:SER:OG	1.95	0.67
1:R4:72:MET:CE	1:R4:452:VAL:HG21	2.24	0.67
1:R4:104:GLN:HB3	1:R4:108:SER:OG	1.95	0.67
1:e8:199:VAL:HG11	1:e8:228:THR:HG22	1.75	0.67
1:Z9:311:THR:O	1:Z9:331:THR:HA	1.95	0.67
1:OA:359:GLN:OE1	1:OA:359:GLN:HA	1.93	0.67
1:LF:221:ILE:HG21	1:LF:232:ALA:HB2	1.77	0.67
1:WG:18:SER:O	1:WG:21:THR:HG22	1.95	0.67
1:WG:221:ILE:HG21	1:WG:232:ALA:HB2	1.77	0.67
1:NI:359:GLN:OE1	1:NI:359:GLN:HA	1.93	0.67
1:BJ:311:THR:O	1:BJ:331:THR:HA	1.95	0.67
1:fK:199:VAL:HG11	1:fK:228:THR:HG22	1.75	0.67
1:HL:104:GLN:HB3	1:HL:108:SER:OG	1.95	0.67
1:XM:18:SER:O	1:XM:21:THR:HG22	1.95	0.67
1:XM:221:ILE:HG21	1:XM:232:ALA:HB2	1.77	0.67
1:DN:72:MET:CE	1:DN:452:VAL:HG21	2.24	0.67
1:GQ:104:GLN:HB3	1:GQ:108:SER:OG	1.95	0.67
1:VR:18:SER:O	1:VR:21:THR:HG22	1.95	0.67
1:PU:104:GLN:HB3	1:PU:108:SER:OG	1.95	0.67
1:aW:311:THR:O	1:aW:331:THR:HA	1.95	0.67
1:EX:72:MET:CE	1:EX:452:VAL:HG21	2.24	0.67
1:Y1:311:THR:O	1:Y1:331:THR:HA	1.95	0.67
1:I3:72:MET:CE	1:I3:452:VAL:HG21	2.24	0.67
1:A7:311:THR:O	1:A7:331:THR:HA	1.95	0.67
1:FB:18:SER:O	1:FB:21:THR:HG22	1.94	0.67
1:dC:311:THR:O	1:dC:331:THR:HA	1.95	0.67
1:HL:72:MET:CE	1:HL:452:VAL:HG21	2.24	0.67
1:MO:359:GLN:OE1	1:MO:359:GLN:HA	1.93	0.67
1:VR:221:ILE:HG21	1:VR:232:ALA:HB2	1.77	0.67
1:CT:221:ILE:HG21	1:CT:232:ALA:HB2	1.77	0.67
1:CT:311:THR:O	1:CT:331:THR:HA	1.95	0.67
1:EX:221:ILE:HG21	1:EX:232:ALA:HB2	1.77	0.67
1:R4:71:GLY:O	1:R4:75:ILE:HG12	1.95	0.66
1:OA:311:THR:O	1:OA:331:THR:HA	1.95	0.66
1:FB:8:ASN:O	1:FB:12:MET:HG3	1.95	0.66
1:FB:221:ILE:HG21	1:FB:232:ALA:HB2	1.77	0.66
1:JD:8:ASN:O	1:JD:12:MET:HG3	1.95	0.66
1:WG:8:ASN:O	1:WG:12:MET:HG3	1.95	0.66
1:WG:72:MET:CE	1:WG:452:VAL:HG21	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:471:ASP:HB2	1:XM:4:GLN:HG2	1.77	0.66
1:XM:8:ASN:O	1:XM:12:MET:HG3	1.95	0.66
1:XM:72:MET:CE	1:XM:452:VAL:HG21	2.24	0.66
1:MO:104:GLN:HB3	1:MO:108:SER:OG	1.95	0.66
1:GQ:359:GLN:OE1	1:GQ:359:GLN:HA	1.93	0.66
1:bS:311:THR:O	1:bS:331:THR:HA	1.95	0.66
1:PU:221:ILE:HG21	1:PU:232:ALA:HB2	1.77	0.66
1:cV:311:THR:O	1:cV:331:THR:HA	1.95	0.66
1:EX:8:ASN:O	1:EX:12:MET:HG3	1.95	0.66
1:Y1:8:ASN:O	1:Y1:12:MET:HG3	1.95	0.66
1:Q2:221:ILE:HG21	1:Q2:232:ALA:HB2	1.77	0.66
1:R4:221:ILE:HG21	1:R4:232:ALA:HB2	1.77	0.66
1:e8:8:ASN:O	1:e8:12:MET:HG3	1.95	0.66
1:OA:71:GLY:O	1:OA:75:ILE:HG12	1.95	0.66
1:OA:471:ASP:HB2	1:NI:4:GLN:HG2	1.77	0.66
1:dC:72:MET:CE	1:dC:452:VAL:HG21	2.24	0.66
1:KE:8:ASN:O	1:KE:12:MET:HG3	1.95	0.66
1:NI:71:GLY:O	1:NI:75:ILE:HG12	1.95	0.66
1:NI:311:THR:O	1:NI:331:THR:HA	1.95	0.66
1:fK:8:ASN:O	1:fK:12:MET:HG3	1.95	0.66
1:HL:359:GLN:OE1	1:HL:359:GLN:HA	1.93	0.66
1:XM:104:GLN:HB3	1:XM:108:SER:OG	1.95	0.66
1:DN:8:ASN:O	1:DN:12:MET:HG3	1.95	0.66
1:MO:71:GLY:O	1:MO:75:ILE:HG12	1.95	0.66
1:GQ:311:THR:O	1:GQ:331:THR:HA	1.95	0.66
1:VR:72:MET:CE	1:VR:452:VAL:HG21	2.24	0.66
1:cV:72:MET:CE	1:cV:452:VAL:HG21	2.24	0.66
1:aW:8:ASN:O	1:aW:12:MET:HG3	1.95	0.66
1:EX:18:SER:O	1:EX:21:THR:HG22	1.95	0.66
1:Q2:71:GLY:O	1:Q2:75:ILE:HG12	1.96	0.66
1:Q2:359:GLN:OE1	1:Q2:359:GLN:HA	1.93	0.66
1:I3:359:GLN:OE1	1:I3:359:GLN:HA	1.93	0.66
1:R4:8:ASN:O	1:R4:12:MET:HG3	1.95	0.66
1:R4:311:THR:O	1:R4:331:THR:HA	1.95	0.66
1:g6:8:ASN:O	1:g6:12:MET:HG3	1.95	0.66
1:g6:221:ILE:HG21	1:g6:232:ALA:HB2	1.77	0.66
1:A7:202:GLU:HB2	1:FB:268:ASN:HD22	1.60	0.66
1:Z9:8:ASN:O	1:Z9:12:MET:HG3	1.95	0.66
1:LF:8:ASN:O	1:LF:12:MET:HG3	1.95	0.66
1:NI:104:GLN:HB3	1:NI:108:SER:OG	1.95	0.66
1:HL:311:THR:O	1:HL:331:THR:HA	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:311:THR:O	1:XM:331:THR:HA	1.95	0.66
1:MO:311:THR:O	1:MO:331:THR:HA	1.95	0.66
1:VR:8:ASN:O	1:VR:12:MET:HG3	1.95	0.66
1:bS:221:ILE:HG21	1:bS:232:ALA:HB2	1.77	0.66
1:PU:71:GLY:O	1:PU:75:ILE:HG12	1.95	0.66
1:PU:359:GLN:OE1	1:PU:359:GLN:HA	1.93	0.66
1:I3:311:THR:O	1:I3:331:THR:HA	1.95	0.66
1:e8:221:ILE:HG21	1:e8:232:ALA:HB2	1.77	0.66
1:OA:104:GLN:HB3	1:OA:108:SER:OG	1.95	0.66
1:FB:104:GLN:HB3	1:FB:108:SER:OG	1.95	0.66
1:FB:359:GLN:OE1	1:FB:359:GLN:HA	1.93	0.66
1:dC:221:ILE:HG21	1:dC:232:ALA:HB2	1.77	0.66
1:JD:359:GLN:OE1	1:JD:359:GLN:HA	1.93	0.66
1:LF:359:GLN:HA	1:LF:359:GLN:OE1	1.93	0.66
1:WG:104:GLN:HB3	1:WG:108:SER:OG	1.95	0.66
1:WG:311:THR:O	1:WG:331:THR:HA	1.95	0.66
1:UH:104:GLN:HB3	1:UH:108:SER:OG	1.95	0.66
1:fK:221:ILE:HG21	1:fK:232:ALA:HB2	1.77	0.66
1:DN:18:SER:O	1:DN:21:THR:HG22	1.95	0.66
1:DN:359:GLN:OE1	1:DN:359:GLN:HA	1.93	0.66
1:VR:104:GLN:HB3	1:VR:108:SER:OG	1.95	0.66
1:bS:72:MET:CE	1:bS:452:VAL:HG21	2.24	0.66
1:cV:221:ILE:HG21	1:cV:232:ALA:HB2	1.77	0.66
1:EX:359:GLN:OE1	1:EX:359:GLN:HA	1.93	0.66
1:Q2:8:ASN:O	1:Q2:12:MET:HG3	1.95	0.66
1:Q2:311:THR:O	1:Q2:331:THR:HA	1.95	0.66
1:R4:359:GLN:OE1	1:R4:359:GLN:HA	1.93	0.66
1:dC:4:GLN:HG2	1:cV:471:ASP:HB2	1.78	0.66
1:KE:359:GLN:OE1	1:KE:359:GLN:HA	1.93	0.66
1:TP:104:GLN:HB3	1:TP:108:SER:OG	1.95	0.66
1:VR:311:THR:O	1:VR:331:THR:HA	1.95	0.66
1:EX:104:GLN:HB3	1:EX:108:SER:OG	1.95	0.66
1:g6:18:SER:O	1:g6:21:THR:HG22	1.95	0.66
1:UH:18:SER:O	1:UH:21:THR:HG22	1.94	0.66
1:CT:78:ALA:O	1:CT:82:MET:HE2	1.96	0.66
1:PU:8:ASN:O	1:PU:12:MET:HG3	1.95	0.66
1:PU:311:THR:O	1:PU:331:THR:HA	1.95	0.66
1:Q2:354:SER:HA	1:Q2:363:PHE:CD2	2.31	0.66
1:R4:354:SER:HA	1:R4:363:PHE:CD2	2.31	0.66
1:S5:104:GLN:HB3	1:S5:108:SER:OG	1.95	0.66
1:A7:8:ASN:O	1:A7:12:MET:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:18:SER:O	1:A7:21:THR:HG22	1.94	0.66
1:e8:78:ALA:O	1:e8:82:MET:HE2	1.96	0.66
1:JD:104:GLN:HB3	1:JD:108:SER:OG	1.95	0.66
1:BJ:18:SER:O	1:BJ:21:THR:HG22	1.94	0.66
1:BJ:78:ALA:O	1:BJ:82:MET:HE2	1.96	0.66
1:fK:18:SER:O	1:fK:21:THR:HG22	1.95	0.66
1:DN:104:GLN:HB3	1:DN:108:SER:OG	1.95	0.66
1:CT:18:SER:O	1:CT:21:THR:HG22	1.95	0.66
1:Q2:179:LEU:HD21	1:Q2:336:ASN:OD1	1.96	0.66
1:S5:71:GLY:O	1:S5:75:ILE:HG12	1.95	0.66
1:A7:78:ALA:O	1:A7:82:MET:HE2	1.96	0.66
1:A7:104:GLN:HB3	1:A7:108:SER:OG	1.95	0.66
1:e8:18:SER:O	1:e8:21:THR:HG22	1.95	0.66
1:UH:179:LEU:HD21	1:UH:336:ASN:OD1	1.96	0.66
1:BJ:104:GLN:HB3	1:BJ:108:SER:OG	1.95	0.66
1:bS:71:GLY:O	1:bS:75:ILE:HG12	1.95	0.66
1:cV:71:GLY:O	1:cV:75:ILE:HG12	1.95	0.66
1:aW:71:GLY:O	1:aW:75:ILE:HG12	1.95	0.66
1:aW:104:GLN:HB3	1:aW:108:SER:OG	1.95	0.66
1:Y1:104:GLN:HB3	1:Y1:108:SER:OG	1.95	0.66
1:R4:179:LEU:HD21	1:R4:336:ASN:OD1	1.96	0.66
1:S5:179:LEU:HD21	1:S5:336:ASN:OD1	1.96	0.66
1:Z9:71:GLY:O	1:Z9:75:ILE:HG12	1.95	0.66
1:Z9:104:GLN:HB3	1:Z9:108:SER:OG	1.95	0.66
1:JD:71:GLY:O	1:JD:75:ILE:HG12	1.95	0.66
1:KE:104:GLN:HB3	1:KE:108:SER:OG	1.95	0.66
1:LF:71:GLY:O	1:LF:75:ILE:HG12	1.95	0.66
1:LF:104:GLN:HB3	1:LF:108:SER:OG	1.95	0.66
1:fK:78:ALA:O	1:fK:82:MET:HE2	1.96	0.66
1:DN:78:ALA:O	1:DN:82:MET:HE2	1.96	0.66
1:TP:71:GLY:O	1:TP:75:ILE:HG12	1.95	0.66
1:TP:179:LEU:HD21	1:TP:336:ASN:OD1	1.96	0.66
1:GQ:71:GLY:O	1:GQ:75:ILE:HG12	1.95	0.66
1:PU:179:LEU:HD21	1:PU:336:ASN:OD1	1.96	0.66
1:PU:354:SER:HA	1:PU:363:PHE:CD2	2.31	0.66
1:Y1:71:GLY:O	1:Y1:75:ILE:HG12	1.95	0.66
1:g6:71:GLY:O	1:g6:75:ILE:HG12	1.95	0.66
1:g6:78:ALA:O	1:g6:82:MET:HE2	1.96	0.66
1:g6:104:GLN:HB3	1:g6:108:SER:OG	1.95	0.66
1:e8:104:GLN:HB3	1:e8:108:SER:OG	1.95	0.66
1:e8:179:LEU:HD21	1:e8:336:ASN:OD1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:8:ASN:O	1:OA:12:MET:HG3	1.95	0.66
1:OA:179:LEU:HD21	1:OA:336:ASN:OD1	1.96	0.66
1:NI:179:LEU:HD21	1:NI:336:ASN:OD1	1.96	0.66
1:fK:104:GLN:HB3	1:fK:108:SER:OG	1.95	0.66
1:HL:71:GLY:O	1:HL:75:ILE:HG12	1.95	0.66
1:XM:179:LEU:HD21	1:XM:336:ASN:OD1	1.96	0.66
1:TP:18:SER:O	1:TP:21:THR:HG22	1.95	0.66
1:GQ:78:ALA:O	1:GQ:82:MET:HE2	1.96	0.66
1:VR:179:LEU:HD21	1:VR:336:ASN:OD1	1.96	0.66
1:CT:104:GLN:HB3	1:CT:108:SER:OG	1.95	0.66
1:aW:18:SER:O	1:aW:21:THR:HG22	1.94	0.66
1:Y1:18:SER:O	1:Y1:21:THR:HG22	1.95	0.65
1:I3:71:GLY:O	1:I3:75:ILE:HG12	1.95	0.65
1:I3:78:ALA:O	1:I3:82:MET:HE2	1.96	0.65
1:S5:18:SER:O	1:S5:21:THR:HG22	1.94	0.65
1:g6:68:THR:CG2	1:g6:452:VAL:HG22	2.27	0.65
1:g6:179:LEU:HD21	1:g6:336:ASN:OD1	1.96	0.65
1:g6:354:SER:HA	1:g6:363:PHE:CD2	2.31	0.65
1:Z9:18:SER:O	1:Z9:21:THR:HG22	1.95	0.65
1:Z9:68:THR:CG2	1:Z9:452:VAL:HG22	2.27	0.65
1:FB:71:GLY:O	1:FB:75:ILE:HG12	1.95	0.65
1:dC:71:GLY:O	1:dC:75:ILE:HG12	1.95	0.65
1:JD:354:SER:HA	1:JD:363:PHE:CD2	2.31	0.65
1:KE:71:GLY:O	1:KE:75:ILE:HG12	1.95	0.65
1:KE:354:SER:HA	1:KE:363:PHE:CD2	2.31	0.65
1:KE:471:ASP:HB2	1:LF:4:GLN:HG2	1.77	0.65
1:LF:354:SER:HA	1:LF:363:PHE:CD2	2.31	0.65
1:UH:71:GLY:O	1:UH:75:ILE:HG12	1.95	0.65
1:UH:354:SER:HA	1:UH:363:PHE:CD2	2.31	0.65
1:BJ:8:ASN:O	1:BJ:12:MET:HG3	1.95	0.65
1:fK:71:GLY:O	1:fK:75:ILE:HG12	1.95	0.65
1:fK:179:LEU:HD21	1:fK:336:ASN:OD1	1.96	0.65
1:fK:354:SER:HA	1:fK:363:PHE:CD2	2.31	0.65
1:HL:78:ALA:O	1:HL:82:MET:HE2	1.96	0.65
1:MO:179:LEU:HD21	1:MO:336:ASN:OD1	1.96	0.65
1:bS:104:GLN:HB3	1:bS:108:SER:OG	1.95	0.65
1:Y1:68:THR:CG2	1:Y1:452:VAL:HG22	2.27	0.65
1:Q2:78:ALA:O	1:Q2:82:MET:HE2	1.96	0.65
1:e8:68:THR:CG2	1:e8:452:VAL:HG22	2.27	0.65
1:e8:71:GLY:O	1:e8:75:ILE:HG12	1.95	0.65
1:e8:354:SER:HA	1:e8:363:PHE:CD2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:179:LEU:HD21	1:JD:336:ASN:OD1	1.96	0.65
1:KE:179:LEU:HD21	1:KE:336:ASN:OD1	1.96	0.65
1:WG:179:LEU:HD21	1:WG:336:ASN:OD1	1.96	0.65
1:UH:68:THR:CG2	1:UH:452:VAL:HG22	2.27	0.65
1:fK:68:THR:CG2	1:fK:452:VAL:HG22	2.27	0.65
1:PU:78:ALA:O	1:PU:82:MET:HE2	1.96	0.65
1:cV:104:GLN:HB3	1:cV:108:SER:OG	1.95	0.65
1:aW:68:THR:CG2	1:aW:452:VAL:HG22	2.27	0.65
1:EX:311:THR:O	1:EX:331:THR:HA	1.95	0.65
1:I3:179:LEU:HD21	1:I3:336:ASN:OD1	1.96	0.65
1:R4:78:ALA:O	1:R4:82:MET:HE2	1.96	0.65
1:S5:68:THR:CG2	1:S5:452:VAL:HG22	2.27	0.65
1:S5:354:SER:HA	1:S5:363:PHE:CD2	2.31	0.65
1:A7:4:GLN:HG2	1:BJ:471:ASP:HB2	1.78	0.65
1:dC:104:GLN:HB3	1:dC:108:SER:OG	1.95	0.65
1:WG:354:SER:HA	1:WG:363:PHE:CD2	2.31	0.65
1:NI:8:ASN:O	1:NI:12:MET:HG3	1.95	0.65
1:XM:354:SER:HA	1:XM:363:PHE:CD2	2.31	0.65
1:DN:311:THR:O	1:DN:331:THR:HA	1.95	0.65
1:MO:8:ASN:O	1:MO:12:MET:HG3	1.95	0.65
1:TP:68:THR:CG2	1:TP:452:VAL:HG22	2.27	0.65
1:TP:354:SER:HA	1:TP:363:PHE:CD2	2.31	0.65
1:VR:71:GLY:O	1:VR:75:ILE:HG12	1.95	0.65
1:CT:8:ASN:O	1:CT:12:MET:HG3	1.95	0.65
1:aW:179:LEU:HD21	1:aW:336:ASN:OD1	1.96	0.65
1:EX:71:GLY:O	1:EX:75:ILE:HG12	1.95	0.65
1:EX:78:ALA:O	1:EX:82:MET:HE2	1.96	0.65
1:Y1:78:ALA:O	1:Y1:82:MET:HE2	1.96	0.65
1:Y1:179:LEU:HD21	1:Y1:336:ASN:OD1	1.96	0.65
1:S5:78:ALA:O	1:S5:82:MET:HE2	1.96	0.65
1:OA:354:SER:HA	1:OA:363:PHE:CD2	2.31	0.65
1:FB:78:ALA:O	1:FB:82:MET:HE2	1.96	0.65
1:FB:311:THR:O	1:FB:331:THR:HA	1.95	0.65
1:LF:179:LEU:HD21	1:LF:336:ASN:OD1	1.96	0.65
1:WG:71:GLY:O	1:WG:75:ILE:HG12	1.95	0.65
1:HL:179:LEU:HD21	1:HL:336:ASN:OD1	1.96	0.65
1:DN:71:GLY:O	1:DN:75:ILE:HG12	1.95	0.65
1:DN:179:LEU:HD21	1:DN:336:ASN:OD1	1.96	0.65
1:aW:78:ALA:O	1:aW:82:MET:HE2	1.96	0.65
1:aW:354:SER:HA	1:aW:363:PHE:CD2	2.31	0.65
1:EX:68:THR:CG2	1:EX:452:VAL:HG22	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:71:GLY:O	1:A7:75:ILE:HG12	1.95	0.65
1:Z9:179:LEU:HD21	1:Z9:336:ASN:OD1	1.96	0.65
1:Z9:354:SER:HA	1:Z9:363:PHE:CD2	2.31	0.65
1:FB:68:THR:CG2	1:FB:452:VAL:HG22	2.27	0.65
1:NI:354:SER:HA	1:NI:363:PHE:CD2	2.31	0.65
1:DN:68:THR:CG2	1:DN:452:VAL:HG22	2.27	0.65
1:MO:354:SER:HA	1:MO:363:PHE:CD2	2.31	0.65
1:TP:78:ALA:O	1:TP:82:MET:HE2	1.96	0.65
1:EX:179:LEU:HD21	1:EX:336:ASN:OD1	1.96	0.65
1:Y1:354:SER:HA	1:Y1:363:PHE:CD2	2.31	0.65
1:I3:354:SER:HA	1:I3:363:PHE:CD2	2.31	0.65
1:A7:354:SER:HA	1:A7:363:PHE:CD2	2.31	0.65
1:Z9:78:ALA:O	1:Z9:82:MET:HE2	1.96	0.65
1:FB:179:LEU:HD21	1:FB:336:ASN:OD1	1.96	0.65
1:UH:78:ALA:O	1:UH:82:MET:HE2	1.96	0.65
1:GQ:179:LEU:HD21	1:GQ:336:ASN:OD1	1.96	0.65
1:bS:179:LEU:HD21	1:bS:336:ASN:OD1	1.96	0.65
1:CT:71:GLY:O	1:CT:75:ILE:HG12	1.95	0.65
1:OA:78:ALA:O	1:OA:82:MET:HE2	1.96	0.65
1:dC:179:LEU:HD21	1:dC:336:ASN:OD1	1.96	0.65
1:BJ:71:GLY:O	1:BJ:75:ILE:HG12	1.95	0.65
1:BJ:354:SER:HA	1:BJ:363:PHE:CD2	2.31	0.65
1:HL:289:ALA:HB2	1:HL:299:LEU:HD23	1.79	0.65
1:HL:354:SER:HA	1:HL:363:PHE:CD2	2.31	0.65
1:XM:68:THR:CG2	1:XM:452:VAL:HG22	2.27	0.65
1:XM:71:GLY:O	1:XM:75:ILE:HG12	1.95	0.65
1:DN:464:ALA:HA	1:EX:9:ILE:HD11	1.79	0.65
1:VR:354:SER:HA	1:VR:363:PHE:CD2	2.31	0.65
1:CT:179:LEU:HD21	1:CT:336:ASN:OD1	1.96	0.65
1:I3:8:ASN:HB3	1:I3:11:ALA:HB3	1.79	0.65
1:I3:289:ALA:HB2	1:I3:299:LEU:HD23	1.79	0.65
1:dC:68:THR:CG2	1:dC:452:VAL:HG22	2.27	0.65
1:KE:289:ALA:HB2	1:KE:299:LEU:HD23	1.79	0.65
1:WG:68:THR:CG2	1:WG:452:VAL:HG22	2.27	0.65
1:NI:78:ALA:O	1:NI:82:MET:HE2	1.96	0.65
1:NI:457:ILE:CG2	1:PU:80:LYS:HG3	2.27	0.65
1:BJ:179:LEU:HD21	1:BJ:336:ASN:OD1	1.96	0.65
1:HL:94:VAL:HG21	1:GQ:59:SER:HB3	1.79	0.65
1:GQ:289:ALA:HB2	1:GQ:299:LEU:HD23	1.79	0.65
1:GQ:354:SER:HA	1:GQ:363:PHE:CD2	2.31	0.65
1:GQ:507:ARG:HB2	1:GQ:507:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:354:SER:HA	1:bS:363:PHE:CD2	2.31	0.65
1:cV:179:LEU:HD21	1:cV:336:ASN:OD1	1.96	0.65
1:Q2:68:THR:CG2	1:Q2:452:VAL:HG22	2.27	0.65
1:R4:68:THR:CG2	1:R4:452:VAL:HG22	2.27	0.65
1:A7:179:LEU:HD21	1:A7:336:ASN:OD1	1.96	0.65
1:JD:78:ALA:O	1:JD:82:MET:HE2	1.96	0.65
1:JD:289:ALA:HB2	1:JD:299:LEU:HD23	1.79	0.65
1:KE:78:ALA:O	1:KE:82:MET:HE2	1.96	0.65
1:LF:78:ALA:O	1:LF:82:MET:HE2	1.96	0.65
1:BJ:289:ALA:HB2	1:BJ:299:LEU:HD23	1.79	0.65
1:fK:507:ARG:NH1	1:fK:507:ARG:HB2	2.12	0.65
1:HL:507:ARG:NH1	1:HL:507:ARG:HB2	2.12	0.65
1:MO:78:ALA:O	1:MO:82:MET:HE2	1.96	0.65
1:GQ:8:ASN:HB3	1:GQ:11:ALA:HB3	1.79	0.65
1:CT:354:SER:HA	1:CT:363:PHE:CD2	2.31	0.65
1:Y1:507:ARG:NH1	1:Y1:507:ARG:HB2	2.12	0.65
1:I3:507:ARG:HB2	1:I3:507:ARG:NH1	2.12	0.65
1:S5:414:VAL:HG13	1:S5:423:VAL:HG21	1.79	0.65
1:g6:289:ALA:HB2	1:g6:299:LEU:HD23	1.79	0.65
1:g6:507:ARG:NH1	1:g6:507:ARG:HB2	2.12	0.65
1:A7:8:ASN:HB3	1:A7:11:ALA:HB3	1.79	0.65
1:A7:289:ALA:HB2	1:A7:299:LEU:HD23	1.79	0.65
1:A7:507:ARG:NH1	1:A7:507:ARG:HB2	2.12	0.65
1:e8:507:ARG:NH1	1:e8:507:ARG:HB2	2.12	0.65
1:OA:68:THR:CG2	1:OA:452:VAL:HG22	2.27	0.65
1:FB:8:ASN:HB3	1:FB:11:ALA:HB3	1.79	0.65
1:FB:507:ARG:NH1	1:FB:507:ARG:HB2	2.12	0.65
1:dC:78:ALA:O	1:dC:82:MET:HE2	1.96	0.65
1:dC:354:SER:HA	1:dC:363:PHE:CD2	2.31	0.65
1:JD:8:ASN:HB3	1:JD:11:ALA:HB3	1.79	0.65
1:JD:68:THR:CG2	1:JD:452:VAL:HG22	2.27	0.65
1:JD:80:LYS:HG3	1:HL:457:ILE:CG2	2.27	0.65
1:KE:8:ASN:HB3	1:KE:11:ALA:HB3	1.79	0.65
1:KE:68:THR:CG2	1:KE:452:VAL:HG22	2.27	0.65
1:LF:8:ASN:HB3	1:LF:11:ALA:HB3	1.79	0.65
1:LF:68:THR:CG2	1:LF:452:VAL:HG22	2.27	0.65
1:LF:289:ALA:HB2	1:LF:299:LEU:HD23	1.79	0.65
1:HL:8:ASN:HB3	1:HL:11:ALA:HB3	1.79	0.65
1:DN:354:SER:HA	1:DN:363:PHE:CD2	2.31	0.65
1:TP:414:VAL:HG13	1:TP:423:VAL:HG21	1.79	0.65
1:bS:507:ARG:NH1	1:bS:507:ARG:HB2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:289:ALA:HB2	1:CT:299:LEU:HD23	1.79	0.65
1:PU:68:THR:CG2	1:PU:452:VAL:HG22	2.27	0.65
1:cV:68:THR:CG2	1:cV:452:VAL:HG22	2.27	0.65
1:cV:354:SER:HA	1:cV:363:PHE:CD2	2.31	0.65
1:cV:507:ARG:NH1	1:cV:507:ARG:HB2	2.12	0.65
1:aW:414:VAL:HG13	1:aW:423:VAL:HG21	1.79	0.65
1:EX:8:ASN:HB3	1:EX:11:ALA:HB3	1.79	0.65
1:Y1:414:VAL:HG13	1:Y1:423:VAL:HG21	1.79	0.64
1:A7:68:THR:CG2	1:A7:452:VAL:HG22	2.27	0.64
1:e8:289:ALA:HB2	1:e8:299:LEU:HD23	1.79	0.64
1:Z9:414:VAL:HG13	1:Z9:423:VAL:HG21	1.79	0.64
1:Z9:507:ARG:NH1	1:Z9:507:ARG:HB2	2.12	0.64
1:FB:354:SER:HA	1:FB:363:PHE:CD2	2.31	0.64
1:dC:507:ARG:NH1	1:dC:507:ARG:HB2	2.12	0.64
1:WG:78:ALA:O	1:WG:82:MET:HE2	1.96	0.64
1:UH:414:VAL:HG13	1:UH:423:VAL:HG21	1.79	0.64
1:NI:68:THR:CG2	1:NI:452:VAL:HG22	2.27	0.64
1:BJ:507:ARG:NH1	1:BJ:507:ARG:HB2	2.12	0.64
1:fK:289:ALA:HB2	1:fK:299:LEU:HD23	1.79	0.64
1:XM:78:ALA:O	1:XM:82:MET:HE2	1.96	0.64
1:DN:8:ASN:HB3	1:DN:11:ALA:HB3	1.79	0.64
1:DN:289:ALA:HB2	1:DN:299:LEU:HD23	1.79	0.64
1:MO:8:ASN:HB3	1:MO:11:ALA:HB3	1.79	0.64
1:VR:68:THR:CG2	1:VR:452:VAL:HG22	2.27	0.64
1:bS:68:THR:CG2	1:bS:452:VAL:HG22	2.27	0.64
1:CT:8:ASN:HB3	1:CT:11:ALA:HB3	1.79	0.64
1:CT:507:ARG:NH1	1:CT:507:ARG:HB2	2.12	0.64
1:aW:507:ARG:NH1	1:aW:507:ARG:HB2	2.12	0.64
1:OA:8:ASN:HB3	1:OA:11:ALA:HB3	1.79	0.64
1:NI:8:ASN:HB3	1:NI:11:ALA:HB3	1.79	0.64
1:BJ:8:ASN:HB3	1:BJ:11:ALA:HB3	1.79	0.64
1:BJ:68:THR:CG2	1:BJ:452:VAL:HG22	2.27	0.64
1:MO:68:THR:CG2	1:MO:452:VAL:HG22	2.27	0.64
1:MO:289:ALA:HB2	1:MO:299:LEU:HD23	1.79	0.64
1:cV:78:ALA:O	1:cV:82:MET:HE2	1.96	0.64
1:EX:289:ALA:HB2	1:EX:299:LEU:HD23	1.79	0.64
1:EX:354:SER:HA	1:EX:363:PHE:CD2	2.31	0.64
1:EX:507:ARG:NH1	1:EX:507:ARG:HB2	2.12	0.64
1:OA:289:ALA:HB2	1:OA:299:LEU:HD23	1.79	0.64
1:FB:289:ALA:HB2	1:FB:299:LEU:HD23	1.79	0.64
1:NI:289:ALA:HB2	1:NI:299:LEU:HD23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:8:ASN:HB3	1:fK:11:ALA:HB3	1.79	0.64
1:XM:414:VAL:HG13	1:XM:423:VAL:HG21	1.79	0.64
1:DN:507:ARG:NH1	1:DN:507:ARG:HB2	2.12	0.64
1:VR:78:ALA:O	1:VR:82:MET:HE2	1.96	0.64
1:bS:78:ALA:O	1:bS:82:MET:HE2	1.96	0.64
1:PU:414:VAL:HG13	1:PU:423:VAL:HG21	1.79	0.64
1:cV:289:ALA:HB2	1:cV:299:LEU:HD23	1.79	0.64
1:Q2:8:ASN:HB3	1:Q2:11:ALA:HB3	1.79	0.64
1:Q2:414:VAL:HG13	1:Q2:423:VAL:HG21	1.79	0.64
1:R4:8:ASN:HB3	1:R4:11:ALA:HB3	1.79	0.64
1:g6:8:ASN:HB3	1:g6:11:ALA:HB3	1.79	0.64
1:e8:8:ASN:HB3	1:e8:11:ALA:HB3	1.79	0.64
1:JD:507:ARG:NH1	1:JD:507:ARG:HB2	2.12	0.64
1:WG:414:VAL:HG13	1:WG:423:VAL:HG21	1.79	0.64
1:bS:289:ALA:HB2	1:bS:299:LEU:HD23	1.79	0.64
1:CT:68:THR:CG2	1:CT:452:VAL:HG22	2.27	0.64
1:PU:8:ASN:HB3	1:PU:11:ALA:HB3	1.79	0.64
1:R4:414:VAL:HG13	1:R4:423:VAL:HG21	1.79	0.64
1:S5:8:ASN:HB3	1:S5:11:ALA:HB3	1.79	0.64
1:OA:414:VAL:HG13	1:OA:423:VAL:HG21	1.79	0.64
1:dC:8:ASN:HB3	1:dC:11:ALA:HB3	1.79	0.64
1:dC:289:ALA:HB2	1:dC:299:LEU:HD23	1.79	0.64
1:NI:414:VAL:HG13	1:NI:423:VAL:HG21	1.79	0.64
1:VR:414:VAL:HG13	1:VR:423:VAL:HG21	1.79	0.64
1:bS:8:ASN:HB3	1:bS:11:ALA:HB3	1.79	0.64
1:cV:8:ASN:HB3	1:cV:11:ALA:HB3	1.79	0.64
1:I3:81:ALA:HB3	1:I3:138:LEU:HD11	1.80	0.64
1:I3:179:LEU:HD13	1:I3:180:ILE:N	2.13	0.64
1:g6:179:LEU:HD13	1:g6:180:ILE:N	2.13	0.64
1:A7:179:LEU:HD13	1:A7:180:ILE:N	2.13	0.64
1:OA:179:LEU:HD13	1:OA:180:ILE:N	2.13	0.64
1:dC:414:VAL:HG13	1:dC:423:VAL:HG21	1.79	0.64
1:KE:507:ARG:NH1	1:KE:507:ARG:HB2	2.12	0.64
1:WG:8:ASN:HB3	1:WG:11:ALA:HB3	1.79	0.64
1:UH:8:ASN:HB3	1:UH:11:ALA:HB3	1.79	0.64
1:UH:179:LEU:HD13	1:UH:180:ILE:N	2.13	0.64
1:fK:179:LEU:HD13	1:fK:180:ILE:N	2.13	0.64
1:XM:8:ASN:HB3	1:XM:11:ALA:HB3	1.79	0.64
1:MO:179:LEU:HD13	1:MO:180:ILE:N	2.13	0.64
1:MO:414:VAL:HG13	1:MO:423:VAL:HG21	1.79	0.64
1:TP:8:ASN:HB3	1:TP:11:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:8:ASN:HB3	1:VR:11:ALA:HB3	1.79	0.64
1:Y1:8:ASN:HB3	1:Y1:11:ALA:HB3	1.79	0.64
1:Q2:289:ALA:HB2	1:Q2:299:LEU:HD23	1.79	0.64
1:S5:179:LEU:HD13	1:S5:180:ILE:N	2.13	0.64
1:e8:179:LEU:HD13	1:e8:180:ILE:N	2.13	0.64
1:Z9:8:ASN:HB3	1:Z9:11:ALA:HB3	1.79	0.64
1:FB:239:THR:HG21	1:FB:403:ILE:HD11	1.80	0.64
1:LF:507:ARG:NH1	1:LF:507:ARG:HB2	2.12	0.64
1:NI:179:LEU:HD13	1:NI:180:ILE:N	2.13	0.64
1:BJ:179:LEU:HD13	1:BJ:180:ILE:N	2.13	0.64
1:HL:179:LEU:HD13	1:HL:180:ILE:N	2.13	0.64
1:XM:507:ARG:NH1	1:XM:507:ARG:HB2	2.12	0.64
1:DN:81:ALA:HB3	1:DN:138:LEU:HD11	1.80	0.64
1:DN:239:THR:HG21	1:DN:403:ILE:HD11	1.80	0.64
1:TP:179:LEU:HD13	1:TP:180:ILE:N	2.13	0.64
1:GQ:179:LEU:HD13	1:GQ:180:ILE:N	2.13	0.64
1:CT:179:LEU:HD13	1:CT:180:ILE:N	2.13	0.64
1:cV:414:VAL:HG13	1:cV:423:VAL:HG21	1.79	0.64
1:aW:8:ASN:HB3	1:aW:11:ALA:HB3	1.79	0.64
1:EX:239:THR:HG21	1:EX:403:ILE:HD11	1.80	0.64
1:Y1:239:THR:HG21	1:Y1:403:ILE:HD11	1.80	0.64
1:I3:68:THR:CG2	1:I3:452:VAL:HG22	2.27	0.64
1:R4:289:ALA:HB2	1:R4:299:LEU:HD23	1.79	0.64
1:e8:239:THR:HG21	1:e8:403:ILE:HD11	1.80	0.64
1:Z9:239:THR:HG21	1:Z9:403:ILE:HD11	1.80	0.64
1:FB:81:ALA:HB3	1:FB:138:LEU:HD11	1.80	0.64
1:fK:239:THR:HG21	1:fK:403:ILE:HD11	1.80	0.64
1:HL:81:ALA:HB3	1:HL:138:LEU:HD11	1.80	0.64
1:GQ:81:ALA:HB3	1:GQ:138:LEU:HD11	1.80	0.64
1:bS:414:VAL:HG13	1:bS:423:VAL:HG21	1.79	0.64
1:PU:289:ALA:HB2	1:PU:299:LEU:HD23	1.79	0.64
1:aW:239:THR:HG21	1:aW:403:ILE:HD11	1.80	0.64
1:EX:81:ALA:HB3	1:EX:138:LEU:HD11	1.80	0.64
1:g6:239:THR:HG21	1:g6:403:ILE:HD11	1.80	0.64
1:dC:239:THR:HG21	1:dC:403:ILE:HD11	1.80	0.64
1:WG:59:SER:HB3	1:VR:94:VAL:HG21	1.79	0.64
1:WG:507:ARG:NH1	1:WG:507:ARG:HB2	2.12	0.64
1:NI:94:VAL:HG21	1:MO:59:SER:HB3	1.80	0.64
1:HL:68:THR:CG2	1:HL:452:VAL:HG22	2.27	0.64
1:bS:239:THR:HG21	1:bS:403:ILE:HD11	1.80	0.64
1:Y1:59:SER:HB3	1:Z9:94:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:289:ALA:HB2	1:Y1:299:LEU:HD23	1.79	0.64
1:Z9:457:ILE:CG2	1:bS:80:LYS:HG3	2.27	0.64
1:FB:179:LEU:HD13	1:FB:180:ILE:N	2.13	0.64
1:DN:179:LEU:HD13	1:DN:180:ILE:N	2.13	0.64
1:GQ:68:THR:CG2	1:GQ:452:VAL:HG22	2.27	0.64
1:VR:507:ARG:NH1	1:VR:507:ARG:HB2	2.12	0.64
1:bS:179:LEU:HD13	1:bS:180:ILE:N	2.13	0.64
1:cV:239:THR:HG21	1:cV:403:ILE:HD11	1.80	0.64
1:aW:289:ALA:HB2	1:aW:299:LEU:HD23	1.79	0.64
1:g6:414:VAL:HG13	1:g6:423:VAL:HG21	1.79	0.63
1:g6:431:MET:HE1	1:fK:56:SER:OG	1.98	0.63
1:A7:59:SER:HB3	1:BJ:94:VAL:HG21	1.80	0.63
1:e8:414:VAL:HG13	1:e8:423:VAL:HG21	1.79	0.63
1:Z9:289:ALA:HB2	1:Z9:299:LEU:HD23	1.79	0.63
1:dC:9:ILE:HD11	1:cV:464:ALA:HA	1.81	0.63
1:LF:81:ALA:HB3	1:LF:138:LEU:HD11	1.80	0.63
1:fK:414:VAL:HG13	1:fK:423:VAL:HG21	1.79	0.63
1:VR:239:THR:HG21	1:VR:403:ILE:HD11	1.80	0.63
1:CT:239:THR:HG21	1:CT:403:ILE:HD11	1.80	0.63
1:cV:179:LEU:HD13	1:cV:180:ILE:N	2.13	0.63
1:EX:179:LEU:HD13	1:EX:180:ILE:N	2.13	0.63
1:I3:239:THR:HG21	1:I3:403:ILE:HD11	1.80	0.63
1:OA:507:ARG:NH1	1:OA:507:ARG:HB2	2.12	0.63
1:dC:179:LEU:HD13	1:dC:180:ILE:N	2.13	0.63
1:KE:81:ALA:HB3	1:KE:138:LEU:HD11	1.80	0.63
1:KE:464:ALA:HA	1:LF:9:ILE:HD11	1.80	0.63
1:WG:464:ALA:HA	1:XM:9:ILE:HD11	1.80	0.63
1:JD:81:ALA:HB3	1:JD:138:LEU:HD11	1.80	0.63
1:LF:81:ALA:CB	1:LF:138:LEU:HD11	2.29	0.63
1:LF:239:THR:HG21	1:LF:403:ILE:HD11	1.80	0.63
1:UH:289:ALA:HB2	1:UH:299:LEU:HD23	1.79	0.63
1:UH:507:ARG:HB2	1:UH:507:ARG:NH1	2.12	0.63
1:NI:507:ARG:NH1	1:NI:507:ARG:HB2	2.12	0.63
1:BJ:239:THR:HG21	1:BJ:403:ILE:HD11	1.80	0.63
1:HL:239:THR:HG21	1:HL:403:ILE:HD11	1.80	0.63
1:XM:239:THR:HG21	1:XM:403:ILE:HD11	1.80	0.63
1:XM:289:ALA:HB2	1:XM:299:LEU:HD23	1.79	0.63
1:DN:354:SER:HB3	1:DN:359:GLN:HE22	1.64	0.63
1:TP:289:ALA:HB2	1:TP:299:LEU:HD23	1.79	0.63
1:TP:507:ARG:NH1	1:TP:507:ARG:HB2	2.12	0.63
1:CT:81:ALA:HB3	1:CT:138:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:354:SER:HB3	1:EX:359:GLN:HE22	1.64	0.63
1:I3:431:MET:HE1	1:HL:56:SER:OG	1.98	0.63
1:S5:239:THR:HG21	1:S5:403:ILE:HD11	1.80	0.63
1:S5:289:ALA:HB2	1:S5:299:LEU:HD23	1.79	0.63
1:S5:507:ARG:NH1	1:S5:507:ARG:HB2	2.12	0.63
1:g6:464:ALA:HA	1:fK:9:ILE:HD11	1.80	0.63
1:A7:239:THR:HG21	1:A7:403:ILE:HD11	1.80	0.63
1:e8:81:ALA:CB	1:e8:138:LEU:HD11	2.29	0.63
1:FB:81:ALA:CB	1:FB:138:LEU:HD11	2.29	0.63
1:FB:354:SER:HB3	1:FB:359:GLN:HE22	1.64	0.63
1:JD:81:ALA:CB	1:JD:138:LEU:HD11	2.29	0.63
1:JD:94:VAL:HG21	1:KE:59:SER:HB3	1.81	0.63
1:JD:239:THR:HG21	1:JD:403:ILE:HD11	1.80	0.63
1:KE:81:ALA:CB	1:KE:138:LEU:HD11	2.29	0.63
1:KE:239:THR:HG21	1:KE:403:ILE:HD11	1.80	0.63
1:WG:239:THR:HG21	1:WG:403:ILE:HD11	1.80	0.63
1:WG:289:ALA:HB2	1:WG:299:LEU:HD23	1.79	0.63
1:UH:239:THR:HG21	1:UH:403:ILE:HD11	1.80	0.63
1:BJ:354:SER:HB3	1:BJ:359:GLN:HE22	1.64	0.63
1:fK:81:ALA:CB	1:fK:138:LEU:HD11	2.29	0.63
1:DN:81:ALA:CB	1:DN:138:LEU:HD11	2.29	0.63
1:TP:239:THR:HG21	1:TP:403:ILE:HD11	1.80	0.63
1:GQ:239:THR:HG21	1:GQ:403:ILE:HD11	1.80	0.63
1:GQ:354:SER:HB3	1:GQ:359:GLN:HE22	1.64	0.63
1:VR:289:ALA:HB2	1:VR:299:LEU:HD23	1.79	0.63
1:EX:81:ALA:CB	1:EX:138:LEU:HD11	2.29	0.63
1:g6:81:ALA:CB	1:g6:138:LEU:HD11	2.29	0.63
1:A7:81:ALA:HB3	1:A7:138:LEU:HD11	1.80	0.63
1:A7:354:SER:HB3	1:A7:359:GLN:HE22	1.64	0.63
1:e8:81:ALA:HB3	1:e8:138:LEU:HD11	1.80	0.63
1:Z9:5:VAL:HB	1:aW:474:PHE:CE2	2.34	0.63
1:dC:81:ALA:CB	1:dC:138:LEU:HD11	2.29	0.63
1:BJ:81:ALA:HB3	1:BJ:138:LEU:HD11	1.80	0.63
1:HL:354:SER:HB3	1:HL:359:GLN:HE22	1.64	0.63
1:bS:81:ALA:CB	1:bS:138:LEU:HD11	2.29	0.63
1:CT:354:SER:HB3	1:CT:359:GLN:HE22	1.64	0.63
1:cV:81:ALA:CB	1:cV:138:LEU:HD11	2.29	0.63
1:I3:354:SER:HB3	1:I3:359:GLN:HE22	1.64	0.63
1:OA:239:THR:HG21	1:OA:403:ILE:HD11	1.80	0.63
1:JD:414:VAL:HG13	1:JD:423:VAL:HG21	1.79	0.63
1:KE:414:VAL:HG13	1:KE:423:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:179:LEU:HD13	1:LF:180:ILE:N	2.13	0.63
1:WG:81:ALA:HB3	1:WG:138:LEU:HD11	1.80	0.63
1:NI:239:THR:HG21	1:NI:403:ILE:HD11	1.80	0.63
1:XM:179:LEU:HD13	1:XM:180:ILE:N	2.13	0.63
1:VR:81:ALA:HB3	1:VR:138:LEU:HD11	1.80	0.63
1:Q2:9:ILE:HD11	1:PU:464:ALA:HA	1.80	0.63
1:I3:94:VAL:HG21	1:HL:59:SER:HB3	1.81	0.63
1:R4:179:LEU:HD13	1:R4:180:ILE:N	2.13	0.63
1:A7:81:ALA:CB	1:A7:138:LEU:HD11	2.29	0.63
1:OA:81:ALA:CB	1:OA:138:LEU:HD11	2.29	0.63
1:OA:81:ALA:HB3	1:OA:138:LEU:HD11	1.80	0.63
1:JD:246:SER:HA	1:JD:265:ILE:O	1.99	0.63
1:KE:179:LEU:HD13	1:KE:180:ILE:N	2.13	0.63
1:KE:246:SER:HA	1:KE:265:ILE:O	1.99	0.63
1:KE:474:PHE:CE2	1:LF:5:VAL:HB	2.34	0.63
1:LF:246:SER:HA	1:LF:265:ILE:O	1.99	0.63
1:NI:81:ALA:CB	1:NI:138:LEU:HD11	2.29	0.63
1:BJ:9:ILE:HD11	1:CT:464:ALA:HA	1.81	0.63
1:DN:246:SER:HA	1:DN:265:ILE:O	1.99	0.63
1:MO:239:THR:HG21	1:MO:403:ILE:HD11	1.80	0.63
1:MO:507:ARG:NH1	1:MO:507:ARG:HB2	2.12	0.63
1:VR:179:LEU:HD13	1:VR:180:ILE:N	2.13	0.63
1:VR:457:ILE:CG2	1:aW:80:LYS:HG3	2.29	0.63
1:bS:464:ALA:HA	1:cV:9:ILE:HD11	1.81	0.63
1:Y1:5:VAL:HB	1:Z9:474:PHE:CE2	2.34	0.63
1:Q2:246:SER:HA	1:Q2:265:ILE:O	1.99	0.63
1:I3:414:VAL:HG13	1:I3:423:VAL:HG21	1.79	0.63
1:R4:239:THR:HG21	1:R4:403:ILE:HD11	1.80	0.63
1:R4:507:ARG:NH1	1:R4:507:ARG:HB2	2.12	0.63
1:g6:81:ALA:HB3	1:g6:138:LEU:HD11	1.80	0.63
1:A7:5:VAL:HB	1:BJ:474:PHE:CE2	2.33	0.63
1:OA:464:ALA:HA	1:NI:9:ILE:HD11	1.79	0.63
1:FB:59:SER:HB3	1:EX:94:VAL:HG21	1.81	0.63
1:dC:5:VAL:HB	1:cV:474:PHE:CE2	2.34	0.63
1:JD:179:LEU:HD13	1:JD:180:ILE:N	2.13	0.63
1:WG:179:LEU:HD13	1:WG:180:ILE:N	2.13	0.63
1:WG:474:PHE:CE2	1:XM:5:VAL:HB	2.34	0.63
1:NI:474:PHE:CE2	1:MO:5:VAL:HB	2.34	0.63
1:fK:81:ALA:HB3	1:fK:138:LEU:HD11	1.80	0.63
1:HL:431:MET:HE1	1:GQ:56:SER:OG	1.99	0.63
1:XM:81:ALA:HB3	1:XM:138:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:81:ALA:CB	1:MO:138:LEU:HD11	2.29	0.63
1:GQ:414:VAL:HG13	1:GQ:423:VAL:HG21	1.79	0.63
1:EX:246:SER:HA	1:EX:265:ILE:O	1.99	0.63
1:Q2:94:VAL:HG21	1:R4:59:SER:HB3	1.81	0.63
1:Q2:179:LEU:HD13	1:Q2:180:ILE:N	2.13	0.63
1:Q2:239:THR:HG21	1:Q2:403:ILE:HD11	1.80	0.63
1:Q2:507:ARG:NH1	1:Q2:507:ARG:HB2	2.12	0.63
1:OA:354:SER:HA	1:OA:363:PHE:CE2	2.34	0.63
1:FB:246:SER:HA	1:FB:265:ILE:O	1.99	0.63
1:LF:414:VAL:HG13	1:LF:423:VAL:HG21	1.79	0.63
1:NI:81:ALA:HB3	1:NI:138:LEU:HD11	1.80	0.63
1:BJ:5:VAL:HB	1:CT:474:PHE:CE2	2.34	0.63
1:BJ:81:ALA:CB	1:BJ:138:LEU:HD11	2.29	0.63
1:HL:414:VAL:HG13	1:HL:423:VAL:HG21	1.79	0.63
1:PU:246:SER:HA	1:PU:265:ILE:O	1.99	0.63
1:aW:179:LEU:HD13	1:aW:180:ILE:N	2.13	0.63
1:Y1:246:SER:HA	1:Y1:265:ILE:O	1.99	0.62
1:I3:81:ALA:CB	1:I3:138:LEU:HD11	2.29	0.62
1:R4:246:SER:HA	1:R4:265:ILE:O	1.99	0.62
1:g6:246:SER:HA	1:g6:265:ILE:O	1.99	0.62
1:Z9:56:SER:OG	1:aW:431:MET:HE1	1.98	0.62
1:Z9:179:LEU:HD13	1:Z9:180:ILE:N	2.13	0.62
1:Z9:246:SER:HA	1:Z9:265:ILE:O	1.99	0.62
1:KE:94:VAL:HG21	1:LF:59:SER:HB3	1.81	0.62
1:LF:354:SER:HB3	1:LF:359:GLN:HE22	1.64	0.62
1:NI:354:SER:HA	1:NI:363:PHE:CE2	2.34	0.62
1:fK:354:SER:HB3	1:fK:359:GLN:HE22	1.64	0.62
1:MO:81:ALA:HB3	1:MO:138:LEU:HD11	1.80	0.62
1:MO:354:SER:HA	1:MO:363:PHE:CE2	2.34	0.62
1:GQ:81:ALA:CB	1:GQ:138:LEU:HD11	2.29	0.62
1:CT:81:ALA:CB	1:CT:138:LEU:HD11	2.29	0.62
1:PU:179:LEU:HD13	1:PU:180:ILE:N	2.13	0.62
1:PU:239:THR:HG21	1:PU:403:ILE:HD11	1.80	0.62
1:PU:507:ARG:NH1	1:PU:507:ARG:HB2	2.12	0.62
1:aW:246:SER:HA	1:aW:265:ILE:O	1.99	0.62
1:Y1:80:LYS:HG3	1:XM:457:ILE:CG2	2.29	0.62
1:Y1:179:LEU:HD13	1:Y1:180:ILE:N	2.13	0.62
1:Q2:457:ILE:CG2	1:TP:80:LYS:HG3	2.28	0.62
1:g6:354:SER:HB3	1:g6:359:GLN:HE22	1.64	0.62
1:A7:246:SER:HA	1:A7:265:ILE:O	1.99	0.62
1:e8:354:SER:HB3	1:e8:359:GLN:HE22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:5:VAL:HB	1:EX:474:PHE:CE2	2.34	0.62
1:FB:414:VAL:HG13	1:FB:423:VAL:HG21	1.79	0.62
1:JD:354:SER:HB3	1:JD:359:GLN:HE22	1.64	0.62
1:JD:474:PHE:CE2	1:KE:5:VAL:HB	2.34	0.62
1:KE:354:SER:HB3	1:KE:359:GLN:HE22	1.64	0.62
1:WG:5:VAL:HB	1:VR:474:PHE:CE2	2.34	0.62
1:WG:56:SER:OG	1:VR:431:MET:HE1	1.98	0.62
1:fK:246:SER:HA	1:fK:265:ILE:O	1.99	0.62
1:TP:354:SER:HA	1:TP:363:PHE:CE2	2.34	0.62
1:bS:354:SER:HA	1:bS:363:PHE:CE2	2.34	0.62
1:CT:414:VAL:HG13	1:CT:423:VAL:HG21	1.79	0.62
1:EX:414:VAL:HG13	1:EX:423:VAL:HG21	1.79	0.62
1:Q2:474:PHE:CE2	1:R4:5:VAL:HB	2.34	0.62
1:S5:5:VAL:HB	1:TP:474:PHE:CE2	2.34	0.62
1:S5:81:ALA:CB	1:S5:138:LEU:HD11	2.29	0.62
1:S5:354:SER:HA	1:S5:363:PHE:CE2	2.34	0.62
1:g6:474:PHE:CE2	1:fK:5:VAL:HB	2.33	0.62
1:A7:414:VAL:HG13	1:A7:423:VAL:HG21	1.79	0.62
1:e8:246:SER:HA	1:e8:265:ILE:O	1.99	0.62
1:dC:81:ALA:HB3	1:dC:138:LEU:HD11	1.80	0.62
1:WG:246:SER:HA	1:WG:265:ILE:O	1.99	0.62
1:WG:354:SER:HA	1:WG:363:PHE:CE2	2.34	0.62
1:UH:354:SER:HA	1:UH:363:PHE:CE2	2.34	0.62
1:UH:474:PHE:CE2	1:TP:5:VAL:HB	2.34	0.62
1:BJ:246:SER:HA	1:BJ:265:ILE:O	1.99	0.62
1:BJ:414:VAL:HG13	1:BJ:423:VAL:HG21	1.79	0.62
1:HL:81:ALA:CB	1:HL:138:LEU:HD11	2.29	0.62
1:XM:354:SER:HA	1:XM:363:PHE:CE2	2.34	0.62
1:DN:414:VAL:HG13	1:DN:423:VAL:HG21	1.79	0.62
1:VR:81:ALA:CB	1:VR:138:LEU:HD11	2.29	0.62
1:VR:246:SER:HA	1:VR:265:ILE:O	1.99	0.62
1:VR:354:SER:HA	1:VR:363:PHE:CE2	2.34	0.62
1:Q2:354:SER:HA	1:Q2:363:PHE:CE2	2.34	0.62
1:I3:474:PHE:CE2	1:HL:5:VAL:HB	2.33	0.62
1:S5:59:SER:HB3	1:TP:94:VAL:HG21	1.81	0.62
1:A7:9:ILE:HD11	1:BJ:464:ALA:HA	1.82	0.62
1:WG:81:ALA:CB	1:WG:138:LEU:HD11	2.29	0.62
1:UH:81:ALA:CB	1:UH:138:LEU:HD11	2.29	0.62
1:TP:81:ALA:CB	1:TP:138:LEU:HD11	2.29	0.62
1:GQ:246:SER:HA	1:GQ:265:ILE:O	1.99	0.62
1:bS:474:PHE:CE2	1:cV:5:VAL:HB	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cV:354:SER:HA	1:cV:363:PHE:CE2	2.34	0.62
1:Y1:354:SER:HA	1:Y1:363:PHE:CE2	2.34	0.62
1:R4:354:SER:HA	1:R4:363:PHE:CE2	2.35	0.62
1:Z9:354:SER:HA	1:Z9:363:PHE:CE2	2.34	0.62
1:dC:354:SER:HA	1:dC:363:PHE:CE2	2.34	0.62
1:JD:431:MET:HE1	1:KE:56:SER:OG	1.99	0.62
1:JD:464:ALA:HA	1:KE:9:ILE:HD11	1.82	0.62
1:KE:431:MET:HE1	1:LF:56:SER:OG	1.99	0.62
1:XM:246:SER:HA	1:XM:265:ILE:O	1.99	0.62
1:bS:81:ALA:HB3	1:bS:138:LEU:HD11	1.80	0.62
1:PU:81:ALA:HB3	1:PU:138:LEU:HD11	1.80	0.62
1:PU:354:SER:HA	1:PU:363:PHE:CE2	2.34	0.62
1:cV:81:ALA:HB3	1:cV:138:LEU:HD11	1.80	0.62
1:Q2:5:VAL:HB	1:PU:474:PHE:CE2	2.34	0.62
1:Q2:81:ALA:HB3	1:Q2:138:LEU:HD11	1.80	0.62
1:R4:81:ALA:HB3	1:R4:138:LEU:HD11	1.80	0.62
1:A7:354:SER:HA	1:A7:363:PHE:CE2	2.34	0.62
1:dC:246:SER:HA	1:dC:265:ILE:O	1.99	0.62
1:KE:80:LYS:HG3	1:GQ:457:ILE:CG2	2.30	0.62
1:UH:94:VAL:HG21	1:TP:59:SER:HB3	1.81	0.62
1:HL:246:SER:HA	1:HL:265:ILE:O	1.99	0.62
1:XM:81:ALA:CB	1:XM:138:LEU:HD11	2.29	0.62
1:DN:474:PHE:CE2	1:EX:5:VAL:HB	2.34	0.62
1:CT:246:SER:HA	1:CT:265:ILE:O	1.99	0.62
1:cV:246:SER:HA	1:cV:265:ILE:O	1.99	0.62
1:aW:354:SER:HA	1:aW:363:PHE:CE2	2.34	0.62
1:EX:354:SER:HA	1:EX:363:PHE:CE2	2.34	0.62
1:I3:246:SER:HA	1:I3:265:ILE:O	1.99	0.62
1:I3:354:SER:HA	1:I3:363:PHE:CE2	2.34	0.62
1:FB:354:SER:HA	1:FB:363:PHE:CE2	2.34	0.62
1:BJ:354:SER:HA	1:BJ:363:PHE:CE2	2.34	0.62
1:fK:457:ILE:CG2	1:CT:80:LYS:HG3	2.28	0.62
1:DN:354:SER:HA	1:DN:363:PHE:CE2	2.35	0.62
1:MO:246:SER:HA	1:MO:265:ILE:O	1.99	0.62
1:bS:246:SER:HA	1:bS:265:ILE:O	1.99	0.62
1:aW:81:ALA:CB	1:aW:138:LEU:HD11	2.29	0.62
1:Y1:81:ALA:CB	1:Y1:138:LEU:HD11	2.29	0.62
1:S5:246:SER:HA	1:S5:265:ILE:O	1.99	0.62
1:g6:94:VAL:HG21	1:fK:59:SER:HB3	1.81	0.62
1:e8:5:VAL:HB	1:fK:474:PHE:CE2	2.34	0.62
1:MO:354:SER:HB3	1:MO:359:GLN:HE22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:354:SER:HB3	1:bS:359:GLN:HE22	1.64	0.62
1:bS:431:MET:HE1	1:cV:56:SER:OG	2.00	0.62
1:CT:354:SER:HA	1:CT:363:PHE:CE2	2.34	0.62
1:Y1:89:LEU:CD1	1:Y1:434:LEU:HD12	2.30	0.62
1:Q2:56:SER:OG	1:PU:431:MET:HE1	1.99	0.62
1:Z9:81:ALA:CB	1:Z9:138:LEU:HD11	2.29	0.62
1:Z9:89:LEU:CD1	1:Z9:434:LEU:HD12	2.30	0.62
1:dC:354:SER:HB3	1:dC:359:GLN:HE22	1.64	0.62
1:WG:94:VAL:HG21	1:XM:59:SER:HB3	1.81	0.62
1:NI:246:SER:HA	1:NI:265:ILE:O	1.99	0.62
1:NI:354:SER:HB3	1:NI:359:GLN:HE22	1.64	0.62
1:HL:354:SER:HA	1:HL:363:PHE:CE2	2.34	0.62
1:DN:431:MET:HE1	1:EX:56:SER:OG	1.99	0.62
1:cV:354:SER:HB3	1:cV:359:GLN:HE22	1.64	0.62
1:Q2:59:SER:HB3	1:PU:94:VAL:HG21	1.82	0.62
1:R4:81:ALA:CB	1:R4:138:LEU:HD11	2.29	0.62
1:e8:59:SER:HB3	1:fK:94:VAL:HG21	1.81	0.62
1:Z9:59:SER:HB3	1:aW:94:VAL:HG21	1.81	0.62
1:BJ:56:SER:OG	1:CT:431:MET:HE1	1.99	0.62
1:HL:80:LYS:HG3	1:EX:457:ILE:CG2	2.30	0.62
1:HL:474:PHE:CE2	1:GQ:5:VAL:HB	2.34	0.62
1:TP:246:SER:HA	1:TP:265:ILE:O	1.99	0.62
1:GQ:354:SER:HA	1:GQ:363:PHE:CE2	2.34	0.62
1:aW:89:LEU:CD1	1:aW:434:LEU:HD12	2.30	0.62
1:Q2:89:LEU:CD1	1:Q2:434:LEU:HD12	2.30	0.61
1:R4:89:LEU:CD1	1:R4:434:LEU:HD12	2.30	0.61
1:R4:457:ILE:CG2	1:S5:80:LYS:HG3	2.30	0.61
1:OA:72:MET:HE2	1:OA:452:VAL:HG21	1.82	0.61
1:OA:246:SER:HA	1:OA:265:ILE:O	1.99	0.61
1:OA:354:SER:HB3	1:OA:359:GLN:HE22	1.64	0.61
1:OA:474:PHE:CE2	1:NI:5:VAL:HB	2.34	0.61
1:FB:457:ILE:CG2	1:GQ:80:LYS:HG3	2.29	0.61
1:KE:72:MET:HE2	1:KE:452:VAL:HG21	1.82	0.61
1:KE:354:SER:HA	1:KE:363:PHE:CE2	2.34	0.61
1:KE:506:LEU:O	1:KE:509:LEU:HD23	2.00	0.61
1:LF:354:SER:HA	1:LF:363:PHE:CE2	2.35	0.61
1:LF:506:LEU:O	1:LF:509:LEU:HD23	2.00	0.61
1:UH:246:SER:HA	1:UH:265:ILE:O	1.99	0.61
1:NI:72:MET:HE2	1:NI:452:VAL:HG21	1.82	0.61
1:DN:80:LYS:HG3	1:CT:457:ILE:CG2	2.30	0.61
1:VR:506:LEU:O	1:VR:509:LEU:HD23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:89:LEU:CD1	1:PU:434:LEU:HD12	2.30	0.61
1:R4:72:MET:HE2	1:R4:452:VAL:HG21	1.82	0.61
1:S5:81:ALA:HB3	1:S5:138:LEU:HD11	1.80	0.61
1:S5:230:VAL:HG22	1:S5:344:ARG:HG2	1.83	0.61
1:g6:89:LEU:CD1	1:g6:434:LEU:HD12	2.30	0.61
1:g6:354:SER:HA	1:g6:363:PHE:CE2	2.34	0.61
1:e8:89:LEU:CD1	1:e8:434:LEU:HD12	2.30	0.61
1:Z9:9:ILE:HD11	1:aW:464:ALA:HA	1.81	0.61
1:JD:506:LEU:O	1:JD:509:LEU:HD23	2.00	0.61
1:LF:72:MET:HE2	1:LF:452:VAL:HG21	1.82	0.61
1:LF:230:VAL:HG22	1:LF:344:ARG:HG2	1.82	0.61
1:WG:506:LEU:O	1:WG:509:LEU:HD23	2.01	0.61
1:fK:89:LEU:CD1	1:fK:434:LEU:HD12	2.30	0.61
1:XM:506:LEU:O	1:XM:509:LEU:HD23	2.01	0.61
1:MO:72:MET:HE2	1:MO:452:VAL:HG21	1.82	0.61
1:TP:81:ALA:HB3	1:TP:138:LEU:HD11	1.80	0.61
1:TP:230:VAL:HG22	1:TP:344:ARG:HG2	1.83	0.61
1:aW:81:ALA:HB3	1:aW:138:LEU:HD11	1.80	0.61
1:Q2:72:MET:HE2	1:Q2:452:VAL:HG21	1.82	0.61
1:Q2:464:ALA:HA	1:R4:9:ILE:HD11	1.82	0.61
1:R4:354:SER:HB3	1:R4:359:GLN:HE22	1.64	0.61
1:e8:354:SER:HA	1:e8:363:PHE:CE2	2.34	0.61
1:Z9:81:ALA:HB3	1:Z9:138:LEU:HD11	1.80	0.61
1:Z9:354:SER:HB3	1:Z9:359:GLN:HE22	1.64	0.61
1:OA:431:MET:HE1	1:NI:56:SER:OG	2.00	0.61
1:FB:506:LEU:O	1:FB:509:LEU:HD23	2.01	0.61
1:dC:56:SER:OG	1:cV:431:MET:HE1	2.00	0.61
1:JD:72:MET:HE2	1:JD:452:VAL:HG21	1.82	0.61
1:JD:230:VAL:HG22	1:JD:344:ARG:HG2	1.83	0.61
1:KE:230:VAL:HG22	1:KE:344:ARG:HG2	1.83	0.61
1:WG:9:ILE:HD11	1:VR:464:ALA:HA	1.82	0.61
1:UH:81:ALA:HB3	1:UH:138:LEU:HD11	1.80	0.61
1:UH:354:SER:HB3	1:UH:359:GLN:HE22	1.64	0.61
1:NI:431:MET:HE1	1:MO:56:SER:OG	2.00	0.61
1:fK:354:SER:HA	1:fK:363:PHE:CE2	2.34	0.61
1:XM:89:LEU:CD1	1:XM:434:LEU:HD12	2.30	0.61
1:TP:354:SER:HB3	1:TP:359:GLN:HE22	1.64	0.61
1:VR:89:LEU:CD1	1:VR:434:LEU:HD12	2.30	0.61
1:aW:354:SER:HB3	1:aW:359:GLN:HE22	1.64	0.61
1:EX:506:LEU:O	1:EX:509:LEU:HD23	2.01	0.61
1:Y1:81:ALA:HB3	1:Y1:138:LEU:HD11	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:81:ALA:CB	1:Q2:138:LEU:HD11	2.29	0.61
1:Q2:354:SER:HB3	1:Q2:359:GLN:HE22	1.64	0.61
1:I3:230:VAL:HG22	1:I3:344:ARG:HG2	1.82	0.61
1:S5:354:SER:HB3	1:S5:359:GLN:HE22	1.64	0.61
1:Z9:506:LEU:O	1:Z9:509:LEU:HD23	2.00	0.61
1:JD:354:SER:HA	1:JD:363:PHE:CE2	2.34	0.61
1:WG:89:LEU:CD1	1:WG:434:LEU:HD12	2.30	0.61
1:UH:230:VAL:HG22	1:UH:344:ARG:HG2	1.83	0.61
1:DN:506:LEU:O	1:DN:509:LEU:HD23	2.01	0.61
1:PU:72:MET:HE2	1:PU:452:VAL:HG21	1.82	0.61
1:aW:506:LEU:O	1:aW:509:LEU:HD23	2.01	0.61
1:Y1:354:SER:HB3	1:Y1:359:GLN:HE22	1.64	0.61
1:Q2:506:LEU:O	1:Q2:509:LEU:HD23	2.00	0.61
1:R4:506:LEU:O	1:R4:509:LEU:HD23	2.01	0.61
1:g6:506:LEU:O	1:g6:509:LEU:HD23	2.00	0.61
1:e8:506:LEU:O	1:e8:509:LEU:HD23	2.01	0.61
1:dC:59:SER:HB3	1:cV:94:VAL:HG21	1.81	0.61
1:BJ:457:ILE:CG2	1:EX:80:LYS:HG3	2.31	0.61
1:fK:506:LEU:O	1:fK:509:LEU:HD23	2.01	0.61
1:HL:230:VAL:HG22	1:HL:344:ARG:HG2	1.83	0.61
1:GQ:230:VAL:HG22	1:GQ:344:ARG:HG2	1.82	0.61
1:PU:81:ALA:CB	1:PU:138:LEU:HD11	2.29	0.61
1:Y1:506:LEU:O	1:Y1:509:LEU:HD23	2.01	0.61
1:Q2:431:MET:HE1	1:R4:56:SER:OG	2.00	0.61
1:e8:56:SER:OG	1:fK:431:MET:HE1	2.00	0.61
1:HL:72:MET:HE2	1:HL:452:VAL:HG21	1.82	0.61
1:GQ:72:MET:HE2	1:GQ:452:VAL:HG21	1.82	0.61
1:bS:230:VAL:HG22	1:bS:344:ARG:HG2	1.83	0.61
1:PU:354:SER:HB3	1:PU:359:GLN:HE22	1.64	0.61
1:PU:506:LEU:O	1:PU:509:LEU:HD23	2.01	0.61
1:Y1:45:ALA:HB1	1:Z9:439:SER:HA	1.83	0.61
1:I3:72:MET:HE2	1:I3:452:VAL:HG21	1.82	0.61
1:S5:56:SER:OG	1:TP:431:MET:HE1	2.00	0.61
1:g6:80:LYS:HG3	1:bS:457:ILE:CG2	2.31	0.61
1:FB:9:ILE:HD11	1:EX:464:ALA:HA	1.83	0.61
1:KE:89:LEU:CD1	1:KE:434:LEU:HD12	2.30	0.61
1:UH:431:MET:HE1	1:TP:56:SER:OG	2.00	0.61
1:NI:506:LEU:O	1:NI:509:LEU:HD23	2.00	0.61
1:BJ:236:VAL:HB	1:BJ:301:SER:HB3	1.83	0.61
1:TP:72:MET:HE2	1:TP:452:VAL:HG21	1.82	0.61
1:VR:354:SER:HB3	1:VR:359:GLN:HE22	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:94:VAL:HG21	1:cV:59:SER:HB3	1.81	0.61
1:PU:230:VAL:HG22	1:PU:344:ARG:HG2	1.83	0.61
1:cV:230:VAL:HG22	1:cV:344:ARG:HG2	1.83	0.61
1:Y1:56:SER:OG	1:Z9:431:MET:HE1	2.00	0.61
1:Q2:230:VAL:HG22	1:Q2:344:ARG:HG2	1.82	0.61
1:S5:72:MET:HE2	1:S5:452:VAL:HG21	1.82	0.61
1:S5:89:LEU:CD1	1:S5:434:LEU:HD12	2.30	0.61
1:S5:138:LEU:HB3	1:S5:164:THR:OG1	2.01	0.61
1:S5:506:LEU:O	1:S5:509:LEU:HD23	2.01	0.61
1:A7:236:VAL:HB	1:A7:301:SER:HB3	1.83	0.61
1:A7:506:LEU:O	1:A7:509:LEU:HD23	2.00	0.61
1:OA:506:LEU:O	1:OA:509:LEU:HD23	2.01	0.61
1:FB:89:LEU:CD1	1:FB:434:LEU:HD12	2.30	0.61
1:FB:236:VAL:HB	1:FB:301:SER:HB3	1.83	0.61
1:dC:230:VAL:HG22	1:dC:344:ARG:HG2	1.83	0.61
1:JD:89:LEU:CD1	1:JD:434:LEU:HD12	2.30	0.61
1:LF:89:LEU:CD1	1:LF:434:LEU:HD12	2.30	0.61
1:WG:354:SER:HB3	1:WG:359:GLN:HE22	1.64	0.61
1:UH:89:LEU:CD1	1:UH:434:LEU:HD12	2.30	0.61
1:UH:287:VAL:HG21	1:UH:307:ILE:HG12	1.83	0.61
1:XM:354:SER:HB3	1:XM:359:GLN:HE22	1.64	0.61
1:DN:94:VAL:HG21	1:EX:59:SER:HB3	1.83	0.61
1:MO:506:LEU:O	1:MO:509:LEU:HD23	2.01	0.61
1:TP:89:LEU:CD1	1:TP:434:LEU:HD12	2.30	0.61
1:TP:138:LEU:HB3	1:TP:164:THR:OG1	2.01	0.61
1:TP:287:VAL:HG21	1:TP:307:ILE:HG12	1.83	0.61
1:CT:236:VAL:HB	1:CT:301:SER:HB3	1.83	0.61
1:CT:506:LEU:O	1:CT:509:LEU:HD23	2.01	0.61
1:R4:230:VAL:HG22	1:R4:344:ARG:HG2	1.82	0.61
1:S5:287:VAL:HG21	1:S5:307:ILE:HG12	1.83	0.61
1:FB:72:MET:HE2	1:FB:452:VAL:HG21	1.82	0.61
1:LF:61:LEU:CD2	1:LF:455:ILE:HD12	2.31	0.61
1:WG:138:LEU:HB3	1:WG:164:THR:OG1	2.01	0.61
1:WG:431:MET:HE1	1:XM:56:SER:OG	2.00	0.61
1:UH:72:MET:HE2	1:UH:452:VAL:HG21	1.82	0.61
1:UH:138:LEU:HB3	1:UH:164:THR:OG1	2.01	0.61
1:BJ:59:SER:HB3	1:CT:94:VAL:HG21	1.83	0.61
1:BJ:506:LEU:O	1:BJ:509:LEU:HD23	2.01	0.61
1:XM:138:LEU:HB3	1:XM:164:THR:OG1	2.01	0.61
1:DN:89:LEU:CD1	1:DN:434:LEU:HD12	2.30	0.61
1:TP:506:LEU:O	1:TP:509:LEU:HD23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:138:LEU:HB3	1:VR:164:THR:OG1	2.01	0.61
1:EX:89:LEU:CD1	1:EX:434:LEU:HD12	2.30	0.61
1:EX:236:VAL:HB	1:EX:301:SER:HB3	1.83	0.61
1:R4:287:VAL:HG21	1:R4:307:ILE:HG12	1.82	0.61
1:A7:287:VAL:HG21	1:A7:307:ILE:HG12	1.82	0.61
1:e8:236:VAL:HB	1:e8:301:SER:HB3	1.83	0.61
1:Z9:80:LYS:HG3	1:WG:457:ILE:CG2	2.31	0.61
1:FB:56:SER:OG	1:EX:431:MET:HE1	2.00	0.61
1:JD:61:LEU:CD2	1:JD:455:ILE:HD12	2.31	0.61
1:KE:61:LEU:CD2	1:KE:455:ILE:HD12	2.31	0.61
1:UH:506:LEU:O	1:UH:509:LEU:HD23	2.01	0.61
1:fK:236:VAL:HB	1:fK:301:SER:HB3	1.83	0.61
1:VR:287:VAL:HG21	1:VR:307:ILE:HG12	1.83	0.61
1:PU:287:VAL:HG21	1:PU:307:ILE:HG12	1.82	0.61
1:aW:230:VAL:HG22	1:aW:344:ARG:HG2	1.82	0.61
1:Q2:287:VAL:HG21	1:Q2:307:ILE:HG12	1.83	0.60
1:I3:61:LEU:CD2	1:I3:455:ILE:HD12	2.31	0.60
1:I3:506:LEU:O	1:I3:509:LEU:HD23	2.01	0.60
1:g6:236:VAL:HB	1:g6:301:SER:HB3	1.83	0.60
1:e8:230:VAL:HG22	1:e8:344:ARG:HG2	1.83	0.60
1:WG:287:VAL:HG21	1:WG:307:ILE:HG12	1.83	0.60
1:BJ:287:VAL:HG21	1:BJ:307:ILE:HG12	1.82	0.60
1:HL:506:LEU:O	1:HL:509:LEU:HD23	2.01	0.60
1:XM:230:VAL:HG22	1:XM:344:ARG:HG2	1.82	0.60
1:XM:287:VAL:HG21	1:XM:307:ILE:HG12	1.83	0.60
1:DN:236:VAL:HB	1:DN:301:SER:HB3	1.83	0.60
1:CT:287:VAL:HG21	1:CT:307:ILE:HG12	1.83	0.60
1:EX:72:MET:HE2	1:EX:452:VAL:HG21	1.82	0.60
1:g6:230:VAL:HG22	1:g6:344:ARG:HG2	1.82	0.60
1:e8:9:ILE:HD11	1:fK:464:ALA:HA	1.83	0.60
1:e8:287:VAL:HG21	1:e8:307:ILE:HG12	1.82	0.60
1:Z9:230:VAL:HG22	1:Z9:344:ARG:HG2	1.83	0.60
1:OA:94:VAL:HG21	1:NI:59:SER:HB3	1.84	0.60
1:HL:61:LEU:CD2	1:HL:455:ILE:HD12	2.31	0.60
1:GQ:236:VAL:HB	1:GQ:301:SER:HB3	1.83	0.60
1:PU:138:LEU:HB3	1:PU:164:THR:OG1	2.01	0.60
1:Y1:138:LEU:HB3	1:Y1:164:THR:OG1	2.01	0.60
1:Q2:138:LEU:HB3	1:Q2:164:THR:OG1	2.01	0.60
1:g6:287:VAL:HG21	1:g6:307:ILE:HG12	1.83	0.60
1:Z9:138:LEU:HB3	1:Z9:164:THR:OG1	2.01	0.60
1:OA:80:LYS:HG3	1:JD:457:ILE:CG2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:236:VAL:HB	1:dC:301:SER:HB3	1.83	0.60
1:fK:230:VAL:HG22	1:fK:344:ARG:HG2	1.83	0.60
1:fK:287:VAL:HG21	1:fK:307:ILE:HG12	1.83	0.60
1:DN:72:MET:HE2	1:DN:452:VAL:HG21	1.82	0.60
1:GQ:61:LEU:CD2	1:GQ:455:ILE:HD12	2.31	0.60
1:GQ:506:LEU:O	1:GQ:509:LEU:HD23	2.01	0.60
1:bS:89:LEU:CD1	1:bS:434:LEU:HD12	2.30	0.60
1:cV:89:LEU:CD1	1:cV:434:LEU:HD12	2.30	0.60
1:Y1:230:VAL:HG22	1:Y1:344:ARG:HG2	1.83	0.60
1:I3:236:VAL:HB	1:I3:301:SER:HB3	1.83	0.60
1:dC:89:LEU:CD1	1:dC:434:LEU:HD12	2.30	0.60
1:LF:457:ILE:CG2	1:MO:80:LYS:HG3	2.31	0.60
1:WG:230:VAL:HG22	1:WG:344:ARG:HG2	1.83	0.60
1:UH:80:LYS:HG3	1:PU:457:ILE:CG2	2.31	0.60
1:HL:236:VAL:HB	1:HL:301:SER:HB3	1.83	0.60
1:CT:281:VAL:O	1:CT:285:THR:HG23	2.02	0.60
1:aW:138:LEU:HB3	1:aW:164:THR:OG1	2.01	0.60
1:aW:287:VAL:HG21	1:aW:307:ILE:HG12	1.82	0.60
1:Y1:287:VAL:HG21	1:Y1:307:ILE:HG12	1.82	0.60
1:R4:138:LEU:HB3	1:R4:164:THR:OG1	2.01	0.60
1:S5:417:LEU:CD1	1:S5:421:MET:HE2	2.32	0.60
1:g6:417:LEU:CD1	1:g6:421:MET:HE2	2.32	0.60
1:A7:281:VAL:O	1:A7:285:THR:HG23	2.02	0.60
1:e8:417:LEU:CD1	1:e8:421:MET:HE2	2.32	0.60
1:Z9:287:VAL:HG21	1:Z9:307:ILE:HG12	1.83	0.60
1:WG:72:MET:HE2	1:WG:452:VAL:HG21	1.82	0.60
1:UH:417:LEU:CD1	1:UH:421:MET:HE2	2.32	0.60
1:BJ:281:VAL:O	1:BJ:285:THR:HG23	2.02	0.60
1:fK:417:LEU:CD1	1:fK:421:MET:HE2	2.32	0.60
1:MO:230:VAL:HG22	1:MO:344:ARG:HG2	1.83	0.60
1:MO:287:VAL:HG21	1:MO:307:ILE:HG12	1.82	0.60
1:bS:506:LEU:O	1:bS:509:LEU:HD23	2.01	0.60
1:cV:236:VAL:HB	1:cV:301:SER:HB3	1.83	0.60
1:I3:464:ALA:HA	1:HL:9:ILE:HD11	1.82	0.60
1:A7:89:LEU:CD1	1:A7:434:LEU:HD12	2.30	0.60
1:Z9:45:ALA:HB1	1:aW:439:SER:HA	1.84	0.60
1:OA:281:VAL:O	1:OA:285:THR:HG23	2.02	0.60
1:OA:287:VAL:HG21	1:OA:307:ILE:HG12	1.83	0.60
1:FB:138:LEU:HB3	1:FB:164:THR:OG1	2.01	0.60
1:FB:287:VAL:HG21	1:FB:307:ILE:HG12	1.82	0.60
1:dC:506:LEU:O	1:dC:509:LEU:HD23	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:281:VAL:O	1:JD:285:THR:HG23	2.02	0.60
1:KE:236:VAL:HB	1:KE:301:SER:HB3	1.83	0.60
1:KE:281:VAL:O	1:KE:285:THR:HG23	2.02	0.60
1:LF:236:VAL:HB	1:LF:301:SER:HB3	1.83	0.60
1:LF:281:VAL:O	1:LF:285:THR:HG23	2.02	0.60
1:WG:417:LEU:CD1	1:WG:421:MET:HE2	2.32	0.60
1:NI:230:VAL:HG22	1:NI:344:ARG:HG2	1.82	0.60
1:NI:287:VAL:HG21	1:NI:307:ILE:HG12	1.82	0.60
1:BJ:89:LEU:CD1	1:BJ:434:LEU:HD12	2.30	0.60
1:XM:72:MET:HE2	1:XM:452:VAL:HG21	1.82	0.60
1:XM:417:LEU:CD1	1:XM:421:MET:HE2	2.32	0.60
1:TP:417:LEU:CD1	1:TP:421:MET:HE2	2.32	0.60
1:VR:72:MET:HE2	1:VR:452:VAL:HG21	1.82	0.60
1:VR:230:VAL:HG22	1:VR:344:ARG:HG2	1.83	0.60
1:bS:417:LEU:CD1	1:bS:421:MET:HE2	2.32	0.60
1:cV:506:LEU:O	1:cV:509:LEU:HD23	2.01	0.60
1:EX:138:LEU:HB3	1:EX:164:THR:OG1	2.01	0.60
1:EX:287:VAL:HG21	1:EX:307:ILE:HG12	1.82	0.60
1:Y1:72:MET:HE2	1:Y1:452:VAL:HG21	1.82	0.60
1:Y1:457:ILE:CG2	1:cV:80:LYS:HG3	2.32	0.60
1:I3:281:VAL:O	1:I3:285:THR:HG23	2.02	0.60
1:g6:105:THR:HG21	1:fK:133:ASN:O	2.02	0.60
1:A7:72:MET:HE2	1:A7:452:VAL:HG21	1.82	0.60
1:e8:457:ILE:CG2	1:BJ:80:LYS:HG3	2.31	0.60
1:Z9:72:MET:HE2	1:Z9:452:VAL:HG21	1.82	0.60
1:NI:281:VAL:O	1:NI:285:THR:HG23	2.02	0.60
1:HL:281:VAL:O	1:HL:285:THR:HG23	2.02	0.60
1:DN:138:LEU:HB3	1:DN:164:THR:OG1	2.01	0.60
1:MO:281:VAL:O	1:MO:285:THR:HG23	2.02	0.60
1:GQ:281:VAL:O	1:GQ:285:THR:HG23	2.02	0.60
1:VR:417:LEU:CD1	1:VR:421:MET:HE2	2.32	0.60
1:bS:236:VAL:HB	1:bS:301:SER:HB3	1.83	0.60
1:CT:89:LEU:CD1	1:CT:434:LEU:HD12	2.30	0.60
1:aW:72:MET:HE2	1:aW:452:VAL:HG21	1.82	0.60
1:Q2:80:LYS:HG3	1:MO:457:ILE:CG2	2.32	0.60
1:g6:72:MET:HE2	1:g6:452:VAL:HG21	1.82	0.60
1:g6:281:VAL:O	1:g6:285:THR:HG23	2.02	0.60
1:g6:439:SER:HA	1:fK:45:ALA:HB1	1.84	0.60
1:JD:236:VAL:HB	1:JD:301:SER:HB3	1.83	0.60
1:LF:417:LEU:CD1	1:LF:421:MET:HE2	2.32	0.60
1:BJ:46:SER:CB	1:DN:112:ILE:HG12	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:72:MET:HE2	1:BJ:452:VAL:HG21	1.82	0.60
1:DN:61:LEU:CD2	1:DN:455:ILE:HD12	2.31	0.60
1:DN:281:VAL:O	1:DN:285:THR:HG23	2.02	0.60
1:cV:417:LEU:CD1	1:cV:421:MET:HE2	2.32	0.60
1:Y1:84:GLU:HG2	1:XM:454:ASN:HB2	1.84	0.60
1:I3:417:LEU:CD1	1:I3:421:MET:HE2	2.32	0.60
1:S5:354:SER:H	1:S5:359:GLN:HE21	1.50	0.60
1:e8:45:ALA:HB1	1:fK:439:SER:HA	1.84	0.60
1:e8:72:MET:HE2	1:e8:452:VAL:HG21	1.82	0.60
1:FB:61:LEU:CD2	1:FB:455:ILE:HD12	2.31	0.60
1:FB:281:VAL:O	1:FB:285:THR:HG23	2.02	0.60
1:dC:417:LEU:CD1	1:dC:421:MET:HE2	2.32	0.60
1:JD:417:LEU:CD1	1:JD:421:MET:HE2	2.32	0.60
1:KE:417:LEU:CD1	1:KE:421:MET:HE2	2.32	0.60
1:UH:354:SER:H	1:UH:359:GLN:HE21	1.50	0.60
1:fK:281:VAL:O	1:fK:285:THR:HG23	2.02	0.60
1:HL:89:LEU:CD1	1:HL:434:LEU:HD12	2.30	0.60
1:HL:417:LEU:CD1	1:HL:421:MET:HE2	2.32	0.60
1:DN:230:VAL:HG22	1:DN:344:ARG:HG2	1.83	0.60
1:DN:287:VAL:HG21	1:DN:307:ILE:HG12	1.83	0.60
1:MO:236:VAL:HB	1:MO:301:SER:HB3	1.83	0.60
1:GQ:89:LEU:CD1	1:GQ:434:LEU:HD12	2.30	0.60
1:GQ:417:LEU:CD1	1:GQ:421:MET:HE2	2.32	0.60
1:bS:72:MET:HE2	1:bS:452:VAL:HG21	1.82	0.60
1:bS:281:VAL:O	1:bS:285:THR:HG23	2.02	0.60
1:cV:72:MET:HE2	1:cV:452:VAL:HG21	1.82	0.60
1:EX:61:LEU:CD2	1:EX:455:ILE:HD12	2.31	0.60
1:EX:281:VAL:O	1:EX:285:THR:HG23	2.02	0.60
1:Q2:281:VAL:O	1:Q2:285:THR:HG23	2.02	0.60
1:I3:89:LEU:CD1	1:I3:434:LEU:HD12	2.30	0.60
1:g6:138:LEU:HB3	1:g6:164:THR:OG1	2.01	0.60
1:A7:56:SER:OG	1:BJ:431:MET:HE1	2.01	0.60
1:e8:138:LEU:HB3	1:e8:164:THR:OG1	2.01	0.60
1:e8:281:VAL:O	1:e8:285:THR:HG23	2.02	0.60
1:OA:230:VAL:HG22	1:OA:344:ARG:HG2	1.83	0.60
1:OA:236:VAL:HB	1:OA:301:SER:HB3	1.83	0.60
1:dC:138:LEU:HB3	1:dC:164:THR:OG1	2.01	0.60
1:BJ:230:VAL:HG22	1:BJ:344:ARG:HG2	1.82	0.60
1:fK:72:MET:HE2	1:fK:452:VAL:HG21	1.82	0.60
1:fK:138:LEU:HB3	1:fK:164:THR:OG1	2.01	0.60
1:TP:354:SER:H	1:TP:359:GLN:HE21	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:287:VAL:HG21	1:bS:307:ILE:HG12	1.82	0.60
1:CT:72:MET:HE2	1:CT:452:VAL:HG21	1.82	0.60
1:PU:281:VAL:O	1:PU:285:THR:HG23	2.02	0.60
1:cV:281:VAL:O	1:cV:285:THR:HG23	2.02	0.60
1:EX:230:VAL:HG22	1:EX:344:ARG:HG2	1.82	0.60
1:Y1:236:VAL:HB	1:Y1:301:SER:HB3	1.83	0.59
1:R4:281:VAL:O	1:R4:285:THR:HG23	2.02	0.59
1:A7:230:VAL:HG22	1:A7:344:ARG:HG2	1.83	0.59
1:Z9:281:VAL:O	1:Z9:285:THR:HG23	2.02	0.59
1:OA:89:LEU:CD1	1:OA:434:LEU:HD12	2.30	0.59
1:OA:109:ARG:HD2	1:OA:415:THR:O	2.02	0.59
1:OA:138:LEU:HB3	1:OA:164:THR:OG1	2.01	0.59
1:dC:72:MET:HE2	1:dC:452:VAL:HG21	1.82	0.59
1:dC:281:VAL:O	1:dC:285:THR:HG23	2.02	0.59
1:NI:109:ARG:HD2	1:NI:415:THR:O	2.02	0.59
1:NI:454:ASN:HB2	1:PU:84:GLU:HG2	1.84	0.59
1:HL:464:ALA:HA	1:GQ:9:ILE:HD11	1.83	0.59
1:MO:89:LEU:CD1	1:MO:434:LEU:HD12	2.30	0.59
1:MO:109:ARG:HD2	1:MO:415:THR:O	2.02	0.59
1:bS:138:LEU:HB3	1:bS:164:THR:OG1	2.01	0.59
1:cV:138:LEU:HB3	1:cV:164:THR:OG1	2.01	0.59
1:cV:287:VAL:HG21	1:cV:307:ILE:HG12	1.82	0.59
1:aW:236:VAL:HB	1:aW:301:SER:HB3	1.83	0.59
1:aW:281:VAL:O	1:aW:285:THR:HG23	2.02	0.59
1:Y1:281:VAL:O	1:Y1:285:THR:HG23	2.02	0.59
1:I3:109:ARG:HD2	1:I3:415:THR:O	2.02	0.59
1:I3:112:ILE:HG12	1:EX:46:SER:CB	2.32	0.59
1:R4:354:SER:H	1:R4:359:GLN:HE21	1.50	0.59
1:Z9:133:ASN:O	1:aW:105:THR:HG21	2.02	0.59
1:FB:109:ARG:HD2	1:FB:415:THR:O	2.02	0.59
1:dC:287:VAL:HG21	1:dC:307:ILE:HG12	1.82	0.59
1:NI:89:LEU:CD1	1:NI:434:LEU:HD12	2.30	0.59
1:NI:138:LEU:HB3	1:NI:164:THR:OG1	2.01	0.59
1:NI:236:VAL:HB	1:NI:301:SER:HB3	1.83	0.59
1:HL:439:SER:HA	1:GQ:45:ALA:HB1	1.83	0.59
1:DN:417:LEU:CD1	1:DN:421:MET:HE2	2.32	0.59
1:MO:417:LEU:CD1	1:MO:421:MET:HE2	2.32	0.59
1:TP:457:ILE:CG2	1:VR:80:LYS:HG3	2.33	0.59
1:EX:417:LEU:CD1	1:EX:421:MET:HE2	2.32	0.59
1:Q2:354:SER:H	1:Q2:359:GLN:HE21	1.50	0.59
1:R4:236:VAL:HB	1:R4:301:SER:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:417:LEU:CD1	1:A7:421:MET:HE2	2.32	0.59
1:A7:457:ILE:CG2	1:FB:80:LYS:HG3	2.33	0.59
1:Z9:236:VAL:HB	1:Z9:301:SER:HB3	1.83	0.59
1:FB:417:LEU:CD1	1:FB:421:MET:HE2	2.32	0.59
1:WG:354:SER:H	1:WG:359:GLN:HE21	1.50	0.59
1:UH:281:VAL:O	1:UH:285:THR:HG23	2.02	0.59
1:UH:439:SER:HA	1:TP:45:ALA:HB1	1.84	0.59
1:BJ:417:LEU:CD1	1:BJ:421:MET:HE2	2.32	0.59
1:HL:109:ARG:HD2	1:HL:415:THR:O	2.02	0.59
1:MO:138:LEU:HB3	1:MO:164:THR:OG1	2.01	0.59
1:VR:281:VAL:O	1:VR:285:THR:HG23	2.02	0.59
1:VR:354:SER:H	1:VR:359:GLN:HE21	1.50	0.59
1:CT:138:LEU:HB3	1:CT:164:THR:OG1	2.01	0.59
1:CT:230:VAL:HG22	1:CT:344:ARG:HG2	1.82	0.59
1:PU:354:SER:H	1:PU:359:GLN:HE21	1.50	0.59
1:EX:109:ARG:HD2	1:EX:415:THR:O	2.02	0.59
1:Q2:236:VAL:HB	1:Q2:301:SER:HB3	1.83	0.59
1:I3:138:LEU:HB3	1:I3:164:THR:OG1	2.01	0.59
1:S5:45:ALA:HB1	1:TP:439:SER:HA	1.84	0.59
1:S5:236:VAL:HB	1:S5:301:SER:HB3	1.83	0.59
1:S5:281:VAL:O	1:S5:285:THR:HG23	2.02	0.59
1:S5:457:ILE:CG2	1:WG:80:LYS:HG3	2.33	0.59
1:e8:109:ARG:HD2	1:e8:415:THR:O	2.02	0.59
1:Z9:61:LEU:CD2	1:Z9:455:ILE:HD12	2.31	0.59
1:FB:230:VAL:HG22	1:FB:344:ARG:HG2	1.83	0.59
1:WG:45:ALA:HB1	1:VR:439:SER:HA	1.83	0.59
1:WG:81:ALA:O	1:WG:85:GLN:HG3	2.03	0.59
1:NI:417:LEU:CD1	1:NI:421:MET:HE2	2.32	0.59
1:BJ:138:LEU:HB3	1:BJ:164:THR:OG1	2.01	0.59
1:XM:81:ALA:O	1:XM:85:GLN:HG3	2.03	0.59
1:XM:236:VAL:HB	1:XM:301:SER:HB3	1.83	0.59
1:XM:354:SER:H	1:XM:359:GLN:HE21	1.50	0.59
1:DN:105:THR:HG21	1:EX:133:ASN:O	2.02	0.59
1:DN:109:ARG:HD2	1:DN:415:THR:O	2.02	0.59
1:TP:281:VAL:O	1:TP:285:THR:HG23	2.02	0.59
1:GQ:109:ARG:HD2	1:GQ:415:THR:O	2.02	0.59
1:VR:81:ALA:O	1:VR:85:GLN:HG3	2.03	0.59
1:PU:236:VAL:HB	1:PU:301:SER:HB3	1.83	0.59
1:PU:417:LEU:CD1	1:PU:421:MET:HE2	2.32	0.59
1:aW:61:LEU:CD2	1:aW:455:ILE:HD12	2.31	0.59
1:Y1:61:LEU:CD2	1:Y1:455:ILE:HD12	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:354:SER:H	1:Y1:359:GLN:HE21	1.50	0.59
1:S5:81:ALA:O	1:S5:85:GLN:HG3	2.03	0.59
1:g6:61:LEU:CD2	1:g6:455:ILE:HD12	2.31	0.59
1:g6:109:ARG:HD2	1:g6:415:THR:O	2.02	0.59
1:A7:61:LEU:CD2	1:A7:455:ILE:HD12	2.31	0.59
1:OA:417:LEU:CD1	1:OA:421:MET:HE2	2.32	0.59
1:JD:287:VAL:HG21	1:JD:307:ILE:HG12	1.83	0.59
1:KE:287:VAL:HG21	1:KE:307:ILE:HG12	1.83	0.59
1:LF:287:VAL:HG21	1:LF:307:ILE:HG12	1.83	0.59
1:WG:236:VAL:HB	1:WG:301:SER:HB3	1.83	0.59
1:WG:281:VAL:O	1:WG:285:THR:HG23	2.02	0.59
1:UH:61:LEU:CD2	1:UH:455:ILE:HD12	2.31	0.59
1:BJ:46:SER:HB2	1:DN:112:ILE:HG12	1.84	0.59
1:BJ:61:LEU:CD2	1:BJ:455:ILE:HD12	2.31	0.59
1:fK:109:ARG:HD2	1:fK:415:THR:O	2.02	0.59
1:CT:61:LEU:CD2	1:CT:455:ILE:HD12	2.31	0.59
1:CT:417:LEU:CD1	1:CT:421:MET:HE2	2.32	0.59
1:Y1:9:ILE:HD11	1:Z9:464:ALA:HA	1.83	0.59
1:Q2:417:LEU:CD1	1:Q2:421:MET:HE2	2.32	0.59
1:S5:9:ILE:HD11	1:TP:464:ALA:HA	1.82	0.59
1:A7:138:LEU:HB3	1:A7:164:THR:OG1	2.01	0.59
1:e8:61:LEU:CD2	1:e8:455:ILE:HD12	2.31	0.59
1:Z9:81:ALA:O	1:Z9:85:GLN:HG3	2.03	0.59
1:fK:61:LEU:CD2	1:fK:455:ILE:HD12	2.31	0.59
1:HL:138:LEU:HB3	1:HL:164:THR:OG1	2.01	0.59
1:XM:281:VAL:O	1:XM:285:THR:HG23	2.02	0.59
1:TP:61:LEU:CD2	1:TP:455:ILE:HD12	2.31	0.59
1:TP:81:ALA:O	1:TP:85:GLN:HG3	2.03	0.59
1:TP:236:VAL:HB	1:TP:301:SER:HB3	1.83	0.59
1:GQ:138:LEU:HB3	1:GQ:164:THR:OG1	2.01	0.59
1:aW:81:ALA:O	1:aW:85:GLN:HG3	2.03	0.59
1:Y1:81:ALA:O	1:Y1:85:GLN:HG3	2.03	0.59
1:Y1:417:LEU:CD1	1:Y1:421:MET:HE2	2.32	0.59
1:I3:80:LYS:HG3	1:DN:457:ILE:CG2	2.33	0.59
1:R4:81:ALA:O	1:R4:85:GLN:HG3	2.03	0.59
1:S5:61:LEU:CD2	1:S5:455:ILE:HD12	2.31	0.59
1:Z9:354:SER:H	1:Z9:359:GLN:HE21	1.50	0.59
1:OA:105:THR:HG21	1:NI:133:ASN:O	2.02	0.59
1:OA:354:SER:H	1:OA:359:GLN:HE21	1.50	0.59
1:JD:84:GLU:HG2	1:HL:454:ASN:HB2	1.85	0.59
1:LF:109:ARG:HD2	1:LF:415:THR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:138:LEU:HB3	1:LF:164:THR:OG1	2.01	0.59
1:WG:61:LEU:CD2	1:WG:455:ILE:HD12	2.31	0.59
1:UH:81:ALA:O	1:UH:85:GLN:HG3	2.03	0.59
1:XM:61:LEU:CD2	1:XM:455:ILE:HD12	2.31	0.59
1:DN:84:GLU:HG2	1:CT:454:ASN:HB2	1.85	0.59
1:TP:109:ARG:HD2	1:TP:415:THR:O	2.02	0.59
1:VR:61:LEU:CD2	1:VR:455:ILE:HD12	2.31	0.59
1:VR:236:VAL:HB	1:VR:301:SER:HB3	1.83	0.59
1:Q2:46:SER:CB	1:UH:112:ILE:HG12	2.32	0.59
1:Q2:46:SER:HB2	1:UH:112:ILE:HG12	1.85	0.59
1:Q2:81:ALA:O	1:Q2:85:GLN:HG3	2.03	0.59
1:Q2:133:ASN:O	1:PU:105:THR:HG21	2.03	0.59
1:I3:439:SER:HA	1:HL:45:ALA:HB1	1.83	0.59
1:R4:417:LEU:CD1	1:R4:421:MET:HE2	2.32	0.59
1:S5:109:ARG:HD2	1:S5:415:THR:O	2.02	0.59
1:Z9:454:ASN:HB2	1:bS:84:GLU:HG2	1.85	0.59
1:KE:109:ARG:HD2	1:KE:415:THR:O	2.02	0.59
1:WG:46:SER:CB	1:aW:112:ILE:HG12	2.32	0.59
1:UH:109:ARG:HD2	1:UH:415:THR:O	2.02	0.59
1:NI:354:SER:H	1:NI:359:GLN:HE21	1.50	0.59
1:bS:81:ALA:O	1:bS:85:GLN:HG3	2.03	0.59
1:cV:311:THR:HG22	1:cV:330:LEU:HB3	1.85	0.59
1:aW:354:SER:H	1:aW:359:GLN:HE21	1.50	0.59
1:Y1:311:THR:HG22	1:Y1:330:LEU:HB3	1.85	0.59
1:I3:287:VAL:HG21	1:I3:307:ILE:HG12	1.82	0.59
1:e8:311:THR:HG22	1:e8:330:LEU:HB3	1.85	0.59
1:JD:138:LEU:HB3	1:JD:164:THR:OG1	2.01	0.59
1:KE:138:LEU:HB3	1:KE:164:THR:OG1	2.01	0.59
1:UH:236:VAL:HB	1:UH:301:SER:HB3	1.83	0.59
1:NI:439:SER:HA	1:MO:45:ALA:HB1	1.83	0.59
1:fK:80:LYS:HG3	1:cV:457:ILE:CG2	2.33	0.59
1:fK:311:THR:HG22	1:fK:330:LEU:HB3	1.85	0.59
1:aW:311:THR:HG22	1:aW:330:LEU:HB3	1.85	0.59
1:aW:417:LEU:CD1	1:aW:421:MET:HE2	2.32	0.59
1:Y1:354:SER:HB3	1:Y1:359:GLN:NE2	2.18	0.59
1:I3:81:ALA:O	1:I3:85:GLN:HG3	2.03	0.59
1:Z9:311:THR:HG22	1:Z9:330:LEU:HB3	1.85	0.59
1:Z9:354:SER:HB3	1:Z9:359:GLN:NE2	2.18	0.59
1:Z9:417:LEU:CD1	1:Z9:421:MET:HE2	2.32	0.59
1:Z9:457:ILE:HG21	1:bS:80:LYS:HB3	1.85	0.59
1:dC:311:THR:HG22	1:dC:330:LEU:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:105:THR:HG21	1:KE:133:ASN:O	2.03	0.59
1:JD:109:ARG:HD2	1:JD:415:THR:O	2.02	0.59
1:JD:112:ILE:HG12	1:GQ:46:SER:CB	2.33	0.59
1:WG:133:ASN:O	1:VR:105:THR:HG21	2.02	0.59
1:HL:81:ALA:O	1:HL:85:GLN:HG3	2.03	0.59
1:MO:354:SER:H	1:MO:359:GLN:HE21	1.50	0.59
1:bS:311:THR:HG22	1:bS:330:LEU:HB3	1.85	0.59
1:CT:109:ARG:HD2	1:CT:415:THR:O	2.02	0.59
1:PU:81:ALA:O	1:PU:85:GLN:HG3	2.03	0.59
1:cV:81:ALA:O	1:cV:85:GLN:HG3	2.03	0.59
1:aW:354:SER:HB3	1:aW:359:GLN:NE2	2.18	0.59
1:EX:81:ALA:O	1:EX:85:GLN:HG3	2.03	0.59
1:Q2:354:SER:HB3	1:Q2:359:GLN:NE2	2.18	0.58
1:R4:354:SER:HB3	1:R4:359:GLN:NE2	2.18	0.58
1:S5:214:ILE:HG13	1:S5:234:ALA:CB	2.33	0.58
1:g6:81:ALA:O	1:g6:85:GLN:HG3	2.03	0.58
1:g6:311:THR:HG22	1:g6:330:LEU:HB3	1.85	0.58
1:A7:109:ARG:HD2	1:A7:415:THR:O	2.02	0.58
1:e8:46:SER:CB	1:CT:112:ILE:HG12	2.33	0.58
1:Z9:109:ARG:HD2	1:Z9:415:THR:O	2.02	0.58
1:OA:214:ILE:HG13	1:OA:234:ALA:CB	2.33	0.58
1:FB:81:ALA:O	1:FB:85:GLN:HG3	2.03	0.58
1:dC:81:ALA:O	1:dC:85:GLN:HG3	2.03	0.58
1:dC:354:SER:H	1:dC:359:GLN:HE21	1.50	0.58
1:WG:46:SER:HB2	1:aW:112:ILE:HG12	1.85	0.58
1:fK:81:ALA:O	1:fK:85:GLN:HG3	2.03	0.58
1:HL:287:VAL:HG21	1:HL:307:ILE:HG12	1.82	0.58
1:DN:81:ALA:O	1:DN:85:GLN:HG3	2.03	0.58
1:GQ:81:ALA:O	1:GQ:85:GLN:HG3	2.03	0.58
1:bS:61:LEU:CD2	1:bS:455:ILE:HD12	2.31	0.58
1:bS:354:SER:H	1:bS:359:GLN:HE21	1.50	0.58
1:PU:61:LEU:CD2	1:PU:455:ILE:HD12	2.31	0.58
1:PU:354:SER:HB3	1:PU:359:GLN:NE2	2.18	0.58
1:Y1:109:ARG:HD2	1:Y1:415:THR:O	2.02	0.58
1:R4:46:SER:HB2	1:TP:112:ILE:HG12	1.85	0.58
1:A7:311:THR:HG22	1:A7:330:LEU:HB3	1.85	0.58
1:A7:454:ASN:HB2	1:FB:84:GLU:HG2	1.86	0.58
1:dC:61:LEU:CD2	1:dC:455:ILE:HD12	2.31	0.58
1:dC:214:ILE:HG13	1:dC:234:ALA:CB	2.34	0.58
1:JD:354:SER:H	1:JD:359:GLN:HE21	1.50	0.58
1:KE:354:SER:H	1:KE:359:GLN:HE21	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:354:SER:H	1:LF:359:GLN:HE21	1.50	0.58
1:UH:214:ILE:HG13	1:UH:234:ALA:CB	2.33	0.58
1:NI:214:ILE:HG13	1:NI:234:ALA:CB	2.34	0.58
1:BJ:109:ARG:HD2	1:BJ:415:THR:O	2.02	0.58
1:MO:214:ILE:HG13	1:MO:234:ALA:CB	2.33	0.58
1:TP:214:ILE:HG13	1:TP:234:ALA:CB	2.34	0.58
1:bS:214:ILE:HG13	1:bS:234:ALA:CB	2.34	0.58
1:cV:61:LEU:CD2	1:cV:455:ILE:HD12	2.31	0.58
1:cV:214:ILE:HG13	1:cV:234:ALA:CB	2.34	0.58
1:aW:109:ARG:HD2	1:aW:415:THR:O	2.02	0.58
1:EX:214:ILE:HG13	1:EX:234:ALA:CB	2.33	0.58
1:Q2:61:LEU:CD2	1:Q2:455:ILE:HD12	2.31	0.58
1:Q2:454:ASN:HB2	1:TP:84:GLU:HG2	1.85	0.58
1:R4:61:LEU:CD2	1:R4:455:ILE:HD12	2.31	0.58
1:A7:81:ALA:O	1:A7:85:GLN:HG3	2.03	0.58
1:e8:81:ALA:O	1:e8:85:GLN:HG3	2.03	0.58
1:e8:354:SER:HB3	1:e8:359:GLN:NE2	2.18	0.58
1:FB:45:ALA:HB1	1:EX:439:SER:HA	1.84	0.58
1:FB:454:ASN:HB2	1:GQ:84:GLU:HG2	1.85	0.58
1:WG:311:THR:HG22	1:WG:330:LEU:HB3	1.85	0.58
1:UH:84:GLU:HG2	1:PU:454:ASN:HB2	1.85	0.58
1:BJ:311:THR:HG22	1:BJ:330:LEU:HB3	1.85	0.58
1:fK:354:SER:HB3	1:fK:359:GLN:NE2	2.18	0.58
1:TP:354:SER:HB3	1:TP:359:GLN:NE2	2.18	0.58
1:GQ:287:VAL:HG21	1:GQ:307:ILE:HG12	1.83	0.58
1:CT:311:THR:HG22	1:CT:330:LEU:HB3	1.85	0.58
1:PU:109:ARG:HD2	1:PU:415:THR:O	2.02	0.58
1:cV:354:SER:H	1:cV:359:GLN:HE21	1.50	0.58
1:I3:112:ILE:HG12	1:EX:46:SER:HB2	1.85	0.58
1:S5:354:SER:HB3	1:S5:359:GLN:NE2	2.18	0.58
1:g6:84:GLU:HG2	1:bS:454:ASN:HB2	1.86	0.58
1:OA:84:GLU:HG2	1:JD:454:ASN:HB2	1.86	0.58
1:FB:214:ILE:HG13	1:FB:234:ALA:CB	2.34	0.58
1:JD:81:ALA:O	1:JD:85:GLN:HG3	2.03	0.58
1:JD:354:SER:HB3	1:JD:359:GLN:NE2	2.18	0.58
1:UH:354:SER:HB3	1:UH:359:GLN:NE2	2.18	0.58
1:BJ:81:ALA:O	1:BJ:85:GLN:HG3	2.03	0.58
1:XM:214:ILE:HG13	1:XM:234:ALA:CB	2.33	0.58
1:XM:311:THR:HG22	1:XM:330:LEU:HB3	1.85	0.58
1:DN:214:ILE:HG13	1:DN:234:ALA:CB	2.34	0.58
1:MO:81:ALA:O	1:MO:85:GLN:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:214:ILE:HG13	1:VR:234:ALA:CB	2.33	0.58
1:R4:46:SER:CB	1:TP:112:ILE:HG12	2.33	0.58
1:g6:354:SER:HB3	1:g6:359:GLN:NE2	2.19	0.58
1:dC:109:ARG:HD2	1:dC:415:THR:O	2.02	0.58
1:JD:214:ILE:HG13	1:JD:234:ALA:CB	2.34	0.58
1:KE:105:THR:HG21	1:LF:133:ASN:O	2.04	0.58
1:KE:214:ILE:HG13	1:KE:234:ALA:CB	2.33	0.58
1:KE:354:SER:HB3	1:KE:359:GLN:NE2	2.18	0.58
1:LF:214:ILE:HG13	1:LF:234:ALA:CB	2.33	0.58
1:LF:354:SER:HB3	1:LF:359:GLN:NE2	2.18	0.58
1:LF:454:ASN:HB2	1:MO:84:GLU:HG2	1.86	0.58
1:WG:214:ILE:HG13	1:WG:234:ALA:CB	2.34	0.58
1:NI:81:ALA:O	1:NI:85:GLN:HG3	2.03	0.58
1:fK:454:ASN:HB2	1:CT:84:GLU:HG2	1.86	0.58
1:VR:311:THR:HG22	1:VR:330:LEU:HB3	1.85	0.58
1:CT:81:ALA:O	1:CT:85:GLN:HG3	2.03	0.58
1:Q2:109:ARG:HD2	1:Q2:415:THR:O	2.02	0.58
1:R4:109:ARG:HD2	1:R4:415:THR:O	2.02	0.58
1:R4:454:ASN:HB2	1:S5:84:GLU:HG2	1.86	0.58
1:OA:81:ALA:O	1:OA:85:GLN:HG3	2.03	0.58
1:dC:217:LEU:O	1:dC:221:ILE:HG13	2.03	0.58
1:JD:112:ILE:HG12	1:GQ:46:SER:HB2	1.86	0.58
1:KE:81:ALA:O	1:KE:85:GLN:HG3	2.03	0.58
1:LF:217:LEU:O	1:LF:221:ILE:HG13	2.03	0.58
1:UH:464:ALA:HA	1:TP:9:ILE:HD11	1.84	0.58
1:fK:84:GLU:HG2	1:cV:454:ASN:HB2	1.86	0.58
1:MO:46:SER:HB2	1:PU:112:ILE:HG12	1.86	0.58
1:cV:217:LEU:O	1:cV:221:ILE:HG13	2.03	0.58
1:Y1:217:LEU:O	1:Y1:221:ILE:HG13	2.03	0.58
1:I3:214:ILE:HG13	1:I3:234:ALA:CB	2.34	0.58
1:I3:354:SER:H	1:I3:359:GLN:HE21	1.50	0.58
1:g6:214:ILE:HG13	1:g6:234:ALA:CB	2.34	0.58
1:e8:217:LEU:O	1:e8:221:ILE:HG13	2.03	0.58
1:Z9:217:LEU:O	1:Z9:221:ILE:HG13	2.03	0.58
1:JD:77:VAL:HG22	1:HL:461:ASN:HB2	1.85	0.58
1:JD:217:LEU:O	1:JD:221:ILE:HG13	2.03	0.58
1:KE:217:LEU:O	1:KE:221:ILE:HG13	2.03	0.58
1:KE:457:ILE:CG2	1:NI:80:LYS:HG3	2.33	0.58
1:WG:354:SER:HB3	1:WG:359:GLN:NE2	2.18	0.58
1:fK:354:SER:H	1:fK:359:GLN:HE21	1.50	0.58
1:HL:354:SER:H	1:HL:359:GLN:HE21	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:217:LEU:O	1:XM:221:ILE:HG13	2.03	0.58
1:XM:354:SER:HB3	1:XM:359:GLN:NE2	2.18	0.58
1:GQ:354:SER:H	1:GQ:359:GLN:HE21	1.50	0.58
1:VR:354:SER:HB3	1:VR:359:GLN:NE2	2.18	0.58
1:bS:217:LEU:O	1:bS:221:ILE:HG13	2.03	0.58
1:cV:109:ARG:HD2	1:cV:415:THR:O	2.02	0.58
1:aW:217:LEU:O	1:aW:221:ILE:HG13	2.03	0.58
1:Y1:46:SER:CB	1:bS:112:ILE:HG12	2.34	0.58
1:Q2:84:GLU:HG2	1:MO:454:ASN:HB2	1.86	0.58
1:R4:214:ILE:HG13	1:R4:234:ALA:CB	2.34	0.58
1:g6:354:SER:H	1:g6:359:GLN:HE21	1.50	0.58
1:FB:311:THR:HG22	1:FB:330:LEU:HB3	1.85	0.58
1:JD:439:SER:HA	1:KE:45:ALA:HB1	1.84	0.58
1:KE:84:GLU:HG2	1:GQ:454:ASN:HB2	1.86	0.58
1:LF:81:ALA:O	1:LF:85:GLN:HG3	2.03	0.58
1:WG:217:LEU:O	1:WG:221:ILE:HG13	2.03	0.58
1:NI:464:ALA:HA	1:MO:9:ILE:HD11	1.84	0.58
1:fK:214:ILE:HG13	1:fK:234:ALA:CB	2.33	0.58
1:HL:214:ILE:HG13	1:HL:234:ALA:CB	2.33	0.58
1:DN:311:THR:HG22	1:DN:330:LEU:HB3	1.85	0.58
1:EX:311:THR:HG22	1:EX:330:LEU:HB3	1.85	0.58
1:Y1:238:THR:HG22	1:Y1:299:LEU:HB2	1.85	0.58
1:Q2:214:ILE:HG13	1:Q2:234:ALA:CB	2.33	0.58
1:Q2:217:LEU:O	1:Q2:221:ILE:HG13	2.03	0.58
1:S5:217:LEU:O	1:S5:221:ILE:HG13	2.03	0.58
1:S5:311:THR:HG22	1:S5:330:LEU:HB3	1.85	0.58
1:g6:217:LEU:O	1:g6:221:ILE:HG13	2.03	0.58
1:e8:214:ILE:HG13	1:e8:234:ALA:CB	2.34	0.58
1:OA:217:LEU:O	1:OA:221:ILE:HG13	2.03	0.58
1:dC:238:THR:HG22	1:dC:299:LEU:HB2	1.85	0.58
1:UH:311:THR:HG22	1:UH:330:LEU:HB3	1.85	0.58
1:fK:217:LEU:O	1:fK:221:ILE:HG13	2.03	0.58
1:fK:457:ILE:HG21	1:CT:80:LYS:HB3	1.86	0.58
1:MO:217:LEU:O	1:MO:221:ILE:HG13	2.03	0.58
1:MO:354:SER:HB3	1:MO:359:GLN:NE2	2.18	0.58
1:VR:217:LEU:O	1:VR:221:ILE:HG13	2.03	0.58
1:bS:109:ARG:HD2	1:bS:415:THR:O	2.02	0.58
1:bS:251:ASN:HB2	1:bS:312:ASP:OD2	2.04	0.58
1:PU:217:LEU:O	1:PU:221:ILE:HG13	2.03	0.58
1:cV:238:THR:HG22	1:cV:299:LEU:HB2	1.85	0.58
1:Y1:454:ASN:HB2	1:cV:84:GLU:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:251:ASN:HB2	1:I3:312:ASP:OD2	2.04	0.58
1:R4:217:LEU:O	1:R4:221:ILE:HG13	2.03	0.58
1:g6:251:ASN:HB2	1:g6:312:ASP:OD2	2.04	0.58
1:A7:214:ILE:HG13	1:A7:234:ALA:CB	2.34	0.58
1:e8:354:SER:H	1:e8:359:GLN:HE21	1.50	0.58
1:Z9:238:THR:HG22	1:Z9:299:LEU:HB2	1.85	0.58
1:OA:112:ILE:HG12	1:KE:46:SER:CB	2.34	0.58
1:OA:354:SER:HB3	1:OA:359:GLN:NE2	2.18	0.58
1:FB:217:LEU:O	1:FB:221:ILE:HG13	2.03	0.58
1:dC:251:ASN:HB2	1:dC:312:ASP:OD2	2.04	0.58
1:NI:217:LEU:O	1:NI:221:ILE:HG13	2.03	0.58
1:NI:354:SER:HB3	1:NI:359:GLN:NE2	2.18	0.58
1:BJ:133:ASN:O	1:CT:105:THR:HG21	2.04	0.58
1:BJ:214:ILE:HG13	1:BJ:234:ALA:CB	2.33	0.58
1:XM:109:ARG:HD2	1:XM:415:THR:O	2.02	0.58
1:DN:217:LEU:O	1:DN:221:ILE:HG13	2.03	0.58
1:TP:217:LEU:O	1:TP:221:ILE:HG13	2.03	0.58
1:TP:311:THR:HG22	1:TP:330:LEU:HB3	1.85	0.58
1:GQ:214:ILE:HG13	1:GQ:234:ALA:CB	2.33	0.58
1:bS:238:THR:HG22	1:bS:299:LEU:HB2	1.85	0.58
1:PU:214:ILE:HG13	1:PU:234:ALA:CB	2.33	0.58
1:EX:217:LEU:O	1:EX:221:ILE:HG13	2.03	0.58
1:Y1:214:ILE:HG13	1:Y1:234:ALA:CB	2.34	0.57
1:Y1:251:ASN:HB2	1:Y1:312:ASP:OD2	2.04	0.57
1:Q2:251:ASN:HB2	1:Q2:312:ASP:OD2	2.04	0.57
1:I3:105:THR:HG21	1:HL:133:ASN:O	2.03	0.57
1:I3:217:LEU:O	1:I3:221:ILE:HG13	2.03	0.57
1:R4:251:ASN:HB2	1:R4:312:ASP:OD2	2.04	0.57
1:S5:454:ASN:HB2	1:WG:84:GLU:HG2	1.86	0.57
1:e8:80:LYS:HG3	1:dC:457:ILE:CG2	2.34	0.57
1:e8:238:THR:HG22	1:e8:299:LEU:HB2	1.85	0.57
1:e8:251:ASN:HB2	1:e8:312:ASP:OD2	2.04	0.57
1:Z9:251:ASN:HB2	1:Z9:312:ASP:OD2	2.04	0.57
1:Z9:461:ASN:HB2	1:bS:77:VAL:HG22	1.85	0.57
1:OA:251:ASN:HB2	1:OA:312:ASP:OD2	2.04	0.57
1:UH:217:LEU:O	1:UH:221:ILE:HG13	2.03	0.57
1:NI:251:ASN:HB2	1:NI:312:ASP:OD2	2.04	0.57
1:BJ:454:ASN:HB2	1:EX:84:GLU:HG2	1.86	0.57
1:fK:251:ASN:HB2	1:fK:312:ASP:OD2	2.04	0.57
1:HL:251:ASN:HB2	1:HL:312:ASP:OD2	2.04	0.57
1:HL:354:SER:HB3	1:HL:359:GLN:NE2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:251:ASN:HB2	1:MO:312:ASP:OD2	2.04	0.57
1:GQ:251:ASN:HB2	1:GQ:312:ASP:OD2	2.04	0.57
1:GQ:354:SER:HB3	1:GQ:359:GLN:NE2	2.18	0.57
1:VR:109:ARG:HD2	1:VR:415:THR:O	2.02	0.57
1:bS:105:THR:HG21	1:cV:133:ASN:O	2.04	0.57
1:PU:238:THR:HG22	1:PU:299:LEU:HB2	1.85	0.57
1:cV:251:ASN:HB2	1:cV:312:ASP:OD2	2.04	0.57
1:Q2:439:SER:HA	1:R4:45:ALA:HB1	1.84	0.57
1:g6:112:ILE:HG12	1:cV:46:SER:CB	2.34	0.57
1:e8:46:SER:HB2	1:CT:112:ILE:HG12	1.86	0.57
1:Z9:214:ILE:HG13	1:Z9:234:ALA:CB	2.34	0.57
1:LF:251:ASN:HB2	1:LF:312:ASP:OD2	2.04	0.57
1:BJ:354:SER:H	1:BJ:359:GLN:HE21	1.50	0.57
1:fK:238:THR:HG22	1:fK:299:LEU:HB2	1.85	0.57
1:HL:77:VAL:HG22	1:EX:461:ASN:HB2	1.86	0.57
1:HL:80:LYS:HB3	1:EX:457:ILE:HG21	1.87	0.57
1:DN:354:SER:HB3	1:DN:359:GLN:NE2	2.18	0.57
1:DN:354:SER:H	1:DN:359:GLN:HE21	1.50	0.57
1:bS:439:SER:HA	1:cV:45:ALA:HB1	1.85	0.57
1:CT:214:ILE:HG13	1:CT:234:ALA:CB	2.33	0.57
1:CT:251:ASN:HB2	1:CT:312:ASP:OD2	2.04	0.57
1:PU:251:ASN:HB2	1:PU:312:ASP:OD2	2.04	0.57
1:aW:238:THR:HG22	1:aW:299:LEU:HB2	1.85	0.57
1:aW:251:ASN:HB2	1:aW:312:ASP:OD2	2.04	0.57
1:EX:354:SER:HB3	1:EX:359:GLN:NE2	2.18	0.57
1:EX:354:SER:H	1:EX:359:GLN:HE21	1.50	0.57
1:I3:354:SER:HB3	1:I3:359:GLN:NE2	2.18	0.57
1:S5:251:ASN:HB2	1:S5:312:ASP:OD2	2.04	0.57
1:g6:238:THR:HG22	1:g6:299:LEU:HB2	1.85	0.57
1:g6:429:SER:O	1:g6:433:MET:HG3	2.05	0.57
1:A7:354:SER:H	1:A7:359:GLN:HE21	1.50	0.57
1:OA:61:LEU:CD2	1:OA:455:ILE:HD12	2.31	0.57
1:OA:112:ILE:HG12	1:KE:46:SER:HB2	1.87	0.57
1:OA:429:SER:O	1:OA:433:MET:HG3	2.05	0.57
1:FB:354:SER:HB3	1:FB:359:GLN:NE2	2.18	0.57
1:dC:354:SER:HB3	1:dC:359:GLN:NE2	2.18	0.57
1:JD:80:LYS:HB3	1:HL:457:ILE:HG21	1.85	0.57
1:KE:251:ASN:HB2	1:KE:312:ASP:OD2	2.04	0.57
1:WG:251:ASN:HB2	1:WG:312:ASP:OD2	2.04	0.57
1:UH:238:THR:HG22	1:UH:299:LEU:HB2	1.85	0.57
1:UH:251:ASN:HB2	1:UH:312:ASP:OD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:251:ASN:HB2	1:BJ:312:ASP:OD2	2.04	0.57
1:BJ:354:SER:HB3	1:BJ:359:GLN:NE2	2.18	0.57
1:fK:429:SER:O	1:fK:433:MET:HG3	2.05	0.57
1:HL:105:THR:HG21	1:GQ:133:ASN:O	2.04	0.57
1:HL:217:LEU:O	1:HL:221:ILE:HG13	2.03	0.57
1:TP:251:ASN:HB2	1:TP:312:ASP:OD2	2.04	0.57
1:GQ:217:LEU:O	1:GQ:221:ILE:HG13	2.03	0.57
1:bS:354:SER:HB3	1:bS:359:GLN:NE2	2.18	0.57
1:CT:354:SER:H	1:CT:359:GLN:HE21	1.50	0.57
1:Y1:133:ASN:O	1:Z9:105:THR:HG21	2.05	0.57
1:Q2:238:THR:HG22	1:Q2:299:LEU:HB2	1.85	0.57
1:A7:217:LEU:O	1:A7:221:ILE:HG13	2.03	0.57
1:A7:251:ASN:HB2	1:A7:312:ASP:OD2	2.04	0.57
1:A7:354:SER:HB3	1:A7:359:GLN:NE2	2.18	0.57
1:e8:429:SER:O	1:e8:433:MET:HG3	2.05	0.57
1:FB:46:SER:CB	1:HL:112:ILE:HG12	2.34	0.57
1:FB:354:SER:H	1:FB:359:GLN:HE21	1.50	0.57
1:dC:45:ALA:HB1	1:cV:439:SER:HA	1.85	0.57
1:JD:251:ASN:HB2	1:JD:312:ASP:OD2	2.04	0.57
1:KE:439:SER:HA	1:LF:45:ALA:HB1	1.85	0.57
1:KE:454:ASN:HB2	1:NI:84:GLU:HG2	1.87	0.57
1:WG:109:ARG:HD2	1:WG:415:THR:O	2.02	0.57
1:UH:105:THR:HG21	1:TP:133:ASN:O	2.04	0.57
1:NI:429:SER:O	1:NI:433:MET:HG3	2.05	0.57
1:fK:461:ASN:HB2	1:CT:77:VAL:HG22	1.86	0.57
1:HL:311:THR:HG22	1:HL:330:LEU:HB3	1.85	0.57
1:XM:238:THR:HG22	1:XM:299:LEU:HB2	1.85	0.57
1:XM:251:ASN:HB2	1:XM:312:ASP:OD2	2.04	0.57
1:MO:46:SER:CB	1:PU:112:ILE:HG12	2.34	0.57
1:MO:429:SER:O	1:MO:433:MET:HG3	2.05	0.57
1:TP:429:SER:O	1:TP:433:MET:HG3	2.05	0.57
1:GQ:311:THR:HG22	1:GQ:330:LEU:HB3	1.85	0.57
1:CT:354:SER:HB3	1:CT:359:GLN:NE2	2.18	0.57
1:cV:354:SER:HB3	1:cV:359:GLN:NE2	2.18	0.57
1:aW:214:ILE:HG13	1:aW:234:ALA:CB	2.34	0.57
1:I3:311:THR:HG22	1:I3:330:LEU:HB3	1.85	0.57
1:R4:238:THR:HG22	1:R4:299:LEU:HB2	1.85	0.57
1:S5:429:SER:O	1:S5:433:MET:HG3	2.05	0.57
1:Z9:112:ILE:HG12	1:XM:46:SER:CB	2.34	0.57
1:Z9:398:ASN:HB3	1:Z9:404:ALA:HB2	1.87	0.57
1:OA:238:THR:HG22	1:OA:299:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:398:ASN:HB3	1:dC:404:ALA:HB2	1.87	0.57
1:JD:311:THR:HG22	1:JD:330:LEU:HB3	1.85	0.57
1:LF:311:THR:HG22	1:LF:330:LEU:HB3	1.85	0.57
1:UH:429:SER:O	1:UH:433:MET:HG3	2.05	0.57
1:NI:457:ILE:HG21	1:PU:80:LYS:HB3	1.85	0.57
1:DN:251:ASN:HB2	1:DN:312:ASP:OD2	2.04	0.57
1:MO:238:THR:HG22	1:MO:299:LEU:HB2	1.85	0.57
1:TP:238:THR:HG22	1:TP:299:LEU:HB2	1.85	0.57
1:VR:251:ASN:HB2	1:VR:312:ASP:OD2	2.05	0.57
1:VR:454:ASN:HB2	1:aW:84:GLU:HG2	1.86	0.57
1:bS:398:ASN:HB3	1:bS:404:ALA:HB2	1.87	0.57
1:aW:398:ASN:HB3	1:aW:404:ALA:HB2	1.87	0.57
1:aW:429:SER:O	1:aW:433:MET:HG3	2.05	0.57
1:EX:251:ASN:HB2	1:EX:312:ASP:OD2	2.04	0.57
1:Y1:398:ASN:HB3	1:Y1:404:ALA:HB2	1.87	0.57
1:Y1:429:SER:O	1:Y1:433:MET:HG3	2.05	0.57
1:Q2:105:THR:HG21	1:R4:133:ASN:O	2.04	0.57
1:Q2:398:ASN:HB3	1:Q2:404:ALA:HB2	1.87	0.57
1:R4:398:ASN:HB3	1:R4:404:ALA:HB2	1.87	0.57
1:g6:253:THR:O	1:g6:309:ILE:HD12	2.05	0.57
1:A7:45:ALA:HB1	1:BJ:439:SER:HA	1.85	0.57
1:A7:253:THR:O	1:A7:309:ILE:HD12	2.05	0.57
1:Z9:429:SER:O	1:Z9:433:MET:HG3	2.05	0.57
1:FB:251:ASN:HB2	1:FB:312:ASP:OD2	2.04	0.57
1:FB:429:SER:O	1:FB:433:MET:HG3	2.05	0.57
1:KE:311:THR:HG22	1:KE:330:LEU:HB3	1.85	0.57
1:WG:238:THR:HG22	1:WG:299:LEU:HB2	1.85	0.57
1:NI:61:LEU:CD2	1:NI:455:ILE:HD12	2.31	0.57
1:NI:238:THR:HG22	1:NI:299:LEU:HB2	1.85	0.57
1:BJ:217:LEU:O	1:BJ:221:ILE:HG13	2.03	0.57
1:BJ:253:THR:O	1:BJ:309:ILE:HD12	2.05	0.57
1:HL:84:GLU:HG2	1:EX:454:ASN:HB2	1.87	0.57
1:DN:429:SER:O	1:DN:433:MET:HG3	2.05	0.57
1:MO:61:LEU:CD2	1:MO:455:ILE:HD12	2.31	0.57
1:VR:398:ASN:HB3	1:VR:404:ALA:HB2	1.87	0.57
1:cV:398:ASN:HB3	1:cV:404:ALA:HB2	1.87	0.57
1:EX:429:SER:O	1:EX:433:MET:HG3	2.05	0.57
1:Y1:46:SER:HB2	1:bS:112:ILE:HG12	1.87	0.57
1:Q2:239:THR:OG1	1:Q2:402:VAL:HB	2.05	0.57
1:R4:311:THR:HG22	1:R4:330:LEU:HB3	1.85	0.57
1:S5:238:THR:HG22	1:S5:299:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:398:ASN:HB3	1:g6:404:ALA:HB2	1.87	0.57
1:e8:253:THR:O	1:e8:309:ILE:HD12	2.05	0.57
1:Z9:112:ILE:HG12	1:XM:46:SER:HB2	1.87	0.57
1:KE:429:SER:O	1:KE:433:MET:HG3	2.05	0.57
1:LF:429:SER:O	1:LF:433:MET:HG3	2.05	0.57
1:WG:398:ASN:HB3	1:WG:404:ALA:HB2	1.87	0.57
1:WG:439:SER:HA	1:XM:45:ALA:HB1	1.85	0.57
1:fK:253:THR:O	1:fK:309:ILE:HD12	2.05	0.57
1:fK:398:ASN:HB3	1:fK:404:ALA:HB2	1.87	0.57
1:VR:238:THR:HG22	1:VR:299:LEU:HB2	1.85	0.57
1:bS:239:THR:OG1	1:bS:402:VAL:HB	2.05	0.57
1:CT:253:THR:O	1:CT:309:ILE:HD12	2.05	0.57
1:PU:311:THR:HG22	1:PU:330:LEU:HB3	1.85	0.57
1:cV:239:THR:OG1	1:cV:402:VAL:HB	2.05	0.57
1:Q2:311:THR:HG22	1:Q2:330:LEU:HB3	1.85	0.57
1:S5:133:ASN:O	1:TP:105:THR:HG21	2.05	0.57
1:S5:398:ASN:HB3	1:S5:404:ALA:HB2	1.87	0.57
1:A7:238:THR:HG22	1:A7:299:LEU:HB2	1.85	0.57
1:e8:457:ILE:HG21	1:BJ:80:LYS:HB3	1.87	0.57
1:Z9:84:GLU:HG2	1:WG:454:ASN:HB2	1.87	0.57
1:OA:253:THR:O	1:OA:309:ILE:HD12	2.05	0.57
1:FB:457:ILE:HG21	1:GQ:80:LYS:HB3	1.87	0.57
1:dC:239:THR:OG1	1:dC:402:VAL:HB	2.05	0.57
1:XM:398:ASN:HB3	1:XM:404:ALA:HB2	1.87	0.57
1:TP:253:THR:O	1:TP:309:ILE:HD12	2.05	0.57
1:CT:217:LEU:O	1:CT:221:ILE:HG13	2.03	0.57
1:CT:398:ASN:HB3	1:CT:404:ALA:HB2	1.87	0.57
1:PU:239:THR:OG1	1:PU:402:VAL:HB	2.05	0.57
1:PU:398:ASN:HB3	1:PU:404:ALA:HB2	1.87	0.57
1:Q2:45:ALA:HB1	1:PU:439:SER:HA	1.85	0.57
1:R4:239:THR:OG1	1:R4:402:VAL:HB	2.05	0.57
1:S5:253:THR:O	1:S5:309:ILE:HD12	2.05	0.57
1:A7:398:ASN:HB3	1:A7:404:ALA:HB2	1.87	0.57
1:e8:454:ASN:HB2	1:BJ:84:GLU:HG2	1.87	0.57
1:JD:429:SER:O	1:JD:433:MET:HG3	2.05	0.57
1:UH:253:THR:O	1:UH:309:ILE:HD12	2.05	0.57
1:BJ:238:THR:HG22	1:BJ:299:LEU:HB2	1.85	0.57
1:BJ:398:ASN:HB3	1:BJ:404:ALA:HB2	1.87	0.57
1:HL:238:THR:HG22	1:HL:299:LEU:HB2	1.85	0.57
1:TP:398:ASN:HB3	1:TP:404:ALA:HB2	1.87	0.57
1:TP:454:ASN:HB2	1:VR:84:GLU:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:429:SER:O	1:CT:433:MET:HG3	2.05	0.57
1:I3:429:SER:O	1:I3:433:MET:HG3	2.05	0.57
1:g6:112:ILE:HG12	1:cV:46:SER:HB2	1.86	0.57
1:A7:429:SER:O	1:A7:433:MET:HG3	2.05	0.57
1:e8:398:ASN:HB3	1:e8:404:ALA:HB2	1.87	0.57
1:OA:398:ASN:HB3	1:OA:404:ALA:HB2	1.87	0.57
1:FB:133:ASN:O	1:EX:105:THR:HG21	2.05	0.57
1:NI:253:THR:O	1:NI:309:ILE:HD12	2.05	0.57
1:NI:398:ASN:HB3	1:NI:404:ALA:HB2	1.87	0.57
1:NI:461:ASN:HB2	1:PU:77:VAL:HG22	1.86	0.57
1:BJ:429:SER:O	1:BJ:433:MET:HG3	2.05	0.57
1:MO:253:THR:O	1:MO:309:ILE:HD12	2.05	0.57
1:MO:398:ASN:HB3	1:MO:404:ALA:HB2	1.87	0.57
1:VR:461:ASN:HB2	1:aW:77:VAL:HG22	1.85	0.57
1:Y1:239:THR:OG1	1:Y1:402:VAL:HB	2.05	0.56
1:I3:238:THR:HG22	1:I3:299:LEU:HB2	1.85	0.56
1:e8:84:GLU:HG2	1:dC:454:ASN:HB2	1.87	0.56
1:e8:239:THR:OG1	1:e8:402:VAL:HB	2.05	0.56
1:Z9:239:THR:OG1	1:Z9:402:VAL:HB	2.05	0.56
1:FB:238:THR:HG22	1:FB:299:LEU:HB2	1.85	0.56
1:FB:253:THR:O	1:FB:309:ILE:HD12	2.05	0.56
1:FB:398:ASN:HB3	1:FB:404:ALA:HB2	1.87	0.56
1:dC:133:ASN:O	1:cV:105:THR:HG21	2.04	0.56
1:UH:398:ASN:HB3	1:UH:404:ALA:HB2	1.87	0.56
1:fK:239:THR:OG1	1:fK:402:VAL:HB	2.05	0.56
1:XM:239:THR:OG1	1:XM:402:VAL:HB	2.05	0.56
1:DN:238:THR:HG22	1:DN:299:LEU:HB2	1.85	0.56
1:DN:398:ASN:HB3	1:DN:404:ALA:HB2	1.87	0.56
1:CT:238:THR:HG22	1:CT:299:LEU:HB2	1.85	0.56
1:aW:239:THR:OG1	1:aW:402:VAL:HB	2.05	0.56
1:EX:238:THR:HG22	1:EX:299:LEU:HB2	1.85	0.56
1:EX:398:ASN:HB3	1:EX:404:ALA:HB2	1.87	0.56
1:Q2:461:ASN:HB2	1:TP:77:VAL:HG22	1.86	0.56
1:g6:239:THR:OG1	1:g6:402:VAL:HB	2.05	0.56
1:JD:238:THR:HG22	1:JD:299:LEU:HB2	1.85	0.56
1:NI:239:THR:OG1	1:NI:402:VAL:HB	2.05	0.56
1:HL:429:SER:O	1:HL:433:MET:HG3	2.05	0.56
1:DN:239:THR:OG1	1:DN:402:VAL:HB	2.05	0.56
1:DN:439:SER:HA	1:EX:45:ALA:HB1	1.86	0.56
1:GQ:238:THR:HG22	1:GQ:299:LEU:HB2	1.85	0.56
1:GQ:429:SER:O	1:GQ:433:MET:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:239:THR:OG1	1:VR:402:VAL:HB	2.05	0.56
1:EX:253:THR:O	1:EX:309:ILE:HD12	2.05	0.56
1:Y1:188:LEU:HD21	1:Y1:217:LEU:HD11	1.87	0.56
1:Q2:457:ILE:HG21	1:TP:80:LYS:HB3	1.86	0.56
1:I3:84:GLU:HG2	1:DN:454:ASN:HB2	1.87	0.56
1:A7:46:SER:O	1:A7:50:VAL:HG23	2.05	0.56
1:Z9:188:LEU:HD21	1:Z9:217:LEU:HD11	1.87	0.56
1:Z9:498:ALA:HB2	1:bS:29:LEU:HD13	1.88	0.56
1:OA:239:THR:OG1	1:OA:402:VAL:HB	2.05	0.56
1:OA:311:THR:HG22	1:OA:330:LEU:HB3	1.85	0.56
1:FB:46:SER:HB2	1:HL:112:ILE:HG12	1.87	0.56
1:FB:239:THR:OG1	1:FB:402:VAL:HB	2.05	0.56
1:FB:461:ASN:HB2	1:GQ:77:VAL:HG22	1.88	0.56
1:dC:188:LEU:HD21	1:dC:217:LEU:HD11	1.87	0.56
1:JD:253:THR:O	1:JD:309:ILE:HD12	2.05	0.56
1:JD:398:ASN:HB3	1:JD:404:ALA:HB2	1.87	0.56
1:KE:46:SER:O	1:KE:50:VAL:HG23	2.05	0.56
1:KE:238:THR:HG22	1:KE:299:LEU:HB2	1.85	0.56
1:KE:253:THR:O	1:KE:309:ILE:HD12	2.05	0.56
1:LF:46:SER:O	1:LF:50:VAL:HG23	2.05	0.56
1:LF:238:THR:HG22	1:LF:299:LEU:HB2	1.85	0.56
1:WG:239:THR:OG1	1:WG:402:VAL:HB	2.05	0.56
1:NI:311:THR:HG22	1:NI:330:LEU:HB3	1.85	0.56
1:BJ:45:ALA:HB1	1:CT:439:SER:HA	1.85	0.56
1:BJ:46:SER:O	1:BJ:50:VAL:HG23	2.05	0.56
1:HL:239:THR:OG1	1:HL:402:VAL:HB	2.05	0.56
1:XM:253:THR:O	1:XM:309:ILE:HD12	2.05	0.56
1:DN:77:VAL:HG22	1:CT:461:ASN:HB2	1.88	0.56
1:MO:239:THR:OG1	1:MO:402:VAL:HB	2.05	0.56
1:MO:311:THR:HG22	1:MO:330:LEU:HB3	1.85	0.56
1:GQ:239:THR:OG1	1:GQ:402:VAL:HB	2.05	0.56
1:bS:188:LEU:HD21	1:bS:217:LEU:HD11	1.87	0.56
1:bS:253:THR:O	1:bS:309:ILE:HD12	2.05	0.56
1:CT:46:SER:O	1:CT:50:VAL:HG23	2.06	0.56
1:cV:46:SER:O	1:cV:50:VAL:HG23	2.05	0.56
1:cV:188:LEU:HD21	1:cV:217:LEU:HD11	1.87	0.56
1:aW:188:LEU:HD21	1:aW:217:LEU:HD11	1.87	0.56
1:EX:239:THR:OG1	1:EX:402:VAL:HB	2.05	0.56
1:I3:239:THR:OG1	1:I3:402:VAL:HB	2.05	0.56
1:S5:239:THR:OG1	1:S5:402:VAL:HB	2.05	0.56
1:e8:461:ASN:HB2	1:BJ:77:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:46:SER:O	1:dC:50:VAL:HG23	2.05	0.56
1:dC:429:SER:O	1:dC:433:MET:HG3	2.05	0.56
1:JD:46:SER:O	1:JD:50:VAL:HG23	2.05	0.56
1:KE:188:LEU:HD21	1:KE:217:LEU:HD11	1.87	0.56
1:LF:188:LEU:HD21	1:LF:217:LEU:HD11	1.87	0.56
1:WG:253:THR:O	1:WG:309:ILE:HD12	2.05	0.56
1:NI:498:ALA:HB2	1:PU:29:LEU:HD13	1.86	0.56
1:DN:253:THR:O	1:DN:309:ILE:HD12	2.05	0.56
1:GQ:398:ASN:HB3	1:GQ:404:ALA:HB2	1.87	0.56
1:VR:253:THR:O	1:VR:309:ILE:HD12	2.05	0.56
1:bS:46:SER:O	1:bS:50:VAL:HG23	2.06	0.56
1:Y1:29:LEU:HD13	1:XM:498:ALA:HB2	1.86	0.56
1:S5:46:SER:CB	1:VR:112:ILE:HG12	2.35	0.56
1:dC:253:THR:O	1:dC:309:ILE:HD12	2.05	0.56
1:JD:188:LEU:HD21	1:JD:217:LEU:HD11	1.87	0.56
1:LF:253:THR:O	1:LF:309:ILE:HD12	2.05	0.56
1:NI:3:PHE:HZ	1:PU:18:SER:HB3	1.70	0.56
1:BJ:461:ASN:HB2	1:EX:77:VAL:HG22	1.88	0.56
1:HL:46:SER:O	1:HL:50:VAL:HG23	2.05	0.56
1:XM:429:SER:O	1:XM:433:MET:HG3	2.05	0.56
1:cV:253:THR:O	1:cV:309:ILE:HD12	2.05	0.56
1:Y1:18:SER:HB3	1:XM:3:PHE:HZ	1.70	0.56
1:I3:46:SER:O	1:I3:50:VAL:HG23	2.05	0.56
1:I3:363:PHE:CE1	1:I3:365:ALA:HB3	2.41	0.56
1:R4:253:THR:O	1:R4:309:ILE:HD12	2.05	0.56
1:g6:188:LEU:HD21	1:g6:217:LEU:HD11	1.87	0.56
1:e8:133:ASN:O	1:fK:105:THR:HG21	2.06	0.56
1:e8:188:LEU:HD21	1:e8:217:LEU:HD11	1.87	0.56
1:dC:376:THR:HG22	1:dC:394:ALA:CB	2.36	0.56
1:KE:398:ASN:HB3	1:KE:404:ALA:HB2	1.87	0.56
1:UH:239:THR:OG1	1:UH:402:VAL:HB	2.05	0.56
1:fK:188:LEU:HD21	1:fK:217:LEU:HD11	1.87	0.56
1:fK:308:GLU:HG2	1:fK:335:THR:CG2	2.27	0.56
1:HL:188:LEU:HD21	1:HL:217:LEU:HD11	1.87	0.56
1:HL:363:PHE:CE1	1:HL:365:ALA:HB3	2.41	0.56
1:HL:398:ASN:HB3	1:HL:404:ALA:HB2	1.87	0.56
1:XM:188:LEU:HD21	1:XM:217:LEU:HD11	1.87	0.56
1:TP:239:THR:OG1	1:TP:402:VAL:HB	2.05	0.56
1:GQ:46:SER:O	1:GQ:50:VAL:HG23	2.05	0.56
1:VR:429:SER:O	1:VR:433:MET:HG3	2.05	0.56
1:VR:457:ILE:HG21	1:aW:80:LYS:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:429:SER:O	1:bS:433:MET:HG3	2.05	0.56
1:cV:429:SER:O	1:cV:433:MET:HG3	2.05	0.56
1:I3:188:LEU:HD21	1:I3:217:LEU:HD11	1.87	0.56
1:I3:398:ASN:HB3	1:I3:404:ALA:HB2	1.87	0.56
1:R4:376:THR:HG22	1:R4:394:ALA:CB	2.36	0.56
1:A7:363:PHE:CE1	1:A7:365:ALA:HB3	2.41	0.56
1:A7:376:THR:HG22	1:A7:394:ALA:CB	2.36	0.56
1:Z9:253:THR:O	1:Z9:309:ILE:HD12	2.05	0.56
1:OA:363:PHE:CE1	1:OA:365:ALA:HB3	2.41	0.56
1:LF:398:ASN:HB3	1:LF:404:ALA:HB2	1.87	0.56
1:WG:188:LEU:HD21	1:WG:217:LEU:HD11	1.87	0.56
1:WG:429:SER:O	1:WG:433:MET:HG3	2.05	0.56
1:NI:46:SER:O	1:NI:50:VAL:HG23	2.05	0.56
1:NI:105:THR:HG21	1:MO:133:ASN:O	2.05	0.56
1:NI:188:LEU:HD21	1:NI:217:LEU:HD11	1.87	0.56
1:NI:363:PHE:CE1	1:NI:365:ALA:HB3	2.41	0.56
1:DN:353:VAL:CB	1:DN:359:GLN:HG3	2.25	0.56
1:GQ:363:PHE:CE1	1:GQ:365:ALA:HB3	2.41	0.56
1:VR:188:LEU:HD21	1:VR:217:LEU:HD11	1.87	0.56
1:Y1:253:THR:O	1:Y1:309:ILE:HD12	2.05	0.56
1:Q2:376:THR:HG22	1:Q2:394:ALA:CB	2.36	0.56
1:I3:253:THR:O	1:I3:309:ILE:HD12	2.05	0.56
1:OA:80:LYS:HB3	1:JD:457:ILE:HG21	1.88	0.56
1:LF:457:ILE:HG21	1:MO:80:LYS:HB3	1.88	0.56
1:WG:46:SER:O	1:WG:50:VAL:HG23	2.05	0.56
1:UH:46:SER:O	1:UH:50:VAL:HG23	2.05	0.56
1:BJ:363:PHE:CE1	1:BJ:365:ALA:HB3	2.41	0.56
1:BJ:376:THR:HG22	1:BJ:394:ALA:CB	2.36	0.56
1:MO:46:SER:O	1:MO:50:VAL:HG23	2.06	0.56
1:MO:363:PHE:CE1	1:MO:365:ALA:HB3	2.41	0.56
1:CT:376:THR:HG22	1:CT:394:ALA:CB	2.36	0.56
1:PU:376:THR:HG22	1:PU:394:ALA:CB	2.36	0.56
1:PU:429:SER:O	1:PU:433:MET:HG3	2.05	0.56
1:cV:376:THR:HG22	1:cV:394:ALA:CB	2.36	0.56
1:aW:253:THR:O	1:aW:309:ILE:HD12	2.05	0.56
1:Q2:253:THR:O	1:Q2:309:ILE:HD12	2.05	0.56
1:Q2:429:SER:O	1:Q2:433:MET:HG3	2.05	0.56
1:R4:429:SER:O	1:R4:433:MET:HG3	2.05	0.56
1:S5:376:THR:HG22	1:S5:394:ALA:CB	2.36	0.56
1:OA:46:SER:O	1:OA:50:VAL:HG23	2.06	0.56
1:OA:188:LEU:HD21	1:OA:217:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:363:PHE:CE1	1:UH:365:ALA:HB3	2.41	0.56
1:HL:253:THR:O	1:HL:309:ILE:HD12	2.05	0.56
1:DN:376:THR:HG22	1:DN:394:ALA:CB	2.36	0.56
1:MO:188:LEU:HD21	1:MO:217:LEU:HD11	1.87	0.56
1:TP:363:PHE:CE1	1:TP:365:ALA:HB3	2.41	0.56
1:TP:376:THR:HG22	1:TP:394:ALA:CB	2.36	0.56
1:GQ:188:LEU:HD21	1:GQ:217:LEU:HD11	1.87	0.56
1:VR:46:SER:O	1:VR:50:VAL:HG23	2.06	0.56
1:bS:376:THR:HG22	1:bS:394:ALA:CB	2.36	0.56
1:CT:363:PHE:CE1	1:CT:365:ALA:HB3	2.41	0.56
1:EX:353:VAL:CB	1:EX:359:GLN:HG3	2.25	0.56
1:Y1:80:LYS:HB3	1:XM:457:ILE:HG21	1.87	0.56
1:R4:363:PHE:CE1	1:R4:365:ALA:HB3	2.41	0.56
1:S5:46:SER:O	1:S5:50:VAL:HG23	2.05	0.56
1:S5:214:ILE:HG13	1:S5:234:ALA:HB2	1.88	0.56
1:g6:376:THR:HG22	1:g6:394:ALA:CB	2.36	0.56
1:A7:498:ALA:HB2	1:FB:29:LEU:HD13	1.88	0.56
1:e8:46:SER:O	1:e8:50:VAL:HG23	2.05	0.56
1:e8:376:THR:HG22	1:e8:394:ALA:CB	2.36	0.56
1:Z9:189:THR:O	1:Z9:353:VAL:HG22	2.06	0.56
1:OA:189:THR:O	1:OA:353:VAL:HG22	2.06	0.56
1:OA:214:ILE:HG13	1:OA:234:ALA:HB2	1.88	0.56
1:OA:376:THR:HG22	1:OA:394:ALA:CB	2.36	0.56
1:FB:376:THR:HG22	1:FB:394:ALA:CB	2.36	0.56
1:LF:46:SER:CB	1:NI:112:ILE:HG12	2.36	0.56
1:WG:105:THR:HG21	1:XM:133:ASN:O	2.04	0.56
1:WG:363:PHE:CE1	1:WG:365:ALA:HB3	2.41	0.56
1:UH:376:THR:HG22	1:UH:394:ALA:CB	2.36	0.56
1:NI:376:THR:HG22	1:NI:394:ALA:CB	2.36	0.56
1:fK:376:THR:HG22	1:fK:394:ALA:CB	2.36	0.56
1:XM:46:SER:O	1:XM:50:VAL:HG23	2.06	0.56
1:XM:363:PHE:CE1	1:XM:365:ALA:HB3	2.41	0.56
1:XM:376:THR:HG22	1:XM:394:ALA:CB	2.36	0.56
1:DN:80:LYS:HB3	1:CT:457:ILE:HG21	1.87	0.56
1:MO:214:ILE:HG13	1:MO:234:ALA:HB2	1.88	0.56
1:MO:376:THR:HG22	1:MO:394:ALA:CB	2.36	0.56
1:TP:46:SER:O	1:TP:50:VAL:HG23	2.06	0.56
1:GQ:253:THR:O	1:GQ:309:ILE:HD12	2.05	0.56
1:VR:363:PHE:CE1	1:VR:365:ALA:HB3	2.41	0.56
1:PU:253:THR:O	1:PU:309:ILE:HD12	2.05	0.56
1:aW:189:THR:O	1:aW:353:VAL:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:376:THR:HG22	1:EX:394:ALA:CB	2.36	0.56
1:Y1:46:SER:O	1:Y1:50:VAL:HG23	2.06	0.55
1:Y1:189:THR:O	1:Y1:353:VAL:HG22	2.06	0.55
1:Q2:363:PHE:CE1	1:Q2:365:ALA:HB3	2.41	0.55
1:S5:188:LEU:HD21	1:S5:217:LEU:HD11	1.87	0.55
1:S5:363:PHE:CE1	1:S5:365:ALA:HB3	2.41	0.55
1:g6:189:THR:O	1:g6:353:VAL:HG22	2.06	0.55
1:e8:308:GLU:HG2	1:e8:335:THR:CG2	2.27	0.55
1:FB:363:PHE:CE1	1:FB:365:ALA:HB3	2.41	0.55
1:KE:77:VAL:HG22	1:GQ:461:ASN:HB2	1.88	0.55
1:WG:376:THR:HG22	1:WG:394:ALA:CB	2.36	0.55
1:UH:214:ILE:HG13	1:UH:234:ALA:HB2	1.88	0.55
1:NI:189:THR:O	1:NI:353:VAL:HG22	2.07	0.55
1:NI:214:ILE:HG13	1:NI:234:ALA:HB2	1.88	0.55
1:fK:46:SER:O	1:fK:50:VAL:HG23	2.06	0.55
1:DN:46:SER:O	1:DN:50:VAL:HG23	2.05	0.55
1:MO:189:THR:O	1:MO:353:VAL:HG22	2.06	0.55
1:TP:188:LEU:HD21	1:TP:217:LEU:HD11	1.87	0.55
1:TP:214:ILE:HG13	1:TP:234:ALA:HB2	1.88	0.55
1:VR:376:THR:HG22	1:VR:394:ALA:CB	2.36	0.55
1:PU:363:PHE:CE1	1:PU:365:ALA:HB3	2.41	0.55
1:R4:457:ILE:HG21	1:S5:80:LYS:HB3	1.87	0.55
1:g6:46:SER:O	1:g6:50:VAL:HG23	2.05	0.55
1:e8:189:THR:O	1:e8:353:VAL:HG22	2.07	0.55
1:Z9:46:SER:O	1:Z9:50:VAL:HG23	2.06	0.55
1:FB:3:PHE:HZ	1:GQ:18:SER:HB3	1.71	0.55
1:FB:46:SER:O	1:FB:50:VAL:HG23	2.05	0.55
1:FB:353:VAL:CB	1:FB:359:GLN:HG3	2.25	0.55
1:JD:376:THR:HG22	1:JD:394:ALA:CB	2.36	0.55
1:UH:189:THR:O	1:UH:353:VAL:HG22	2.07	0.55
1:BJ:188:LEU:HD21	1:BJ:217:LEU:HD11	1.87	0.55
1:fK:189:THR:O	1:fK:353:VAL:HG22	2.06	0.55
1:TP:189:THR:O	1:TP:353:VAL:HG22	2.07	0.55
1:GQ:376:THR:HG22	1:GQ:394:ALA:CB	2.36	0.55
1:CT:188:LEU:HD21	1:CT:217:LEU:HD11	1.87	0.55
1:aW:46:SER:O	1:aW:50:VAL:HG23	2.05	0.55
1:EX:46:SER:O	1:EX:50:VAL:HG23	2.05	0.55
1:EX:363:PHE:CE1	1:EX:365:ALA:HB3	2.41	0.55
1:Y1:363:PHE:CE1	1:Y1:365:ALA:HB3	2.41	0.55
1:S5:189:THR:O	1:S5:353:VAL:HG22	2.07	0.55
1:g6:363:PHE:CE1	1:g6:365:ALA:HB3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:46:SER:CB	1:EX:112:ILE:HG12	2.36	0.55
1:A7:188:LEU:HD21	1:A7:217:LEU:HD11	1.87	0.55
1:A7:239:THR:OG1	1:A7:402:VAL:HB	2.05	0.55
1:e8:363:PHE:CE1	1:e8:365:ALA:HB3	2.41	0.55
1:Z9:363:PHE:CE1	1:Z9:365:ALA:HB3	2.41	0.55
1:JD:29:LEU:HD13	1:HL:498:ALA:HB2	1.88	0.55
1:KE:363:PHE:CE1	1:KE:365:ALA:HB3	2.41	0.55
1:LF:363:PHE:CE1	1:LF:365:ALA:HB3	2.41	0.55
1:WG:380:LEU:HA	1:WG:426:ILE:HG21	1.88	0.55
1:UH:188:LEU:HD21	1:UH:217:LEU:HD11	1.87	0.55
1:fK:363:PHE:CE1	1:fK:365:ALA:HB3	2.41	0.55
1:HL:376:THR:HG22	1:HL:394:ALA:CB	2.36	0.55
1:DN:363:PHE:CE1	1:DN:365:ALA:HB3	2.41	0.55
1:VR:214:ILE:HG13	1:VR:234:ALA:HB2	1.88	0.55
1:VR:380:LEU:HA	1:VR:426:ILE:HG21	1.88	0.55
1:CT:239:THR:OG1	1:CT:402:VAL:HB	2.05	0.55
1:aW:376:THR:HG22	1:aW:394:ALA:CB	2.36	0.55
1:Y1:167:ASP:HB3	1:Y1:381:ARG:CZ	2.37	0.55
1:Y1:376:THR:HG22	1:Y1:394:ALA:CB	2.36	0.55
1:I3:376:THR:HG22	1:I3:394:ALA:CB	2.36	0.55
1:R4:461:ASN:HB2	1:S5:77:VAL:HG22	1.87	0.55
1:g6:77:VAL:HG22	1:bS:461:ASN:HB2	1.88	0.55
1:Z9:167:ASP:HB3	1:Z9:381:ARG:CZ	2.37	0.55
1:Z9:380:LEU:HA	1:Z9:426:ILE:HG21	1.88	0.55
1:OA:439:SER:HA	1:NI:45:ALA:HB1	1.87	0.55
1:JD:363:PHE:CE1	1:JD:365:ALA:HB3	2.41	0.55
1:KE:376:THR:HG22	1:KE:394:ALA:CB	2.36	0.55
1:WG:63:GLN:CD	1:VR:98:GLN:HB2	2.32	0.55
1:UH:380:LEU:HA	1:UH:426:ILE:HG21	1.88	0.55
1:BJ:239:THR:OG1	1:BJ:402:VAL:HB	2.05	0.55
1:HL:392:LYS:HB2	1:HL:410:LEU:HB2	1.89	0.55
1:XM:267:LYS:HG3	1:XM:268:ASN:OD1	2.07	0.55
1:VR:267:LYS:HG3	1:VR:268:ASN:OD1	2.07	0.55
1:aW:167:ASP:HB3	1:aW:381:ARG:CZ	2.37	0.55
1:aW:363:PHE:CE1	1:aW:365:ALA:HB3	2.41	0.55
1:aW:380:LEU:HA	1:aW:426:ILE:HG21	1.88	0.55
1:Y1:214:ILE:HG13	1:Y1:234:ALA:HB2	1.88	0.55
1:Y1:380:LEU:HA	1:Y1:426:ILE:HG21	1.88	0.55
1:Y1:457:ILE:HG21	1:cV:80:LYS:HB3	1.89	0.55
1:I3:80:LYS:HB3	1:DN:457:ILE:HG21	1.89	0.55
1:I3:392:LYS:HB2	1:I3:410:LEU:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e8:18:SER:HB3	1:dC:3:PHE:HZ	1.71	0.55
1:e8:167:ASP:HB3	1:e8:381:ARG:CZ	2.37	0.55
1:Z9:237:ILE:CG1	1:Z9:300:ARG:HG3	2.37	0.55
1:Z9:376:THR:HG22	1:Z9:394:ALA:CB	2.36	0.55
1:OA:18:SER:OG	1:OA:495:MET:HE2	2.07	0.55
1:FB:189:THR:O	1:FB:353:VAL:HG22	2.06	0.55
1:LF:239:THR:OG1	1:LF:402:VAL:HB	2.05	0.55
1:LF:376:THR:HG22	1:LF:394:ALA:CB	2.36	0.55
1:WG:267:LYS:HG3	1:WG:268:ASN:OD1	2.07	0.55
1:BJ:457:ILE:HG21	1:EX:80:LYS:HB3	1.88	0.55
1:fK:167:ASP:HB3	1:fK:381:ARG:CZ	2.37	0.55
1:HL:98:GLN:HB2	1:GQ:63:GLN:CD	2.32	0.55
1:XM:214:ILE:HG13	1:XM:234:ALA:HB2	1.88	0.55
1:aW:237:ILE:CG1	1:aW:300:ARG:HG3	2.37	0.55
1:Y1:267:LYS:HG3	1:Y1:268:ASN:OD1	2.07	0.55
1:Q2:167:ASP:HB3	1:Q2:381:ARG:CZ	2.37	0.55
1:I3:77:VAL:HG22	1:DN:461:ASN:HB2	1.89	0.55
1:I3:167:ASP:HB3	1:I3:381:ARG:CZ	2.37	0.55
1:I3:189:THR:O	1:I3:353:VAL:HG22	2.06	0.55
1:R4:46:SER:O	1:R4:50:VAL:HG23	2.05	0.55
1:S5:18:SER:OG	1:S5:495:MET:HE2	2.07	0.55
1:g6:167:ASP:HB3	1:g6:381:ARG:CZ	2.37	0.55
1:JD:167:ASP:HB3	1:JD:381:ARG:CZ	2.37	0.55
1:JD:474:PHE:HE2	1:KE:5:VAL:HB	1.72	0.55
1:KE:239:THR:OG1	1:KE:402:VAL:HB	2.05	0.55
1:KE:265:ILE:HD13	1:KE:273:ARG:HD2	1.89	0.55
1:LF:46:SER:HB2	1:NI:112:ILE:HG12	1.89	0.55
1:LF:265:ILE:HD13	1:LF:273:ARG:HD2	1.89	0.55
1:WG:214:ILE:HG13	1:WG:234:ALA:HB2	1.89	0.55
1:NI:167:ASP:HB3	1:NI:381:ARG:CZ	2.37	0.55
1:MO:18:SER:OG	1:MO:495:MET:HE2	2.07	0.55
1:TP:267:LYS:HG3	1:TP:268:ASN:OD1	2.07	0.55
1:VR:167:ASP:HB3	1:VR:381:ARG:CZ	2.37	0.55
1:bS:214:ILE:HG13	1:bS:234:ALA:HB2	1.88	0.55
1:CT:392:LYS:HB2	1:CT:410:LEU:HB2	1.89	0.55
1:PU:167:ASP:HB3	1:PU:381:ARG:CZ	2.37	0.55
1:EX:189:THR:O	1:EX:353:VAL:HG22	2.06	0.55
1:R4:167:ASP:HB3	1:R4:381:ARG:CZ	2.37	0.55
1:S5:46:SER:HB2	1:VR:112:ILE:HG12	1.89	0.55
1:S5:167:ASP:HB3	1:S5:381:ARG:CZ	2.37	0.55
1:S5:267:LYS:HG3	1:S5:268:ASN:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:380:LEU:HA	1:S5:426:ILE:HG21	1.88	0.55
1:A7:46:SER:HB2	1:EX:112:ILE:HG12	1.89	0.55
1:A7:133:ASN:O	1:BJ:105:THR:HG21	2.06	0.55
1:e8:392:LYS:HB2	1:e8:410:LEU:HB2	1.89	0.55
1:Z9:214:ILE:HG13	1:Z9:234:ALA:HB2	1.88	0.55
1:Z9:267:LYS:HG3	1:Z9:268:ASN:OD1	2.07	0.55
1:FB:167:ASP:HB3	1:FB:381:ARG:CZ	2.37	0.55
1:FB:380:LEU:HA	1:FB:426:ILE:HG21	1.88	0.55
1:dC:214:ILE:HG13	1:dC:234:ALA:HB2	1.88	0.55
1:JD:239:THR:OG1	1:JD:402:VAL:HB	2.05	0.55
1:JD:265:ILE:HD13	1:JD:273:ARG:HD2	1.89	0.55
1:KE:167:ASP:HB3	1:KE:381:ARG:CZ	2.37	0.55
1:LF:189:THR:O	1:LF:353:VAL:HG22	2.07	0.55
1:WG:167:ASP:HB3	1:WG:381:ARG:CZ	2.37	0.55
1:UH:18:SER:OG	1:UH:495:MET:HE2	2.07	0.55
1:UH:267:LYS:HG3	1:UH:268:ASN:OD1	2.07	0.55
1:NI:18:SER:OG	1:NI:495:MET:HE2	2.07	0.55
1:BJ:61:LEU:HD22	1:BJ:455:ILE:HG23	1.89	0.55
1:BJ:392:LYS:HB2	1:BJ:410:LEU:HB2	1.89	0.55
1:HL:189:THR:O	1:HL:353:VAL:HG22	2.06	0.55
1:HL:380:LEU:HA	1:HL:426:ILE:HG21	1.88	0.55
1:XM:380:LEU:HA	1:XM:426:ILE:HG21	1.88	0.55
1:DN:189:THR:O	1:DN:353:VAL:HG22	2.06	0.55
1:MO:167:ASP:HB3	1:MO:381:ARG:CZ	2.37	0.55
1:TP:18:SER:OG	1:TP:495:MET:HE2	2.07	0.55
1:TP:380:LEU:HA	1:TP:426:ILE:HG21	1.88	0.55
1:GQ:167:ASP:HB3	1:GQ:381:ARG:CZ	2.37	0.55
1:GQ:380:LEU:HA	1:GQ:426:ILE:HG21	1.88	0.55
1:GQ:392:LYS:HB2	1:GQ:410:LEU:HB2	1.89	0.55
1:cV:214:ILE:HG13	1:cV:234:ALA:HB2	1.88	0.55
1:aW:267:LYS:HG3	1:aW:268:ASN:OD1	2.07	0.55
1:EX:392:LYS:HB2	1:EX:410:LEU:HB2	1.89	0.55
1:I3:61:LEU:HD22	1:I3:455:ILE:HG23	1.89	0.55
1:I3:214:ILE:HG13	1:I3:234:ALA:HB2	1.88	0.55
1:A7:392:LYS:HB2	1:A7:410:LEU:HB2	1.89	0.55
1:Z9:5:VAL:HB	1:aW:474:PHE:HE2	1.71	0.55
1:OA:77:VAL:HG22	1:JD:461:ASN:HB2	1.88	0.55
1:FB:392:LYS:HB2	1:FB:410:LEU:HB2	1.89	0.55
1:dC:237:ILE:CG1	1:dC:300:ARG:HG3	2.37	0.55
1:JD:189:THR:O	1:JD:353:VAL:HG22	2.06	0.55
1:KE:80:LYS:HB3	1:GQ:457:ILE:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:189:THR:O	1:KE:353:VAL:HG22	2.07	0.55
1:LF:380:LEU:HA	1:LF:426:ILE:HG21	1.88	0.55
1:HL:61:LEU:HD22	1:HL:455:ILE:HG23	1.89	0.55
1:HL:167:ASP:HB3	1:HL:381:ARG:CZ	2.37	0.55
1:XM:167:ASP:HB3	1:XM:381:ARG:CZ	2.37	0.55
1:DN:188:LEU:HD21	1:DN:217:LEU:HD11	1.87	0.55
1:TP:167:ASP:HB3	1:TP:381:ARG:CZ	2.37	0.55
1:GQ:189:THR:O	1:GQ:353:VAL:HG22	2.06	0.55
1:VR:18:SER:OG	1:VR:495:MET:HE2	2.07	0.55
1:bS:308:GLU:HG2	1:bS:335:THR:CG2	2.27	0.55
1:bS:380:LEU:HA	1:bS:426:ILE:HG21	1.88	0.55
1:PU:46:SER:O	1:PU:50:VAL:HG23	2.06	0.55
1:aW:18:SER:OG	1:aW:495:MET:HE2	2.07	0.55
1:aW:214:ILE:HG13	1:aW:234:ALA:HB2	1.88	0.55
1:Q2:46:SER:O	1:Q2:50:VAL:HG23	2.06	0.55
1:I3:380:LEU:HA	1:I3:426:ILE:HG21	1.88	0.55
1:R4:3:PHE:HZ	1:S5:18:SER:HB3	1.71	0.55
1:R4:188:LEU:HD21	1:R4:217:LEU:HD11	1.87	0.55
1:R4:189:THR:O	1:R4:353:VAL:HG22	2.07	0.55
1:A7:3:PHE:HZ	1:FB:18:SER:HB3	1.70	0.55
1:A7:61:LEU:HD22	1:A7:455:ILE:HG23	1.89	0.55
1:Z9:3:PHE:HZ	1:bS:18:SER:HB3	1.71	0.55
1:Z9:18:SER:OG	1:Z9:495:MET:HE2	2.07	0.55
1:OA:167:ASP:HB3	1:OA:381:ARG:CZ	2.37	0.55
1:FB:61:LEU:HD22	1:FB:455:ILE:HG23	1.89	0.55
1:FB:188:LEU:HD21	1:FB:217:LEU:HD11	1.87	0.55
1:FB:265:ILE:HD13	1:FB:273:ARG:HD2	1.88	0.55
1:KE:474:PHE:HE2	1:LF:5:VAL:HB	1.72	0.55
1:LF:167:ASP:HB3	1:LF:381:ARG:CZ	2.37	0.55
1:LF:392:LYS:HB2	1:LF:410:LEU:HB2	1.89	0.55
1:UH:167:ASP:HB3	1:UH:381:ARG:CZ	2.37	0.55
1:NI:392:LYS:HB2	1:NI:410:LEU:HB2	1.89	0.55
1:BJ:5:VAL:HB	1:CT:474:PHE:HE2	1.72	0.55
1:fK:392:LYS:HB2	1:fK:410:LEU:HB2	1.89	0.55
1:HL:214:ILE:HG13	1:HL:234:ALA:HB2	1.88	0.55
1:DN:61:LEU:HD22	1:DN:455:ILE:HG23	1.89	0.55
1:TP:457:ILE:HG21	1:VR:80:LYS:HB3	1.89	0.55
1:GQ:214:ILE:HG13	1:GQ:234:ALA:HB2	1.88	0.55
1:bS:167:ASP:HB3	1:bS:381:ARG:CZ	2.37	0.55
1:CT:61:LEU:HD22	1:CT:455:ILE:HG23	1.89	0.55
1:EX:61:LEU:HD22	1:EX:455:ILE:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:167:ASP:HB3	1:EX:381:ARG:CZ	2.37	0.55
1:EX:188:LEU:HD21	1:EX:217:LEU:HD11	1.87	0.55
1:EX:380:LEU:HA	1:EX:426:ILE:HG21	1.88	0.55
1:Y1:18:SER:OG	1:Y1:495:MET:HE2	2.07	0.55
1:Q2:188:LEU:HD21	1:Q2:217:LEU:HD11	1.87	0.55
1:Q2:189:THR:O	1:Q2:353:VAL:HG22	2.06	0.55
1:g6:61:LEU:HD22	1:g6:455:ILE:HG23	1.89	0.55
1:g6:392:LYS:HB2	1:g6:410:LEU:HB2	1.89	0.55
1:A7:167:ASP:HB3	1:A7:381:ARG:CZ	2.37	0.55
1:OA:392:LYS:HB2	1:OA:410:LEU:HB2	1.89	0.55
1:dC:167:ASP:HB3	1:dC:381:ARG:CZ	2.37	0.55
1:dC:380:LEU:HA	1:dC:426:ILE:HG21	1.88	0.55
1:KE:380:LEU:HA	1:KE:426:ILE:HG21	1.88	0.55
1:LF:61:LEU:HD22	1:LF:455:ILE:HG23	1.89	0.55
1:WG:18:SER:OG	1:WG:495:MET:HE2	2.07	0.55
1:XM:18:SER:OG	1:XM:495:MET:HE2	2.07	0.55
1:XM:189:THR:O	1:XM:353:VAL:HG22	2.06	0.55
1:DN:380:LEU:HA	1:DN:426:ILE:HG21	1.88	0.55
1:MO:392:LYS:HB2	1:MO:410:LEU:HB2	1.89	0.55
1:GQ:61:LEU:HD22	1:GQ:455:ILE:HG23	1.90	0.55
1:bS:237:ILE:CG1	1:bS:300:ARG:HG3	2.37	0.55
1:CT:167:ASP:HB3	1:CT:381:ARG:CZ	2.37	0.55
1:PU:214:ILE:HG13	1:PU:234:ALA:HB2	1.88	0.55
1:PU:380:LEU:HA	1:PU:426:ILE:HG21	1.88	0.55
1:cV:167:ASP:HB3	1:cV:381:ARG:CZ	2.37	0.55
1:cV:237:ILE:CG1	1:cV:300:ARG:HG3	2.37	0.55
1:cV:308:GLU:HG2	1:cV:335:THR:CG2	2.27	0.55
1:I3:18:SER:OG	1:I3:495:MET:HE2	2.07	0.54
1:A7:380:LEU:HA	1:A7:426:ILE:HG21	1.88	0.54
1:e8:61:LEU:HD22	1:e8:455:ILE:HG23	1.89	0.54
1:Z9:77:VAL:HG22	1:WG:461:ASN:HB2	1.88	0.54
1:dC:189:THR:O	1:dC:353:VAL:HG22	2.06	0.54
1:JD:61:LEU:HD22	1:JD:455:ILE:HG23	1.89	0.54
1:KE:18:SER:HB3	1:GQ:3:PHE:HZ	1.72	0.54
1:KE:61:LEU:HD22	1:KE:455:ILE:HG23	1.89	0.54
1:WG:189:THR:O	1:WG:353:VAL:HG22	2.06	0.54
1:UH:80:LYS:HB3	1:PU:457:ILE:HG21	1.88	0.54
1:NI:474:PHE:HE2	1:MO:5:VAL:HB	1.71	0.54
1:BJ:167:ASP:HB3	1:BJ:381:ARG:CZ	2.37	0.54
1:fK:61:LEU:HD22	1:fK:455:ILE:HG23	1.89	0.54
1:DN:167:ASP:HB3	1:DN:381:ARG:CZ	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:265:ILE:HD13	1:DN:273:ARG:HD2	1.89	0.54
1:DN:392:LYS:HB2	1:DN:410:LEU:HB2	1.89	0.54
1:bS:18:SER:OG	1:bS:495:MET:HE2	2.07	0.54
1:bS:363:PHE:CE1	1:bS:365:ALA:HB3	2.41	0.54
1:bS:392:LYS:HB2	1:bS:410:LEU:HB2	1.89	0.54
1:PU:188:LEU:HD21	1:PU:217:LEU:HD11	1.87	0.54
1:PU:267:LYS:HG3	1:PU:268:ASN:OD1	2.07	0.54
1:cV:380:LEU:HA	1:cV:426:ILE:HG21	1.88	0.54
1:EX:265:ILE:HD13	1:EX:273:ARG:HD2	1.89	0.54
1:Y1:63:GLN:CD	1:Z9:98:GLN:HB2	2.32	0.54
1:Y1:77:VAL:HG22	1:XM:461:ASN:HB2	1.88	0.54
1:Y1:392:LYS:HB2	1:Y1:410:LEU:HB2	1.89	0.54
1:Q2:267:LYS:HG3	1:Q2:268:ASN:OD1	2.07	0.54
1:g6:380:LEU:HA	1:g6:426:ILE:HG21	1.88	0.54
1:Z9:392:LYS:HB2	1:Z9:410:LEU:HB2	1.89	0.54
1:dC:267:LYS:HG3	1:dC:268:ASN:OD1	2.07	0.54
1:dC:308:GLU:HG2	1:dC:335:THR:CG2	2.27	0.54
1:dC:363:PHE:CE1	1:dC:365:ALA:HB3	2.41	0.54
1:JD:380:LEU:HA	1:JD:426:ILE:HG21	1.88	0.54
1:KE:392:LYS:HB2	1:KE:410:LEU:HB2	1.89	0.54
1:LF:461:ASN:HB2	1:MO:77:VAL:HG22	1.88	0.54
1:WG:308:GLU:HG2	1:WG:335:THR:CG2	2.27	0.54
1:UH:77:VAL:HG22	1:PU:461:ASN:HB2	1.88	0.54
1:HL:18:SER:OG	1:HL:495:MET:HE2	2.07	0.54
1:VR:308:GLU:HG2	1:VR:335:THR:CG2	2.27	0.54
1:PU:18:SER:OG	1:PU:495:MET:HE2	2.07	0.54
1:PU:189:THR:O	1:PU:353:VAL:HG22	2.06	0.54
1:PU:353:VAL:CB	1:PU:359:GLN:HG3	2.25	0.54
1:cV:18:SER:OG	1:cV:495:MET:HE2	2.07	0.54
1:cV:363:PHE:CE1	1:cV:365:ALA:HB3	2.41	0.54
1:cV:392:LYS:HB2	1:cV:410:LEU:HB2	1.89	0.54
1:Q2:214:ILE:HG13	1:Q2:234:ALA:HB2	1.88	0.54
1:Q2:380:LEU:HA	1:Q2:426:ILE:HG21	1.88	0.54
1:R4:267:LYS:HG3	1:R4:268:ASN:OD1	2.07	0.54
1:g6:80:LYS:HB3	1:bS:457:ILE:HG21	1.88	0.54
1:FB:5:VAL:HB	1:EX:474:PHE:HE2	1.72	0.54
1:JD:18:SER:OG	1:JD:495:MET:HE2	2.07	0.54
1:JD:392:LYS:HB2	1:JD:410:LEU:HB2	1.89	0.54
1:WG:5:VAL:HB	1:VR:474:PHE:HE2	1.72	0.54
1:BJ:214:ILE:HG13	1:BJ:234:ALA:HB2	1.88	0.54
1:BJ:380:LEU:HA	1:BJ:426:ILE:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:308:GLU:HG2	1:XM:335:THR:CG2	2.27	0.54
1:MO:61:LEU:HD22	1:MO:455:ILE:HG23	1.89	0.54
1:GQ:18:SER:OG	1:GQ:495:MET:HE2	2.07	0.54
1:bS:267:LYS:HG3	1:bS:268:ASN:OD1	2.07	0.54
1:bS:474:PHE:HE2	1:cV:5:VAL:HB	1.72	0.54
1:CT:214:ILE:HG13	1:CT:234:ALA:HB2	1.88	0.54
1:cV:189:THR:O	1:cV:353:VAL:HG22	2.06	0.54
1:cV:267:LYS:HG3	1:cV:268:ASN:OD1	2.07	0.54
1:aW:308:GLU:HG2	1:aW:335:THR:CG2	2.27	0.54
1:Y1:3:PHE:HZ	1:cV:18:SER:HB3	1.72	0.54
1:Q2:18:SER:HB3	1:MO:3:PHE:HZ	1.72	0.54
1:Q2:18:SER:OG	1:Q2:495:MET:HE2	2.07	0.54
1:R4:380:LEU:HA	1:R4:426:ILE:HG21	1.88	0.54
1:OA:61:LEU:HD22	1:OA:455:ILE:HG23	1.89	0.54
1:OA:267:LYS:HG3	1:OA:268:ASN:OD1	2.07	0.54
1:OA:380:LEU:HA	1:OA:426:ILE:HG21	1.88	0.54
1:dC:18:SER:OG	1:dC:495:MET:HE2	2.07	0.54
1:dC:61:LEU:HD22	1:dC:455:ILE:HG23	1.89	0.54
1:JD:18:SER:HB3	1:HL:3:PHE:HZ	1.72	0.54
1:KE:18:SER:OG	1:KE:495:MET:HE2	2.07	0.54
1:NI:61:LEU:HD22	1:NI:455:ILE:HG23	1.89	0.54
1:NI:267:LYS:HG3	1:NI:268:ASN:OD1	2.07	0.54
1:fK:380:LEU:HA	1:fK:426:ILE:HG21	1.88	0.54
1:DN:267:LYS:HG3	1:DN:268:ASN:OD1	2.07	0.54
1:MO:380:LEU:HA	1:MO:426:ILE:HG21	1.88	0.54
1:VR:189:THR:O	1:VR:353:VAL:HG22	2.06	0.54
1:bS:61:LEU:HD22	1:bS:455:ILE:HG23	1.89	0.54
1:CT:189:THR:O	1:CT:353:VAL:HG22	2.06	0.54
1:CT:267:LYS:HG3	1:CT:268:ASN:OD1	2.07	0.54
1:CT:380:LEU:HA	1:CT:426:ILE:HG21	1.88	0.54
1:cV:61:LEU:HD22	1:cV:455:ILE:HG23	1.89	0.54
1:Y1:5:VAL:HB	1:Z9:474:PHE:HE2	1.72	0.54
1:Y1:461:ASN:HB2	1:cV:77:VAL:HG22	1.89	0.54
1:Q2:353:VAL:CB	1:Q2:359:GLN:HG3	2.25	0.54
1:I3:267:LYS:HG3	1:I3:268:ASN:OD1	2.07	0.54
1:I3:474:PHE:HE2	1:HL:5:VAL:HB	1.71	0.54
1:R4:18:SER:OG	1:R4:495:MET:HE2	2.07	0.54
1:g6:474:PHE:HE2	1:fK:5:VAL:HB	1.71	0.54
1:A7:214:ILE:HG13	1:A7:234:ALA:HB2	1.88	0.54
1:Z9:308:GLU:HG2	1:Z9:335:THR:CG2	2.27	0.54
1:dC:392:LYS:HB2	1:dC:410:LEU:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:3:PHE:HZ	1:MO:18:SER:HB3	1.71	0.54
1:UH:474:PHE:HE2	1:TP:5:VAL:HB	1.72	0.54
1:HL:267:LYS:HG3	1:HL:268:ASN:OD1	2.07	0.54
1:DN:18:SER:OG	1:DN:495:MET:HE2	2.07	0.54
1:MO:267:LYS:HG3	1:MO:268:ASN:OD1	2.07	0.54
1:aW:392:LYS:HB2	1:aW:410:LEU:HB2	1.89	0.54
1:EX:267:LYS:HG3	1:EX:268:ASN:OD1	2.07	0.54
1:Y1:308:GLU:HG2	1:Y1:335:THR:CG2	2.27	0.54
1:R4:214:ILE:HG13	1:R4:234:ALA:HB2	1.88	0.54
1:R4:237:ILE:CG1	1:R4:300:ARG:HG3	2.37	0.54
1:g6:18:SER:OG	1:g6:495:MET:HE2	2.07	0.54
1:g6:267:LYS:HG3	1:g6:268:ASN:OD1	2.07	0.54
1:A7:267:LYS:HG3	1:A7:268:ASN:OD1	2.07	0.54
1:FB:267:LYS:HG3	1:FB:268:ASN:OD1	2.07	0.54
1:dC:46:SER:CB	1:fK:112:ILE:HG12	2.37	0.54
1:JD:267:LYS:HG3	1:JD:268:ASN:OD1	2.07	0.54
1:KE:267:LYS:HG3	1:KE:268:ASN:OD1	2.07	0.54
1:KE:457:ILE:HG21	1:NI:80:LYS:HB3	1.90	0.54
1:NI:380:LEU:HA	1:NI:426:ILE:HG21	1.88	0.54
1:NI:433:MET:O	1:NI:437:VAL:HG23	2.08	0.54
1:BJ:265:ILE:HD13	1:BJ:273:ARG:HD2	1.89	0.54
1:BJ:267:LYS:HG3	1:BJ:268:ASN:OD1	2.07	0.54
1:fK:18:SER:HB3	1:cV:3:PHE:HZ	1.72	0.54
1:MO:433:MET:O	1:MO:437:VAL:HG23	2.08	0.54
1:GQ:267:LYS:HG3	1:GQ:268:ASN:OD1	2.07	0.54
1:bS:189:THR:O	1:bS:353:VAL:HG22	2.07	0.54
1:CT:265:ILE:HD13	1:CT:273:ARG:HD2	1.89	0.54
1:aW:61:LEU:HD22	1:aW:455:ILE:HG23	1.89	0.54
1:Y1:265:ILE:HD13	1:Y1:273:ARG:HD2	1.89	0.54
1:Y1:498:ALA:HB2	1:cV:29:LEU:HD13	1.90	0.54
1:Q2:237:ILE:CG1	1:Q2:300:ARG:HG3	2.37	0.54
1:S5:5:VAL:HB	1:TP:474:PHE:HE2	1.72	0.54
1:S5:392:LYS:HB2	1:S5:410:LEU:HB2	1.89	0.54
1:A7:63:GLN:CD	1:BJ:98:GLN:HB2	2.33	0.54
1:A7:265:ILE:HD13	1:A7:273:ARG:HD2	1.89	0.54
1:e8:380:LEU:HA	1:e8:426:ILE:HG21	1.88	0.54
1:Z9:80:LYS:HB3	1:WG:457:ILE:HG21	1.88	0.54
1:Z9:265:ILE:HD13	1:Z9:273:ARG:HD2	1.89	0.54
1:OA:237:ILE:CG1	1:OA:300:ARG:HG3	2.37	0.54
1:OA:433:MET:O	1:OA:437:VAL:HG23	2.08	0.54
1:LF:18:SER:OG	1:LF:495:MET:HE2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:267:LYS:HG3	1:LF:268:ASN:OD1	2.07	0.54
1:BJ:189:THR:O	1:BJ:353:VAL:HG22	2.07	0.54
1:fK:18:SER:OG	1:fK:495:MET:HE2	2.07	0.54
1:EX:18:SER:OG	1:EX:495:MET:HE2	2.07	0.54
1:Y1:61:LEU:HD22	1:Y1:455:ILE:HG23	1.89	0.54
1:Q2:5:VAL:HB	1:PU:474:PHE:HE2	1.72	0.54
1:Q2:61:LEU:HD22	1:Q2:455:ILE:HG23	1.89	0.54
1:Q2:433:MET:O	1:Q2:437:VAL:HG23	2.08	0.54
1:R4:433:MET:O	1:R4:437:VAL:HG23	2.08	0.54
1:e8:18:SER:OG	1:e8:495:MET:HE2	2.07	0.54
1:e8:267:LYS:HG3	1:e8:268:ASN:OD1	2.07	0.54
1:Z9:61:LEU:HD22	1:Z9:455:ILE:HG23	1.89	0.54
1:UH:392:LYS:HB2	1:UH:410:LEU:HB2	1.89	0.54
1:fK:267:LYS:HG3	1:fK:268:ASN:OD1	2.07	0.54
1:TP:392:LYS:HB2	1:TP:410:LEU:HB2	1.89	0.54
1:TP:433:MET:O	1:TP:437:VAL:HG23	2.08	0.54
1:CT:18:SER:OG	1:CT:495:MET:HE2	2.07	0.54
1:PU:237:ILE:CG1	1:PU:300:ARG:HG3	2.37	0.54
1:PU:433:MET:O	1:PU:437:VAL:HG23	2.08	0.54
1:aW:265:ILE:HD13	1:aW:273:ARG:HD2	1.89	0.54
1:R4:61:LEU:HD22	1:R4:455:ILE:HG23	1.89	0.54
1:R4:353:VAL:CB	1:R4:359:GLN:HG3	2.25	0.54
1:S5:433:MET:O	1:S5:437:VAL:HG23	2.08	0.54
1:A7:189:THR:O	1:A7:353:VAL:HG22	2.07	0.54
1:e8:113:GLN:CD	1:e8:413:GLY:HA3	2.33	0.54
1:e8:214:ILE:HG13	1:e8:234:ALA:HB2	1.88	0.54
1:FB:18:SER:OG	1:FB:495:MET:HE2	2.07	0.54
1:dC:113:GLN:CD	1:dC:413:GLY:HA3	2.33	0.54
1:KE:29:LEU:HD13	1:GQ:498:ALA:HB2	1.89	0.54
1:LF:214:ILE:HG13	1:LF:234:ALA:HB2	1.88	0.54
1:WG:265:ILE:HD13	1:WG:273:ARG:HD2	1.89	0.54
1:UH:433:MET:O	1:UH:437:VAL:HG23	2.08	0.54
1:BJ:18:SER:OG	1:BJ:495:MET:HE2	2.07	0.54
1:BJ:113:GLN:CD	1:BJ:413:GLY:HA3	2.33	0.54
1:XM:265:ILE:HD13	1:XM:273:ARG:HD2	1.89	0.54
1:TP:61:LEU:HD22	1:TP:455:ILE:HG23	1.89	0.54
1:bS:265:ILE:HD13	1:bS:273:ARG:HD2	1.89	0.54
1:CT:113:GLN:CD	1:CT:413:GLY:HA3	2.33	0.54
1:PU:61:LEU:HD22	1:PU:455:ILE:HG23	1.89	0.54
1:cV:265:ILE:HD13	1:cV:273:ARG:HD2	1.89	0.54
1:S5:61:LEU:HD22	1:S5:455:ILE:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:353:VAL:CB	1:g6:359:GLN:HG3	2.25	0.54
1:e8:77:VAL:HG22	1:dC:461:ASN:HB2	1.90	0.54
1:FB:498:ALA:HB2	1:GQ:29:LEU:HD13	1.89	0.54
1:dC:265:ILE:HD13	1:dC:273:ARG:HD2	1.89	0.54
1:WG:61:LEU:HD22	1:WG:455:ILE:HG23	1.89	0.54
1:NI:98:GLN:HB2	1:MO:63:GLN:CD	2.33	0.54
1:fK:214:ILE:HG13	1:fK:234:ALA:HB2	1.88	0.54
1:XM:61:LEU:HD22	1:XM:455:ILE:HG23	1.89	0.54
1:DN:474:PHE:HE2	1:EX:5:VAL:HB	1.72	0.54
1:GQ:265:ILE:HD13	1:GQ:273:ARG:HD2	1.89	0.54
1:VR:61:LEU:HD22	1:VR:455:ILE:HG23	1.89	0.54
1:VR:265:ILE:HD13	1:VR:273:ARG:HD2	1.89	0.54
1:R4:265:ILE:HD13	1:R4:273:ARG:HD2	1.89	0.53
1:R4:498:ALA:HB2	1:S5:29:LEU:HD13	1.88	0.53
1:g6:98:GLN:HB2	1:fK:63:GLN:CD	2.33	0.53
1:g6:113:GLN:CD	1:g6:413:GLY:HA3	2.33	0.53
1:A7:113:GLN:CD	1:A7:413:GLY:HA3	2.33	0.53
1:e8:29:LEU:HD13	1:dC:498:ALA:HB2	1.90	0.53
1:e8:498:ALA:HB2	1:BJ:29:LEU:HD13	1.90	0.53
1:OA:27:THR:O	1:OA:31:ARG:HG3	2.09	0.53
1:JD:98:GLN:HB2	1:KE:63:GLN:CD	2.33	0.53
1:KE:214:ILE:HG13	1:KE:234:ALA:HB2	1.88	0.53
1:KE:433:MET:O	1:KE:437:VAL:HG23	2.08	0.53
1:UH:61:LEU:HD22	1:UH:455:ILE:HG23	1.89	0.53
1:NI:27:THR:O	1:NI:31:ARG:HG3	2.09	0.53
1:fK:113:GLN:CD	1:fK:413:GLY:HA3	2.33	0.53
1:MO:27:THR:O	1:MO:31:ARG:HG3	2.09	0.53
1:CT:433:MET:O	1:CT:437:VAL:HG23	2.08	0.53
1:cV:113:GLN:CD	1:cV:413:GLY:HA3	2.33	0.53
1:I3:265:ILE:HD13	1:I3:273:ARG:HD2	1.89	0.53
1:S5:457:ILE:HG21	1:WG:80:LYS:HB3	1.90	0.53
1:A7:18:SER:OG	1:A7:495:MET:HE2	2.07	0.53
1:A7:433:MET:O	1:A7:437:VAL:HG23	2.08	0.53
1:e8:237:ILE:CG1	1:e8:300:ARG:HG3	2.37	0.53
1:OA:265:ILE:HD13	1:OA:273:ARG:HD2	1.89	0.53
1:JD:433:MET:O	1:JD:437:VAL:HG23	2.08	0.53
1:WG:433:MET:O	1:WG:437:VAL:HG23	2.08	0.53
1:BJ:433:MET:O	1:BJ:437:VAL:HG23	2.08	0.53
1:fK:498:ALA:HB2	1:CT:29:LEU:HD13	1.90	0.53
1:HL:113:GLN:CD	1:HL:413:GLY:HA3	2.33	0.53
1:HL:265:ILE:HD13	1:HL:273:ARG:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:433:MET:O	1:XM:437:VAL:HG23	2.08	0.53
1:PU:265:ILE:HD13	1:PU:273:ARG:HD2	1.89	0.53
1:aW:113:GLN:CD	1:aW:413:GLY:HA3	2.33	0.53
1:Y1:113:GLN:CD	1:Y1:413:GLY:HA3	2.33	0.53
1:Y1:433:MET:O	1:Y1:437:VAL:HG23	2.08	0.53
1:Q2:80:LYS:HB3	1:MO:457:ILE:HG21	1.90	0.53
1:Q2:98:GLN:HB2	1:R4:63:GLN:CD	2.33	0.53
1:Q2:265:ILE:HD13	1:Q2:273:ARG:HD2	1.89	0.53
1:Q2:474:PHE:HE2	1:R4:5:VAL:HB	1.72	0.53
1:I3:113:GLN:CD	1:I3:413:GLY:HA3	2.33	0.53
1:R4:392:LYS:HB2	1:R4:410:LEU:HB2	1.89	0.53
1:g6:214:ILE:HG13	1:g6:234:ALA:HB2	1.88	0.53
1:e8:433:MET:O	1:e8:437:VAL:HG23	2.08	0.53
1:Z9:113:GLN:CD	1:Z9:413:GLY:HA3	2.33	0.53
1:OA:72:MET:HE1	1:OA:452:VAL:HG21	1.90	0.53
1:dC:5:VAL:HB	1:cV:474:PHE:HE2	1.73	0.53
1:dC:46:SER:HB2	1:fK:112:ILE:HG12	1.90	0.53
1:dC:433:MET:O	1:dC:437:VAL:HG23	2.08	0.53
1:KE:72:MET:HE1	1:KE:452:VAL:HG21	1.90	0.53
1:LF:433:MET:O	1:LF:437:VAL:HG23	2.08	0.53
1:NI:265:ILE:HD13	1:NI:273:ARG:HD2	1.89	0.53
1:fK:433:MET:O	1:fK:437:VAL:HG23	2.08	0.53
1:TP:461:ASN:HB2	1:VR:77:VAL:HG22	1.89	0.53
1:GQ:113:GLN:CD	1:GQ:413:GLY:HA3	2.33	0.53
1:VR:27:THR:O	1:VR:31:ARG:HG3	2.09	0.53
1:VR:433:MET:O	1:VR:437:VAL:HG23	2.08	0.53
1:bS:113:GLN:CD	1:bS:413:GLY:HA3	2.33	0.53
1:bS:433:MET:O	1:bS:437:VAL:HG23	2.08	0.53
1:I3:27:THR:O	1:I3:31:ARG:HG3	2.09	0.53
1:I3:98:GLN:HB2	1:HL:63:GLN:CD	2.34	0.53
1:I3:353:VAL:CB	1:I3:359:GLN:HG3	2.25	0.53
1:S5:237:ILE:CG1	1:S5:300:ARG:HG3	2.37	0.53
1:S5:265:ILE:HD13	1:S5:273:ARG:HD2	1.89	0.53
1:g6:433:MET:O	1:g6:437:VAL:HG23	2.08	0.53
1:Z9:433:MET:O	1:Z9:437:VAL:HG23	2.08	0.53
1:FB:214:ILE:HG13	1:FB:234:ALA:HB2	1.88	0.53
1:dC:63:GLN:CD	1:cV:98:GLN:HB2	2.34	0.53
1:JD:72:MET:HE1	1:JD:452:VAL:HG21	1.90	0.53
1:JD:214:ILE:HG13	1:JD:234:ALA:HB2	1.89	0.53
1:WG:27:THR:O	1:WG:31:ARG:HG3	2.09	0.53
1:WG:98:GLN:HB2	1:XM:63:GLN:CD	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:72:MET:HE1	1:NI:452:VAL:HG21	1.90	0.53
1:fK:353:VAL:CB	1:fK:359:GLN:HG3	2.25	0.53
1:HL:474:PHE:HE2	1:GQ:5:VAL:HB	1.72	0.53
1:XM:27:THR:O	1:XM:31:ARG:HG3	2.09	0.53
1:DN:237:ILE:CG1	1:DN:300:ARG:HG3	2.37	0.53
1:MO:265:ILE:HD13	1:MO:273:ARG:HD2	1.89	0.53
1:TP:265:ILE:HD13	1:TP:273:ARG:HD2	1.89	0.53
1:GQ:99:ALA:HB2	1:GQ:112:ILE:HG21	1.90	0.53
1:EX:214:ILE:HG13	1:EX:234:ALA:HB2	1.88	0.53
1:Q2:392:LYS:HB2	1:Q2:410:LEU:HB2	1.89	0.53
1:g6:237:ILE:CG1	1:g6:300:ARG:HG3	2.37	0.53
1:A7:461:ASN:HB2	1:FB:77:VAL:HG22	1.91	0.53
1:e8:265:ILE:HD13	1:e8:273:ARG:HD2	1.89	0.53
1:FB:99:ALA:HB2	1:FB:112:ILE:HG21	1.90	0.53
1:FB:433:MET:O	1:FB:437:VAL:HG23	2.08	0.53
1:KE:98:GLN:HB2	1:LF:63:GLN:CD	2.34	0.53
1:KE:461:ASN:HB2	1:NI:77:VAL:HG22	1.90	0.53
1:LF:72:MET:HE1	1:LF:452:VAL:HG21	1.90	0.53
1:LF:99:ALA:HB2	1:LF:112:ILE:HG21	1.90	0.53
1:WG:474:PHE:HE2	1:XM:5:VAL:HB	1.73	0.53
1:UH:265:ILE:HD13	1:UH:273:ARG:HD2	1.89	0.53
1:fK:77:VAL:HG22	1:cV:461:ASN:HB2	1.90	0.53
1:fK:237:ILE:CG1	1:fK:300:ARG:HG3	2.37	0.53
1:fK:265:ILE:HD13	1:fK:273:ARG:HD2	1.89	0.53
1:HL:18:SER:HB3	1:EX:3:PHE:HZ	1.73	0.53
1:HL:27:THR:O	1:HL:31:ARG:HG3	2.09	0.53
1:HL:99:ALA:HB2	1:HL:112:ILE:HG21	1.90	0.53
1:PU:113:GLN:CD	1:PU:413:GLY:HA3	2.33	0.53
1:cV:433:MET:O	1:cV:437:VAL:HG23	2.08	0.53
1:aW:433:MET:O	1:aW:437:VAL:HG23	2.08	0.53
1:Q2:113:GLN:CD	1:Q2:413:GLY:HA3	2.33	0.53
1:I3:72:MET:HE1	1:I3:452:VAL:HG21	1.90	0.53
1:I3:99:ALA:HB2	1:I3:112:ILE:HG21	1.90	0.53
1:S5:27:THR:O	1:S5:31:ARG:HG3	2.09	0.53
1:g6:265:ILE:HD13	1:g6:273:ARG:HD2	1.89	0.53
1:FB:63:GLN:CD	1:EX:98:GLN:HB2	2.34	0.53
1:KE:99:ALA:HB2	1:KE:112:ILE:HG21	1.90	0.53
1:NI:457:ILE:HG21	1:PU:80:LYS:HG3	1.91	0.53
1:DN:99:ALA:HB2	1:DN:112:ILE:HG21	1.90	0.53
1:DN:433:MET:O	1:DN:437:VAL:HG23	2.08	0.53
1:MO:72:MET:HE1	1:MO:452:VAL:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:27:THR:O	1:TP:31:ARG:HG3	2.09	0.53
1:GQ:27:THR:O	1:GQ:31:ARG:HG3	2.09	0.53
1:PU:392:LYS:HB2	1:PU:410:LEU:HB2	1.89	0.53
1:EX:99:ALA:HB2	1:EX:112:ILE:HG21	1.90	0.53
1:Q2:3:PHE:HZ	1:TP:18:SER:HB3	1.72	0.53
1:R4:113:GLN:CD	1:R4:413:GLY:HA3	2.33	0.53
1:A7:27:THR:O	1:A7:31:ARG:HG3	2.09	0.53
1:e8:27:THR:O	1:e8:31:ARG:HG3	2.09	0.53
1:JD:99:ALA:HB2	1:JD:112:ILE:HG21	1.90	0.53
1:WG:392:LYS:HB2	1:WG:410:LEU:HB2	1.89	0.53
1:UH:27:THR:O	1:UH:31:ARG:HG3	2.09	0.53
1:BJ:27:THR:O	1:BJ:31:ARG:HG3	2.09	0.53
1:TP:237:ILE:CG1	1:TP:300:ARG:HG3	2.37	0.53
1:GQ:72:MET:HE1	1:GQ:452:VAL:HG21	1.90	0.53
1:VR:392:LYS:HB2	1:VR:410:LEU:HB2	1.89	0.53
1:bS:98:GLN:HB2	1:cV:63:GLN:CD	2.34	0.53
1:PU:72:MET:HE1	1:PU:452:VAL:HG21	1.90	0.53
1:EX:433:MET:O	1:EX:437:VAL:HG23	2.08	0.53
1:Y1:142:PHE:CE2	1:Y1:145:LYS:HG3	2.44	0.53
1:Q2:72:MET:HE1	1:Q2:452:VAL:HG21	1.90	0.53
1:S5:3:PHE:HZ	1:WG:18:SER:HB3	1.72	0.53
1:A7:99:ALA:HB2	1:A7:112:ILE:HG21	1.90	0.53
1:e8:353:VAL:CB	1:e8:359:GLN:HG3	2.25	0.53
1:Z9:142:PHE:CE2	1:Z9:145:LYS:HG3	2.44	0.53
1:FB:113:GLN:CD	1:FB:413:GLY:HA3	2.33	0.53
1:dC:27:THR:O	1:dC:31:ARG:HG3	2.09	0.53
1:LF:498:ALA:HB2	1:MO:29:LEU:HD13	1.89	0.53
1:NI:113:GLN:CD	1:NI:413:GLY:HA3	2.33	0.53
1:BJ:99:ALA:HB2	1:BJ:112:ILE:HG21	1.90	0.53
1:fK:27:THR:O	1:fK:31:ARG:HG3	2.09	0.53
1:HL:72:MET:HE1	1:HL:452:VAL:HG21	1.90	0.53
1:XM:392:LYS:HB2	1:XM:410:LEU:HB2	1.89	0.53
1:DN:214:ILE:HG13	1:DN:234:ALA:HB2	1.88	0.53
1:bS:27:THR:O	1:bS:31:ARG:HG3	2.09	0.53
1:CT:27:THR:O	1:CT:31:ARG:HG3	2.09	0.53
1:aW:142:PHE:CE2	1:aW:145:LYS:HG3	2.44	0.53
1:S5:142:PHE:CE2	1:S5:145:LYS:HG3	2.44	0.53
1:g6:27:THR:O	1:g6:31:ARG:HG3	2.09	0.53
1:e8:80:LYS:HB3	1:dC:457:ILE:HG21	1.90	0.53
1:UH:72:MET:HE1	1:UH:452:VAL:HG21	1.90	0.53
1:UH:142:PHE:CE2	1:UH:145:LYS:HG3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:237:ILE:CG1	1:UH:300:ARG:HG3	2.37	0.53
1:HL:353:VAL:CB	1:HL:359:GLN:HG3	2.25	0.53
1:TP:142:PHE:CE2	1:TP:145:LYS:HG3	2.44	0.53
1:PU:27:THR:O	1:PU:31:ARG:HG3	2.09	0.53
1:cV:27:THR:O	1:cV:31:ARG:HG3	2.09	0.53
1:Q2:27:THR:O	1:Q2:31:ARG:HG3	2.09	0.53
1:Q2:63:GLN:CD	1:PU:98:GLN:HB2	2.34	0.53
1:R4:72:MET:HE1	1:R4:452:VAL:HG21	1.90	0.53
1:R4:142:PHE:CE2	1:R4:145:LYS:HG3	2.44	0.53
1:S5:63:GLN:CD	1:TP:98:GLN:HB2	2.34	0.53
1:e8:63:GLN:CD	1:fK:98:GLN:HB2	2.34	0.53
1:OA:113:GLN:CD	1:OA:413:GLY:HA3	2.33	0.53
1:FB:27:THR:O	1:FB:31:ARG:HG3	2.09	0.53
1:dC:142:PHE:CE2	1:dC:145:LYS:HG3	2.44	0.53
1:LF:113:GLN:CD	1:LF:413:GLY:HA3	2.33	0.53
1:WG:377:THR:HB	1:VR:273:ARG:NH1	2.24	0.53
1:fK:309:ILE:CG2	1:fK:330:LEU:HD22	2.39	0.53
1:DN:29:LEU:HD13	1:CT:498:ALA:HB2	1.91	0.53
1:MO:113:GLN:CD	1:MO:413:GLY:HA3	2.33	0.53
1:TP:72:MET:HE1	1:TP:452:VAL:HG21	1.90	0.53
1:VR:113:GLN:CD	1:VR:413:GLY:HA3	2.33	0.53
1:bS:142:PHE:CE2	1:bS:145:LYS:HG3	2.44	0.53
1:PU:142:PHE:CE2	1:PU:145:LYS:HG3	2.44	0.53
1:cV:142:PHE:CE2	1:cV:145:LYS:HG3	2.44	0.53
1:EX:113:GLN:CD	1:EX:413:GLY:HA3	2.33	0.53
1:Q2:176:THR:HG22	1:Q2:339:ARG:HH21	1.74	0.52
1:Q2:457:ILE:HG21	1:TP:80:LYS:HG3	1.91	0.52
1:I3:433:MET:O	1:I3:437:VAL:HG23	2.08	0.52
1:R4:27:THR:O	1:R4:31:ARG:HG3	2.09	0.52
1:g6:18:SER:HB3	1:bS:3:PHE:HZ	1.73	0.52
1:g6:29:LEU:HD13	1:bS:498:ALA:HB2	1.91	0.52
1:g6:309:ILE:CG2	1:g6:330:LEU:HD22	2.40	0.52
1:OA:142:PHE:CE2	1:OA:145:LYS:HG3	2.44	0.52
1:FB:237:ILE:CG1	1:FB:300:ARG:HG3	2.37	0.52
1:JD:113:GLN:CD	1:JD:413:GLY:HA3	2.33	0.52
1:KE:176:THR:HG22	1:KE:339:ARG:HH21	1.74	0.52
1:LF:27:THR:O	1:LF:31:ARG:HG3	2.09	0.52
1:LF:176:THR:HG22	1:LF:339:ARG:HH21	1.75	0.52
1:WG:113:GLN:CD	1:WG:413:GLY:HA3	2.33	0.52
1:NI:142:PHE:CE2	1:NI:145:LYS:HG3	2.44	0.52
1:fK:80:LYS:HB3	1:cV:457:ILE:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:113:GLN:CD	1:XM:413:GLY:HA3	2.33	0.52
1:MO:99:ALA:HB2	1:MO:112:ILE:HG21	1.90	0.52
1:MO:142:PHE:CE2	1:MO:145:LYS:HG3	2.44	0.52
1:VR:309:ILE:CG2	1:VR:330:LEU:HD22	2.39	0.52
1:EX:27:THR:O	1:EX:31:ARG:HG3	2.09	0.52
1:EX:176:THR:HG22	1:EX:339:ARG:HH21	1.75	0.52
1:Y1:27:THR:O	1:Y1:31:ARG:HG3	2.09	0.52
1:Q2:77:VAL:HG22	1:MO:461:ASN:HB2	1.90	0.52
1:Q2:142:PHE:CE2	1:Q2:145:LYS:HG3	2.44	0.52
1:S5:72:MET:HE1	1:S5:452:VAL:HG21	1.90	0.52
1:S5:113:GLN:CD	1:S5:413:GLY:HA3	2.33	0.52
1:e8:309:ILE:CG2	1:e8:330:LEU:HD22	2.39	0.52
1:Z9:63:GLN:CD	1:aW:98:GLN:HB2	2.33	0.52
1:FB:176:THR:HG22	1:FB:339:ARG:HH21	1.75	0.52
1:KE:113:GLN:CD	1:KE:413:GLY:HA3	2.33	0.52
1:NI:99:ALA:HB2	1:NI:112:ILE:HG21	1.90	0.52
1:DN:27:THR:O	1:DN:31:ARG:HG3	2.09	0.52
1:DN:72:MET:HE1	1:DN:452:VAL:HG21	1.90	0.52
1:DN:176:THR:HG22	1:DN:339:ARG:HH21	1.75	0.52
1:GQ:353:VAL:CB	1:GQ:359:GLN:HG3	2.25	0.52
1:VR:142:PHE:CE2	1:VR:145:LYS:HG3	2.44	0.52
1:CT:99:ALA:HB2	1:CT:112:ILE:HG21	1.91	0.52
1:PU:176:THR:HG22	1:PU:339:ARG:HH21	1.75	0.52
1:Q2:498:ALA:HB2	1:TP:29:LEU:HD13	1.89	0.52
1:R4:176:THR:HG22	1:R4:339:ARG:HH21	1.75	0.52
1:S5:309:ILE:CG2	1:S5:330:LEU:HD22	2.40	0.52
1:A7:237:ILE:CG1	1:A7:300:ARG:HG3	2.37	0.52
1:e8:99:ALA:HB2	1:e8:112:ILE:HG21	1.90	0.52
1:Z9:27:THR:O	1:Z9:31:ARG:HG3	2.09	0.52
1:OA:99:ALA:HB2	1:OA:112:ILE:HG21	1.90	0.52
1:dC:309:ILE:CG2	1:dC:330:LEU:HD22	2.39	0.52
1:JD:27:THR:O	1:JD:31:ARG:HG3	2.09	0.52
1:JD:176:THR:HG22	1:JD:339:ARG:HH21	1.75	0.52
1:KE:27:THR:O	1:KE:31:ARG:HG3	2.09	0.52
1:WG:309:ILE:CG2	1:WG:330:LEU:HD22	2.39	0.52
1:HL:433:MET:O	1:HL:437:VAL:HG23	2.08	0.52
1:DN:113:GLN:CD	1:DN:413:GLY:HA3	2.33	0.52
1:TP:309:ILE:CG2	1:TP:330:LEU:HD22	2.39	0.52
1:GQ:237:ILE:CG1	1:GQ:300:ARG:HG3	2.37	0.52
1:aW:27:THR:O	1:aW:31:ARG:HG3	2.09	0.52
1:aW:353:VAL:CB	1:aW:359:GLN:HG3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:72:MET:HE1	1:EX:452:VAL:HG21	1.90	0.52
1:EX:237:ILE:CG1	1:EX:300:ARG:HG3	2.37	0.52
1:OA:176:THR:HG22	1:OA:339:ARG:HH21	1.74	0.52
1:FB:72:MET:HE1	1:FB:452:VAL:HG21	1.90	0.52
1:JD:80:LYS:HG3	1:HL:457:ILE:HG21	1.91	0.52
1:WG:72:MET:HE1	1:WG:452:VAL:HG21	1.90	0.52
1:WG:142:PHE:CE2	1:WG:145:LYS:HG3	2.44	0.52
1:UH:289:ALA:HB2	1:UH:299:LEU:CD2	2.40	0.52
1:UH:309:ILE:CG2	1:UH:330:LEU:HD22	2.39	0.52
1:BJ:237:ILE:CG1	1:BJ:300:ARG:HG3	2.37	0.52
1:fK:99:ALA:HB2	1:fK:112:ILE:HG21	1.90	0.52
1:HL:237:ILE:CG1	1:HL:300:ARG:HG3	2.37	0.52
1:XM:309:ILE:CG2	1:XM:330:LEU:HD22	2.40	0.52
1:TP:113:GLN:CD	1:TP:413:GLY:HA3	2.33	0.52
1:TP:289:ALA:HB2	1:TP:299:LEU:CD2	2.40	0.52
1:GQ:176:THR:HG22	1:GQ:339:ARG:HH21	1.75	0.52
1:GQ:433:MET:O	1:GQ:437:VAL:HG23	2.08	0.52
1:VR:72:MET:HE1	1:VR:452:VAL:HG21	1.90	0.52
1:I3:176:THR:HG22	1:I3:339:ARG:HH21	1.74	0.52
1:S5:289:ALA:HB2	1:S5:299:LEU:CD2	2.40	0.52
1:OA:309:ILE:CG2	1:OA:330:LEU:HD22	2.39	0.52
1:FB:309:ILE:CG2	1:FB:330:LEU:HD22	2.40	0.52
1:UH:98:GLN:HB2	1:TP:63:GLN:CD	2.34	0.52
1:UH:113:GLN:CD	1:UH:413:GLY:HA3	2.33	0.52
1:NI:309:ILE:CG2	1:NI:330:LEU:HD22	2.39	0.52
1:HL:176:THR:HG22	1:HL:339:ARG:HH21	1.75	0.52
1:XM:142:PHE:CE2	1:XM:145:LYS:HG3	2.44	0.52
1:MO:309:ILE:CG2	1:MO:330:LEU:HD22	2.39	0.52
1:CT:237:ILE:CG1	1:CT:300:ARG:HG3	2.37	0.52
1:cV:309:ILE:CG2	1:cV:330:LEU:HD22	2.40	0.52
1:aW:99:ALA:HB2	1:aW:112:ILE:HG21	1.90	0.52
1:EX:309:ILE:CG2	1:EX:330:LEU:HD22	2.39	0.52
1:Y1:59:SER:HB3	1:Z9:94:VAL:CG2	2.40	0.52
1:Y1:72:MET:HE1	1:Y1:452:VAL:HG21	1.90	0.52
1:I3:309:ILE:CG2	1:I3:330:LEU:HD22	2.39	0.52
1:S5:461:ASN:HB2	1:WG:77:VAL:HG22	1.90	0.52
1:g6:99:ALA:HB2	1:g6:112:ILE:HG21	1.90	0.52
1:g6:107:GLU:H	1:g6:107:GLU:CD	2.18	0.52
1:FB:107:GLU:H	1:FB:107:GLU:CD	2.18	0.52
1:JD:107:GLU:H	1:JD:107:GLU:CD	2.18	0.52
1:KE:107:GLU:H	1:KE:107:GLU:CD	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:107:GLU:CD	1:LF:107:GLU:H	2.18	0.52
1:NI:176:THR:HG22	1:NI:339:ARG:HH21	1.75	0.52
1:HL:309:ILE:CG2	1:HL:330:LEU:HD22	2.39	0.52
1:XM:289:ALA:HB2	1:XM:299:LEU:CD2	2.40	0.52
1:DN:309:ILE:CG2	1:DN:330:LEU:HD22	2.39	0.52
1:GQ:309:ILE:CG2	1:GQ:330:LEU:HD22	2.40	0.52
1:bS:99:ALA:HB2	1:bS:112:ILE:HG21	1.91	0.52
1:bS:309:ILE:CG2	1:bS:330:LEU:HD22	2.39	0.52
1:EX:107:GLU:CD	1:EX:107:GLU:H	2.18	0.52
1:Q2:289:ALA:HB2	1:Q2:299:LEU:CD2	2.40	0.52
1:I3:237:ILE:CG1	1:I3:300:ARG:HG3	2.37	0.52
1:R4:99:ALA:HB2	1:R4:112:ILE:HG21	1.90	0.52
1:A7:457:ILE:HG21	1:FB:80:LYS:HB3	1.91	0.52
1:e8:107:GLU:H	1:e8:107:GLU:CD	2.18	0.52
1:Z9:99:ALA:HB2	1:Z9:112:ILE:HG21	1.90	0.52
1:Z9:202:GLU:HB2	1:bS:268:ASN:ND2	2.23	0.52
1:dC:99:ALA:HB2	1:dC:112:ILE:HG21	1.90	0.52
1:JD:142:PHE:CE2	1:JD:145:LYS:HG3	2.44	0.52
1:WG:289:ALA:HB2	1:WG:299:LEU:CD2	2.40	0.52
1:BJ:14:ALA:HB1	1:BJ:495:MET:HG2	1.92	0.52
1:fK:107:GLU:H	1:fK:107:GLU:CD	2.18	0.52
1:XM:72:MET:HE1	1:XM:452:VAL:HG21	1.90	0.52
1:DN:107:GLU:CD	1:DN:107:GLU:H	2.18	0.52
1:DN:142:PHE:CE2	1:DN:145:LYS:HG3	2.44	0.52
1:MO:176:THR:HG22	1:MO:339:ARG:HH21	1.75	0.52
1:PU:107:GLU:CD	1:PU:107:GLU:H	2.18	0.52
1:PU:289:ALA:HB2	1:PU:299:LEU:CD2	2.40	0.52
1:cV:99:ALA:HB2	1:cV:112:ILE:HG21	1.90	0.52
1:aW:72:MET:HE1	1:aW:452:VAL:HG21	1.90	0.52
1:EX:142:PHE:CE2	1:EX:145:LYS:HG3	2.44	0.52
1:Q2:107:GLU:CD	1:Q2:107:GLU:H	2.18	0.52
1:R4:457:ILE:HG21	1:S5:80:LYS:HG3	1.92	0.52
1:A7:14:ALA:HB1	1:A7:495:MET:HG2	1.92	0.52
1:A7:239:THR:HG22	1:A7:298:ASN:CG	2.35	0.52
1:Z9:72:MET:HE1	1:Z9:452:VAL:HG21	1.90	0.52
1:Z9:353:VAL:CB	1:Z9:359:GLN:HG3	2.25	0.52
1:FB:142:PHE:CE2	1:FB:145:LYS:HG3	2.44	0.52
1:FB:239:THR:HG22	1:FB:298:ASN:CG	2.35	0.52
1:JD:289:ALA:CB	1:JD:299:LEU:HD23	2.40	0.52
1:KE:142:PHE:CE2	1:KE:145:LYS:HG3	2.44	0.52
1:WG:59:SER:HB3	1:VR:94:VAL:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:131:THR:HG23	1:UH:135:GLN:N	2.25	0.52
1:BJ:239:THR:HG22	1:BJ:298:ASN:CG	2.35	0.52
1:HL:29:LEU:HD13	1:EX:498:ALA:HB2	1.90	0.52
1:DN:18:SER:HB3	1:CT:3:PHE:HZ	1.73	0.52
1:DN:239:THR:HG22	1:DN:298:ASN:CG	2.35	0.52
1:GQ:69:ASN:HA	1:GQ:72:MET:HE3	1.92	0.52
1:VR:289:ALA:HB2	1:VR:299:LEU:CD2	2.40	0.52
1:VR:345:LEU:CD1	1:VR:428:GLU:HG2	2.40	0.52
1:VR:457:ILE:HG21	1:aW:80:LYS:HG3	1.92	0.52
1:VR:498:ALA:HB2	1:aW:29:LEU:HD13	1.91	0.52
1:CT:72:MET:HE1	1:CT:452:VAL:HG21	1.90	0.52
1:CT:142:PHE:CE2	1:CT:145:LYS:HG3	2.44	0.52
1:CT:239:THR:HG22	1:CT:298:ASN:CG	2.35	0.52
1:aW:309:ILE:CG2	1:aW:330:LEU:HD22	2.39	0.52
1:EX:239:THR:HG22	1:EX:298:ASN:CG	2.35	0.52
1:Y1:131:THR:HG23	1:Y1:135:GLN:N	2.25	0.52
1:Q2:29:LEU:HD13	1:MO:498:ALA:HB2	1.91	0.52
1:Q2:99:ALA:HB2	1:Q2:112:ILE:HG21	1.91	0.52
1:I3:69:ASN:HA	1:I3:72:MET:HE3	1.92	0.52
1:I3:239:THR:HG22	1:I3:298:ASN:CG	2.35	0.52
1:I3:289:ALA:CB	1:I3:299:LEU:HD23	2.40	0.52
1:R4:107:GLU:CD	1:R4:107:GLU:H	2.18	0.52
1:S5:131:THR:HG23	1:S5:135:GLN:N	2.25	0.52
1:g6:14:ALA:HB1	1:g6:495:MET:HG2	1.92	0.52
1:g6:72:MET:HE1	1:g6:452:VAL:HG21	1.90	0.52
1:g6:239:THR:HG22	1:g6:298:ASN:CG	2.35	0.52
1:A7:176:THR:HG22	1:A7:339:ARG:HH21	1.74	0.52
1:e8:14:ALA:HB1	1:e8:495:MET:HG2	1.92	0.52
1:Z9:457:ILE:HG21	1:bS:80:LYS:HG3	1.91	0.52
1:FB:345:LEU:CD1	1:FB:428:GLU:HG2	2.40	0.52
1:dC:72:MET:HE1	1:dC:452:VAL:HG21	1.90	0.52
1:dC:107:GLU:CD	1:dC:107:GLU:H	2.18	0.52
1:JD:309:ILE:CG2	1:JD:330:LEU:HD22	2.39	0.52
1:LF:142:PHE:CE2	1:LF:145:LYS:HG3	2.44	0.52
1:WG:107:GLU:H	1:WG:107:GLU:CD	2.18	0.52
1:WG:345:LEU:CD1	1:WG:428:GLU:HG2	2.40	0.52
1:BJ:72:MET:HE1	1:BJ:452:VAL:HG21	1.90	0.52
1:fK:14:ALA:HB1	1:fK:495:MET:HG2	1.92	0.52
1:fK:239:THR:HG22	1:fK:298:ASN:CG	2.35	0.52
1:HL:69:ASN:HA	1:HL:72:MET:HE3	1.92	0.52
1:HL:239:THR:HG22	1:HL:298:ASN:CG	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:289:ALA:CB	1:HL:299:LEU:HD23	2.40	0.52
1:XM:237:ILE:CG1	1:XM:300:ARG:HG3	2.37	0.52
1:TP:131:THR:HG23	1:TP:135:GLN:N	2.25	0.52
1:GQ:239:THR:HG22	1:GQ:298:ASN:CG	2.35	0.52
1:VR:107:GLU:CD	1:VR:107:GLU:H	2.18	0.52
1:VR:237:ILE:CG1	1:VR:300:ARG:HG3	2.37	0.52
1:bS:107:GLU:CD	1:bS:107:GLU:H	2.18	0.52
1:CT:14:ALA:HB1	1:CT:495:MET:HG2	1.92	0.52
1:aW:131:THR:HG23	1:aW:135:GLN:N	2.25	0.52
1:Y1:80:LYS:HG3	1:XM:457:ILE:HG21	1.92	0.52
1:Y1:99:ALA:HB2	1:Y1:112:ILE:HG21	1.90	0.52
1:R4:289:ALA:HB2	1:R4:299:LEU:CD2	2.40	0.52
1:S5:176:THR:HG22	1:S5:339:ARG:HH21	1.75	0.52
1:g6:289:ALA:HB2	1:g6:299:LEU:CD2	2.40	0.52
1:e8:239:THR:HG22	1:e8:298:ASN:CG	2.35	0.52
1:Z9:131:THR:HG23	1:Z9:135:GLN:N	2.25	0.52
1:Z9:309:ILE:CG2	1:Z9:330:LEU:HD22	2.39	0.52
1:dC:14:ALA:HB1	1:dC:495:MET:HG2	1.92	0.52
1:KE:289:ALA:CB	1:KE:299:LEU:HD23	2.40	0.52
1:BJ:176:THR:HG22	1:BJ:339:ARG:HH21	1.74	0.52
1:XM:107:GLU:CD	1:XM:107:GLU:H	2.18	0.52
1:XM:345:LEU:CD1	1:XM:428:GLU:HG2	2.40	0.52
1:DN:98:GLN:HB2	1:EX:63:GLN:CD	2.35	0.52
1:DN:345:LEU:CD1	1:DN:428:GLU:HG2	2.40	0.52
1:bS:72:MET:HE1	1:bS:452:VAL:HG21	1.90	0.52
1:CT:176:THR:HG22	1:CT:339:ARG:HH21	1.75	0.52
1:PU:99:ALA:HB2	1:PU:112:ILE:HG21	1.90	0.52
1:cV:72:MET:HE1	1:cV:452:VAL:HG21	1.90	0.52
1:cV:107:GLU:H	1:cV:107:GLU:CD	2.18	0.52
1:Y1:309:ILE:CG2	1:Y1:330:LEU:HD22	2.39	0.51
1:Q2:69:ASN:HA	1:Q2:72:MET:HE3	1.92	0.51
1:Q2:309:ILE:CG2	1:Q2:330:LEU:HD22	2.39	0.51
1:A7:72:MET:HE1	1:A7:452:VAL:HG21	1.90	0.51
1:A7:142:PHE:CE2	1:A7:145:LYS:HG3	2.44	0.51
1:e8:3:PHE:HZ	1:BJ:18:SER:HB3	1.73	0.51
1:e8:142:PHE:CE2	1:e8:145:LYS:HG3	2.44	0.51
1:e8:289:ALA:HB2	1:e8:299:LEU:CD2	2.40	0.51
1:Z9:14:ALA:HB1	1:Z9:495:MET:HG2	1.92	0.51
1:Z9:59:SER:HB3	1:aW:94:VAL:CG2	2.40	0.51
1:OA:289:ALA:CB	1:OA:299:LEU:HD23	2.40	0.51
1:OA:345:LEU:CD1	1:OA:428:GLU:HG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:239:THR:HG22	1:dC:298:ASN:CG	2.35	0.51
1:dC:289:ALA:CB	1:dC:299:LEU:HD23	2.40	0.51
1:KE:309:ILE:CG2	1:KE:330:LEU:HD22	2.39	0.51
1:LF:237:ILE:CG1	1:LF:300:ARG:HG3	2.37	0.51
1:LF:289:ALA:CB	1:LF:299:LEU:HD23	2.40	0.51
1:LF:309:ILE:CG2	1:LF:330:LEU:HD22	2.39	0.51
1:WG:237:ILE:CG1	1:WG:300:ARG:HG3	2.37	0.51
1:NI:345:LEU:CD1	1:NI:428:GLU:HG2	2.40	0.51
1:BJ:142:PHE:CE2	1:BJ:145:LYS:HG3	2.44	0.51
1:fK:289:ALA:HB2	1:fK:299:LEU:CD2	2.40	0.51
1:DN:471:ASP:OD1	1:EX:6:ASN:HB2	2.10	0.51
1:MO:345:LEU:CD1	1:MO:428:GLU:HG2	2.40	0.51
1:TP:176:THR:HG22	1:TP:339:ARG:HH21	1.74	0.51
1:GQ:289:ALA:CB	1:GQ:299:LEU:HD23	2.40	0.51
1:bS:14:ALA:HB1	1:bS:495:MET:HG2	1.92	0.51
1:bS:176:THR:HG22	1:bS:339:ARG:HH21	1.74	0.51
1:PU:69:ASN:HA	1:PU:72:MET:HE3	1.92	0.51
1:PU:309:ILE:CG2	1:PU:330:LEU:HD22	2.39	0.51
1:cV:176:THR:HG22	1:cV:339:ARG:HH21	1.74	0.51
1:cV:239:THR:HG22	1:cV:298:ASN:CG	2.35	0.51
1:cV:289:ALA:CB	1:cV:299:LEU:HD23	2.40	0.51
1:aW:107:GLU:CD	1:aW:107:GLU:H	2.18	0.51
1:aW:237:ILE:HD12	1:aW:399:TYR:CD1	2.46	0.51
1:EX:345:LEU:CD1	1:EX:428:GLU:HG2	2.40	0.51
1:Y1:14:ALA:HB1	1:Y1:495:MET:HG2	1.92	0.51
1:Y1:176:THR:HG22	1:Y1:339:ARG:HH21	1.74	0.51
1:Q2:444:VAL:O	1:Q2:448:MET:HG3	2.11	0.51
1:I3:107:GLU:H	1:I3:107:GLU:CD	2.18	0.51
1:R4:69:ASN:HA	1:R4:72:MET:HE3	1.92	0.51
1:R4:309:ILE:CG2	1:R4:330:LEU:HD22	2.39	0.51
1:S5:107:GLU:H	1:S5:107:GLU:CD	2.18	0.51
1:S5:345:LEU:CD1	1:S5:428:GLU:HG2	2.40	0.51
1:g6:345:LEU:CD1	1:g6:428:GLU:HG2	2.40	0.51
1:e8:289:ALA:CB	1:e8:299:LEU:HD23	2.40	0.51
1:Z9:107:GLU:H	1:Z9:107:GLU:CD	2.18	0.51
1:Z9:176:THR:HG22	1:Z9:339:ARG:HH21	1.74	0.51
1:Z9:237:ILE:HD12	1:Z9:399:TYR:CD1	2.46	0.51
1:OA:131:THR:HG23	1:OA:135:GLN:N	2.25	0.51
1:dC:176:THR:HG22	1:dC:339:ARG:HH21	1.75	0.51
1:dC:237:ILE:HD12	1:dC:399:TYR:CD1	2.46	0.51
1:JD:239:THR:HG22	1:JD:298:ASN:CG	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:239:THR:HG22	1:KE:298:ASN:CG	2.35	0.51
1:KE:289:ALA:HB2	1:KE:299:LEU:CD2	2.40	0.51
1:LF:239:THR:HG22	1:LF:298:ASN:CG	2.35	0.51
1:WG:69:ASN:HA	1:WG:72:MET:HE3	1.92	0.51
1:NI:131:THR:HG23	1:NI:135:GLN:N	2.25	0.51
1:NI:289:ALA:CB	1:NI:299:LEU:HD23	2.40	0.51
1:fK:72:MET:HE1	1:fK:452:VAL:HG21	1.90	0.51
1:fK:142:PHE:CE2	1:fK:145:LYS:HG3	2.44	0.51
1:fK:289:ALA:CB	1:fK:299:LEU:HD23	2.40	0.51
1:XM:69:ASN:HA	1:XM:72:MET:HE3	1.92	0.51
1:XM:99:ALA:HB2	1:XM:112:ILE:HG21	1.90	0.51
1:DN:273:ARG:NH1	1:EX:377:THR:HB	2.25	0.51
1:DN:289:ALA:CB	1:DN:299:LEU:HD23	2.40	0.51
1:MO:69:ASN:HA	1:MO:72:MET:HE3	1.92	0.51
1:MO:131:THR:HG23	1:MO:135:GLN:N	2.25	0.51
1:TP:345:LEU:CD1	1:TP:428:GLU:HG2	2.40	0.51
1:GQ:79:ASP:HA	1:GQ:82:MET:HE3	1.93	0.51
1:VR:69:ASN:HA	1:VR:72:MET:HE3	1.92	0.51
1:bS:239:THR:HG22	1:bS:298:ASN:CG	2.35	0.51
1:bS:289:ALA:HB2	1:bS:299:LEU:CD2	2.40	0.51
1:PU:444:VAL:O	1:PU:448:MET:HG3	2.11	0.51
1:cV:14:ALA:HB1	1:cV:495:MET:HG2	1.92	0.51
1:aW:14:ALA:HB1	1:aW:495:MET:HG2	1.92	0.51
1:aW:176:THR:HG22	1:aW:339:ARG:HH21	1.75	0.51
1:Y1:107:GLU:H	1:Y1:107:GLU:CD	2.18	0.51
1:Y1:237:ILE:HD12	1:Y1:399:TYR:CD1	2.46	0.51
1:Y1:353:VAL:CB	1:Y1:359:GLN:HG3	2.25	0.51
1:I3:491:GLY:O	1:I3:495:MET:HG3	2.11	0.51
1:S5:99:ALA:HB2	1:S5:112:ILE:HG21	1.90	0.51
1:g6:142:PHE:CE2	1:g6:145:LYS:HG3	2.44	0.51
1:g6:289:ALA:CB	1:g6:299:LEU:HD23	2.40	0.51
1:A7:79:ASP:HA	1:A7:82:MET:HE3	1.93	0.51
1:OA:69:ASN:HA	1:OA:72:MET:HE3	1.92	0.51
1:dC:444:VAL:O	1:dC:448:MET:HG3	2.11	0.51
1:KE:237:ILE:CG1	1:KE:300:ARG:HG3	2.37	0.51
1:UH:309:ILE:HG23	1:UH:330:LEU:HD22	1.93	0.51
1:NI:69:ASN:HA	1:NI:72:MET:HE3	1.92	0.51
1:BJ:79:ASP:HA	1:BJ:82:MET:HE3	1.93	0.51
1:BJ:309:ILE:HG23	1:BJ:330:LEU:HD22	1.93	0.51
1:fK:29:LEU:HD13	1:cV:498:ALA:HB2	1.92	0.51
1:fK:345:LEU:CD1	1:fK:428:GLU:HG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:289:ALA:HB2	1:HL:299:LEU:CD2	2.40	0.51
1:MO:289:ALA:CB	1:MO:299:LEU:HD23	2.40	0.51
1:VR:99:ALA:HB2	1:VR:112:ILE:HG21	1.90	0.51
1:CT:309:ILE:CG2	1:CT:330:LEU:HD22	2.39	0.51
1:cV:237:ILE:HD12	1:cV:399:TYR:CD1	2.46	0.51
1:cV:289:ALA:HB2	1:cV:299:LEU:CD2	2.40	0.51
1:cV:444:VAL:O	1:cV:448:MET:HG3	2.11	0.51
1:EX:289:ALA:CB	1:EX:299:LEU:HD23	2.40	0.51
1:Y1:18:SER:CB	1:XM:3:PHE:HZ	2.23	0.51
1:Y1:289:ALA:HB2	1:Y1:299:LEU:CD2	2.40	0.51
1:I3:289:ALA:HB2	1:I3:299:LEU:CD2	2.40	0.51
1:I3:309:ILE:HG23	1:I3:330:LEU:HD22	1.93	0.51
1:R4:444:VAL:O	1:R4:448:MET:HG3	2.11	0.51
1:A7:289:ALA:CB	1:A7:299:LEU:HD23	2.40	0.51
1:A7:309:ILE:HG23	1:A7:330:LEU:HD22	1.93	0.51
1:e8:72:MET:HE1	1:e8:452:VAL:HG21	1.90	0.51
1:e8:131:THR:HG23	1:e8:135:GLN:N	2.25	0.51
1:e8:345:LEU:CD1	1:e8:428:GLU:HG2	2.40	0.51
1:Z9:82:MET:HB3	1:Z9:438:ARG:HG3	1.93	0.51
1:Z9:377:THR:HB	1:aW:273:ARG:NH1	2.25	0.51
1:OA:491:GLY:O	1:OA:495:MET:HG3	2.11	0.51
1:FB:14:ALA:HB1	1:FB:495:MET:HG2	1.92	0.51
1:FB:289:ALA:CB	1:FB:299:LEU:HD23	2.40	0.51
1:dC:345:LEU:CD1	1:dC:428:GLU:HG2	2.40	0.51
1:JD:289:ALA:HB2	1:JD:299:LEU:CD2	2.40	0.51
1:JD:444:VAL:O	1:JD:448:MET:HG3	2.11	0.51
1:LF:289:ALA:HB2	1:LF:299:LEU:CD2	2.40	0.51
1:WG:99:ALA:HB2	1:WG:112:ILE:HG21	1.90	0.51
1:WG:237:ILE:HD12	1:WG:399:TYR:CD1	2.46	0.51
1:UH:176:THR:HG22	1:UH:339:ARG:HH21	1.75	0.51
1:BJ:289:ALA:CB	1:BJ:299:LEU:HD23	2.40	0.51
1:HL:79:ASP:HA	1:HL:82:MET:HE3	1.93	0.51
1:HL:107:GLU:CD	1:HL:107:GLU:H	2.18	0.51
1:TP:99:ALA:HB2	1:TP:112:ILE:HG21	1.90	0.51
1:TP:107:GLU:H	1:TP:107:GLU:CD	2.18	0.51
1:TP:309:ILE:HG23	1:TP:330:LEU:HD22	1.93	0.51
1:GQ:107:GLU:H	1:GQ:107:GLU:CD	2.18	0.51
1:GQ:142:PHE:CE2	1:GQ:145:LYS:HG3	2.44	0.51
1:GQ:289:ALA:HB2	1:GQ:299:LEU:CD2	2.40	0.51
1:VR:444:VAL:O	1:VR:448:MET:HG3	2.11	0.51
1:VR:461:ASN:CB	1:aW:77:VAL:HG22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:237:ILE:HD12	1:bS:399:TYR:CD1	2.46	0.51
1:bS:444:VAL:O	1:bS:448:MET:HG3	2.11	0.51
1:CT:69:ASN:HA	1:CT:72:MET:HE3	1.92	0.51
1:CT:79:ASP:HA	1:CT:82:MET:HE3	1.93	0.51
1:CT:131:THR:HG23	1:CT:135:GLN:N	2.25	0.51
1:PU:125:ASN:O	1:PU:129:THR:HG23	2.11	0.51
1:aW:239:THR:HG22	1:aW:298:ASN:CG	2.35	0.51
1:EX:14:ALA:HB1	1:EX:495:MET:HG2	1.92	0.51
1:Y1:82:MET:HB3	1:Y1:438:ARG:HG3	1.93	0.51
1:Q2:125:ASN:O	1:Q2:129:THR:HG23	2.11	0.51
1:Q2:202:GLU:HB2	1:TP:268:ASN:ND2	2.24	0.51
1:Q2:309:ILE:HG23	1:Q2:330:LEU:HD22	1.93	0.51
1:I3:79:ASP:HA	1:I3:82:MET:HE3	1.93	0.51
1:I3:133:ASN:OD1	1:I3:133:ASN:O	2.29	0.51
1:I3:345:LEU:CD1	1:I3:428:GLU:HG2	2.40	0.51
1:R4:3:PHE:HZ	1:S5:18:SER:CB	2.24	0.51
1:S5:309:ILE:HG23	1:S5:330:LEU:HD22	1.93	0.51
1:g6:94:VAL:CG2	1:fK:59:SER:HB3	2.40	0.51
1:g6:131:THR:HG23	1:g6:135:GLN:N	2.25	0.51
1:A7:3:PHE:HZ	1:FB:18:SER:CB	2.24	0.51
1:A7:257:ILE:HD12	1:A7:257:ILE:N	2.26	0.51
1:A7:309:ILE:CG2	1:A7:330:LEU:HD22	2.40	0.51
1:Z9:239:THR:HG22	1:Z9:298:ASN:CG	2.35	0.51
1:OA:239:THR:HG22	1:OA:298:ASN:CG	2.35	0.51
1:OA:471:ASP:OD1	1:NI:6:ASN:HB2	2.11	0.51
1:FB:82:MET:HB3	1:FB:438:ARG:HG3	1.93	0.51
1:dC:192:GLN:HG2	1:cV:258:HIS:HB2	1.93	0.51
1:dC:289:ALA:HB2	1:dC:299:LEU:CD2	2.40	0.51
1:KE:444:VAL:O	1:KE:448:MET:HG3	2.11	0.51
1:LF:309:ILE:HG23	1:LF:330:LEU:HD22	1.93	0.51
1:LF:444:VAL:O	1:LF:448:MET:HG3	2.10	0.51
1:WG:444:VAL:O	1:WG:448:MET:HG3	2.11	0.51
1:UH:99:ALA:HB2	1:UH:112:ILE:HG21	1.90	0.51
1:UH:345:LEU:CD1	1:UH:428:GLU:HG2	2.40	0.51
1:BJ:63:GLN:CD	1:CT:98:GLN:HB2	2.36	0.51
1:BJ:69:ASN:HA	1:BJ:72:MET:HE3	1.92	0.51
1:BJ:257:ILE:HD12	1:BJ:257:ILE:N	2.26	0.51
1:BJ:309:ILE:CG2	1:BJ:330:LEU:HD22	2.39	0.51
1:HL:77:VAL:HG22	1:EX:461:ASN:CB	2.41	0.51
1:HL:94:VAL:CG2	1:GQ:59:SER:HB3	2.39	0.51
1:HL:133:ASN:O	1:HL:133:ASN:OD1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:142:PHE:CE2	1:HL:145:LYS:HG3	2.44	0.51
1:HL:309:ILE:HG23	1:HL:330:LEU:HD22	1.93	0.51
1:HL:491:GLY:O	1:HL:495:MET:HG3	2.11	0.51
1:XM:14:ALA:HB1	1:XM:495:MET:HG2	1.92	0.51
1:DN:14:ALA:HB1	1:DN:495:MET:HG2	1.92	0.51
1:DN:125:ASN:O	1:DN:129:THR:HG23	2.11	0.51
1:MO:239:THR:HG22	1:MO:298:ASN:CG	2.35	0.51
1:MO:257:ILE:HD12	1:MO:257:ILE:N	2.26	0.51
1:VR:14:ALA:HB1	1:VR:495:MET:HG2	1.92	0.51
1:VR:237:ILE:HD12	1:VR:399:TYR:CD1	2.46	0.51
1:CT:289:ALA:CB	1:CT:299:LEU:HD23	2.40	0.51
1:CT:309:ILE:HG23	1:CT:330:LEU:HD22	1.93	0.51
1:PU:309:ILE:HG23	1:PU:330:LEU:HD22	1.93	0.51
1:aW:257:ILE:HD12	1:aW:257:ILE:N	2.26	0.51
1:Y1:239:THR:HG22	1:Y1:298:ASN:CG	2.35	0.51
1:I3:142:PHE:CE2	1:I3:145:LYS:HG3	2.44	0.51
1:R4:125:ASN:O	1:R4:129:THR:HG23	2.11	0.51
1:R4:309:ILE:HG23	1:R4:330:LEU:HD22	1.93	0.51
1:S5:69:ASN:HA	1:S5:72:MET:HE3	1.92	0.51
1:S5:491:GLY:O	1:S5:495:MET:HG3	2.11	0.51
1:S5:498:ALA:HB2	1:WG:29:LEU:HD13	1.92	0.51
1:g6:82:MET:HB3	1:g6:438:ARG:HG3	1.93	0.51
1:g6:491:GLY:O	1:g6:495:MET:HG3	2.11	0.51
1:A7:69:ASN:HA	1:A7:72:MET:HE3	1.92	0.51
1:e8:82:MET:HB3	1:e8:438:ARG:HG3	1.93	0.51
1:e8:309:ILE:HG23	1:e8:330:LEU:HD22	1.93	0.51
1:e8:444:VAL:O	1:e8:448:MET:HG3	2.11	0.51
1:Z9:289:ALA:HB2	1:Z9:299:LEU:CD2	2.40	0.51
1:OA:107:GLU:H	1:OA:107:GLU:CD	2.18	0.51
1:OA:125:ASN:O	1:OA:129:THR:HG23	2.11	0.51
1:FB:125:ASN:O	1:FB:129:THR:HG23	2.11	0.51
1:JD:69:ASN:HA	1:JD:72:MET:HE3	1.92	0.51
1:JD:125:ASN:O	1:JD:129:THR:HG23	2.11	0.51
1:JD:237:ILE:CG1	1:JD:300:ARG:HG3	2.37	0.51
1:JD:309:ILE:HG23	1:JD:330:LEU:HD22	1.93	0.51
1:KE:309:ILE:HG23	1:KE:330:LEU:HD22	1.93	0.51
1:WG:14:ALA:HB1	1:WG:495:MET:HG2	1.92	0.51
1:WG:131:THR:HG23	1:WG:135:GLN:N	2.25	0.51
1:WG:309:ILE:HG23	1:WG:330:LEU:HD22	1.93	0.51
1:UH:82:MET:HB3	1:UH:438:ARG:HG3	1.93	0.51
1:UH:107:GLU:H	1:UH:107:GLU:CD	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:239:THR:HG22	1:NI:298:ASN:CG	2.35	0.51
1:NI:257:ILE:HD12	1:NI:257:ILE:N	2.26	0.51
1:NI:491:GLY:O	1:NI:495:MET:HG3	2.11	0.51
1:BJ:131:THR:HG23	1:BJ:135:GLN:N	2.25	0.51
1:BJ:498:ALA:HB2	1:EX:29:LEU:HD13	1.93	0.51
1:fK:3:PHE:HZ	1:CT:18:SER:HB3	1.74	0.51
1:fK:82:MET:HB3	1:fK:438:ARG:HG3	1.93	0.51
1:fK:131:THR:HG23	1:fK:135:GLN:N	2.25	0.51
1:fK:309:ILE:HG23	1:fK:330:LEU:HD22	1.93	0.51
1:HL:257:ILE:HD12	1:HL:257:ILE:N	2.26	0.51
1:HL:345:LEU:CD1	1:HL:428:GLU:HG2	2.40	0.51
1:XM:237:ILE:HD12	1:XM:399:TYR:CD1	2.46	0.51
1:XM:309:ILE:HG23	1:XM:330:LEU:HD22	1.93	0.51
1:XM:444:VAL:O	1:XM:448:MET:HG3	2.11	0.51
1:MO:309:ILE:HG23	1:MO:330:LEU:HD22	1.93	0.51
1:MO:491:GLY:O	1:MO:495:MET:HG3	2.11	0.51
1:TP:491:GLY:O	1:TP:495:MET:HG3	2.11	0.51
1:GQ:133:ASN:O	1:GQ:133:ASN:OD1	2.29	0.51
1:GQ:309:ILE:HG23	1:GQ:330:LEU:HD22	1.93	0.51
1:GQ:491:GLY:O	1:GQ:495:MET:HG3	2.11	0.51
1:VR:131:THR:HG23	1:VR:135:GLN:N	2.25	0.51
1:VR:309:ILE:HG23	1:VR:330:LEU:HD22	1.93	0.51
1:cV:79:ASP:HA	1:cV:82:MET:HE3	1.93	0.51
1:cV:345:LEU:CD1	1:cV:428:GLU:HG2	2.40	0.51
1:aW:82:MET:HB3	1:aW:438:ARG:HG3	1.93	0.51
1:EX:82:MET:HB3	1:EX:438:ARG:HG3	1.93	0.51
1:Y1:257:ILE:N	1:Y1:257:ILE:HD12	2.26	0.51
1:I3:82:MET:HB3	1:I3:438:ARG:HG3	1.93	0.51
1:I3:444:VAL:O	1:I3:448:MET:HG3	2.11	0.51
1:S5:82:MET:HB3	1:S5:438:ARG:HG3	1.93	0.51
1:g6:273:ARG:NH1	1:fK:377:THR:HB	2.25	0.51
1:g6:309:ILE:HG23	1:g6:330:LEU:HD22	1.93	0.51
1:A7:107:GLU:H	1:A7:107:GLU:CD	2.18	0.51
1:A7:131:THR:HG23	1:A7:135:GLN:N	2.25	0.51
1:A7:133:ASN:O	1:A7:133:ASN:OD1	2.29	0.51
1:e8:125:ASN:O	1:e8:129:THR:HG23	2.11	0.51
1:e8:192:GLN:HG2	1:fK:258:HIS:HB2	1.93	0.51
1:e8:491:GLY:O	1:e8:495:MET:HG3	2.11	0.51
1:Z9:257:ILE:HD12	1:Z9:257:ILE:N	2.26	0.51
1:OA:82:MET:HB3	1:OA:438:ARG:HG3	1.93	0.51
1:OA:257:ILE:N	1:OA:257:ILE:HD12	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:289:ALA:HB2	1:OA:299:LEU:CD2	2.40	0.51
1:FB:309:ILE:HG23	1:FB:330:LEU:HD22	1.93	0.51
1:FB:491:GLY:O	1:FB:495:MET:HG3	2.11	0.51
1:dC:79:ASP:HA	1:dC:82:MET:HE3	1.93	0.51
1:dC:257:ILE:HD12	1:dC:257:ILE:N	2.26	0.51
1:KE:80:LYS:HG3	1:GQ:457:ILE:HG21	1.92	0.51
1:KE:345:LEU:CD1	1:KE:428:GLU:HG2	2.40	0.51
1:LF:82:MET:HB3	1:LF:438:ARG:HG3	1.93	0.51
1:WG:125:ASN:O	1:WG:129:THR:HG23	2.11	0.51
1:UH:491:GLY:O	1:UH:495:MET:HG3	2.11	0.51
1:NI:79:ASP:HA	1:NI:82:MET:HE3	1.93	0.51
1:NI:107:GLU:CD	1:NI:107:GLU:H	2.18	0.51
1:NI:125:ASN:O	1:NI:129:THR:HG23	2.11	0.51
1:BJ:133:ASN:O	1:BJ:133:ASN:OD1	2.29	0.51
1:fK:444:VAL:O	1:fK:448:MET:HG3	2.11	0.51
1:fK:491:GLY:O	1:fK:495:MET:HG3	2.11	0.51
1:HL:273:ARG:NH1	1:GQ:377:THR:HB	2.26	0.51
1:HL:444:VAL:O	1:HL:448:MET:HG3	2.11	0.51
1:XM:131:THR:HG23	1:XM:135:GLN:N	2.25	0.51
1:XM:239:THR:HG22	1:XM:298:ASN:CG	2.35	0.51
1:DN:82:MET:HB3	1:DN:438:ARG:HG3	1.93	0.51
1:DN:309:ILE:HG23	1:DN:330:LEU:HD22	1.93	0.51
1:MO:14:ALA:HB1	1:MO:495:MET:HG2	1.92	0.51
1:MO:79:ASP:HA	1:MO:82:MET:HE3	1.93	0.51
1:MO:107:GLU:CD	1:MO:107:GLU:H	2.18	0.51
1:MO:125:ASN:O	1:MO:129:THR:HG23	2.11	0.51
1:TP:82:MET:HB3	1:TP:438:ARG:HG3	1.93	0.51
1:GQ:257:ILE:N	1:GQ:257:ILE:HD12	2.26	0.51
1:VR:125:ASN:O	1:VR:129:THR:HG23	2.11	0.51
1:bS:79:ASP:HA	1:bS:82:MET:HE3	1.93	0.51
1:bS:345:LEU:CD1	1:bS:428:GLU:HG2	2.40	0.51
1:bS:491:GLY:O	1:bS:495:MET:HG3	2.11	0.51
1:CT:133:ASN:OD1	1:CT:133:ASN:O	2.29	0.51
1:CT:257:ILE:HD12	1:CT:257:ILE:N	2.26	0.51
1:PU:289:ALA:CB	1:PU:299:LEU:HD23	2.40	0.51
1:aW:289:ALA:HB2	1:aW:299:LEU:CD2	2.40	0.51
1:EX:125:ASN:O	1:EX:129:THR:HG23	2.11	0.51
1:Q2:131:THR:HG23	1:Q2:135:GLN:N	2.25	0.51
1:Q2:289:ALA:CB	1:Q2:299:LEU:HD23	2.40	0.51
1:I3:257:ILE:N	1:I3:257:ILE:HD12	2.26	0.51
1:S5:59:SER:HB3	1:TP:94:VAL:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:125:ASN:O	1:g6:129:THR:HG23	2.11	0.51
1:g6:237:ILE:HD12	1:g6:399:TYR:CD1	2.46	0.51
1:g6:444:VAL:O	1:g6:448:MET:HG3	2.11	0.51
1:A7:192:GLN:HG2	1:BJ:258:HIS:HB2	1.93	0.51
1:A7:289:ALA:HB2	1:A7:299:LEU:CD2	2.40	0.51
1:A7:345:LEU:CD1	1:A7:428:GLU:HG2	2.40	0.51
1:e8:176:THR:HG22	1:e8:339:ARG:HH21	1.74	0.51
1:Z9:18:SER:HB3	1:WG:3:PHE:HZ	1.75	0.51
1:Z9:444:VAL:O	1:Z9:448:MET:HG3	2.11	0.51
1:OA:79:ASP:HA	1:OA:82:MET:HE3	1.93	0.51
1:FB:237:ILE:HD12	1:FB:399:TYR:CD1	2.46	0.51
1:dC:69:ASN:HA	1:dC:72:MET:HE3	1.92	0.51
1:JD:94:VAL:CG2	1:KE:59:SER:HB3	2.41	0.51
1:JD:342:LEU:HD12	1:JD:350:ILE:HG21	1.93	0.51
1:KE:69:ASN:HA	1:KE:72:MET:HE3	1.92	0.51
1:KE:125:ASN:O	1:KE:129:THR:HG23	2.11	0.51
1:LF:125:ASN:O	1:LF:129:THR:HG23	2.11	0.51
1:LF:131:THR:HG23	1:LF:135:GLN:N	2.25	0.51
1:LF:345:LEU:CD1	1:LF:428:GLU:HG2	2.40	0.51
1:LF:491:GLY:O	1:LF:495:MET:HG3	2.11	0.51
1:WG:239:THR:HG22	1:WG:298:ASN:CG	2.35	0.51
1:NI:14:ALA:HB1	1:NI:495:MET:HG2	1.92	0.51
1:NI:309:ILE:HG23	1:NI:330:LEU:HD22	1.93	0.51
1:BJ:107:GLU:CD	1:BJ:107:GLU:H	2.18	0.51
1:BJ:289:ALA:HB2	1:BJ:299:LEU:CD2	2.40	0.51
1:XM:125:ASN:O	1:XM:129:THR:HG23	2.11	0.51
1:DN:237:ILE:HD12	1:DN:399:TYR:CD1	2.46	0.51
1:DN:444:VAL:O	1:DN:448:MET:HG3	2.11	0.51
1:MO:444:VAL:O	1:MO:448:MET:HG3	2.11	0.51
1:TP:239:THR:HG22	1:TP:298:ASN:CG	2.35	0.51
1:GQ:125:ASN:O	1:GQ:129:THR:HG23	2.11	0.51
1:GQ:444:VAL:O	1:GQ:448:MET:HG3	2.11	0.51
1:VR:239:THR:HG22	1:VR:298:ASN:CG	2.35	0.51
1:VR:257:ILE:N	1:VR:257:ILE:HD12	2.26	0.51
1:bS:94:VAL:CG2	1:cV:59:SER:HB3	2.41	0.51
1:CT:237:ILE:HD12	1:CT:399:TYR:CD1	2.46	0.51
1:PU:131:THR:HG23	1:PU:135:GLN:N	2.25	0.51
1:PU:239:THR:HG22	1:PU:298:ASN:CG	2.35	0.51
1:PU:345:LEU:CD1	1:PU:428:GLU:HG2	2.40	0.51
1:cV:133:ASN:O	1:cV:133:ASN:OD1	2.29	0.51
1:aW:444:VAL:O	1:aW:448:MET:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:309:ILE:HG23	1:EX:330:LEU:HD22	1.93	0.51
1:EX:491:GLY:O	1:EX:495:MET:HG3	2.11	0.51
1:Y1:125:ASN:O	1:Y1:129:THR:HG23	2.11	0.51
1:Y1:133:ASN:O	1:Y1:133:ASN:OD1	2.29	0.51
1:Y1:248:SER:HB3	1:Y1:263:ALA:HA	1.93	0.51
1:Q2:237:ILE:HD12	1:Q2:399:TYR:CD1	2.46	0.51
1:Q2:239:THR:HG22	1:Q2:298:ASN:CG	2.35	0.51
1:I3:131:THR:HG23	1:I3:135:GLN:N	2.25	0.51
1:R4:14:ALA:HB1	1:R4:495:MET:HG2	1.92	0.51
1:R4:82:MET:HB3	1:R4:438:ARG:HG3	1.93	0.51
1:R4:131:THR:HG23	1:R4:135:GLN:N	2.25	0.51
1:R4:237:ILE:HD12	1:R4:399:TYR:CD1	2.46	0.51
1:R4:239:THR:HG22	1:R4:298:ASN:CG	2.35	0.51
1:R4:289:ALA:CB	1:R4:299:LEU:HD23	2.40	0.51
1:S5:239:THR:HG22	1:S5:298:ASN:CG	2.35	0.51
1:S5:248:SER:HB3	1:S5:263:ALA:HA	1.93	0.51
1:A7:237:ILE:HD12	1:A7:399:TYR:CD1	2.46	0.51
1:e8:237:ILE:HD12	1:e8:399:TYR:CD1	2.46	0.51
1:Z9:133:ASN:O	1:Z9:133:ASN:OD1	2.29	0.51
1:OA:14:ALA:HB1	1:OA:495:MET:HG2	1.92	0.51
1:OA:98:GLN:HB2	1:NI:63:GLN:CD	2.36	0.51
1:OA:309:ILE:HG23	1:OA:330:LEU:HD22	1.93	0.51
1:dC:491:GLY:O	1:dC:495:MET:HG3	2.11	0.51
1:JD:131:THR:HG23	1:JD:135:GLN:N	2.25	0.51
1:KE:131:THR:HG23	1:KE:135:GLN:N	2.25	0.51
1:KE:273:ARG:NH1	1:LF:377:THR:HB	2.26	0.51
1:KE:491:GLY:O	1:KE:495:MET:HG3	2.11	0.51
1:LF:69:ASN:HA	1:LF:72:MET:HE3	1.92	0.51
1:WG:257:ILE:HD12	1:WG:257:ILE:N	2.26	0.51
1:WG:491:GLY:O	1:WG:495:MET:HG3	2.11	0.51
1:UH:239:THR:HG22	1:UH:298:ASN:CG	2.35	0.51
1:NI:289:ALA:HB2	1:NI:299:LEU:CD2	2.40	0.51
1:BJ:237:ILE:HD12	1:BJ:399:TYR:CD1	2.46	0.51
1:BJ:491:GLY:O	1:BJ:495:MET:HG3	2.11	0.51
1:fK:125:ASN:O	1:fK:129:THR:HG23	2.11	0.51
1:fK:131:THR:HA	1:fK:135:GLN:O	2.11	0.51
1:fK:237:ILE:HD12	1:fK:399:TYR:CD1	2.46	0.51
1:fK:457:ILE:HG21	1:CT:80:LYS:HG3	1.91	0.51
1:HL:82:MET:HB3	1:HL:438:ARG:HG3	1.93	0.51
1:HL:125:ASN:O	1:HL:129:THR:HG23	2.11	0.51
1:HL:131:THR:HG23	1:HL:135:GLN:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:82:MET:HB3	1:XM:438:ARG:HG3	1.93	0.51
1:XM:491:GLY:O	1:XM:495:MET:HG3	2.11	0.51
1:DN:491:GLY:O	1:DN:495:MET:HG3	2.11	0.51
1:TP:3:PHE:HZ	1:VR:18:SER:HB3	1.75	0.51
1:TP:69:ASN:HA	1:TP:72:MET:HE3	1.92	0.51
1:GQ:82:MET:HB3	1:GQ:438:ARG:HG3	1.93	0.51
1:GQ:131:THR:HG23	1:GQ:135:GLN:N	2.25	0.51
1:GQ:345:LEU:CD1	1:GQ:428:GLU:HG2	2.40	0.51
1:bS:69:ASN:HA	1:bS:72:MET:HE3	1.92	0.51
1:bS:133:ASN:OD1	1:bS:133:ASN:O	2.29	0.51
1:bS:309:ILE:HG23	1:bS:330:LEU:HD22	1.93	0.51
1:CT:289:ALA:HB2	1:CT:299:LEU:CD2	2.40	0.51
1:CT:491:GLY:O	1:CT:495:MET:HG3	2.11	0.51
1:PU:237:ILE:HD12	1:PU:399:TYR:CD1	2.46	0.51
1:cV:69:ASN:HA	1:cV:72:MET:HE3	1.92	0.51
1:cV:257:ILE:N	1:cV:257:ILE:HD12	2.26	0.51
1:cV:491:GLY:O	1:cV:495:MET:HG3	2.11	0.51
1:aW:345:LEU:CD1	1:aW:428:GLU:HG2	2.40	0.51
1:EX:237:ILE:HD12	1:EX:399:TYR:CD1	2.46	0.51
1:EX:444:VAL:O	1:EX:448:MET:HG3	2.11	0.51
1:Y1:444:VAL:O	1:Y1:448:MET:HG3	2.11	0.51
1:Q2:82:MET:HB3	1:Q2:438:ARG:HG3	1.93	0.51
1:S5:353:VAL:CB	1:S5:359:GLN:HG3	2.25	0.51
1:S5:444:VAL:O	1:S5:448:MET:HG3	2.11	0.51
1:g6:131:THR:HA	1:g6:135:GLN:O	2.11	0.51
1:A7:491:GLY:O	1:A7:495:MET:HG3	2.11	0.51
1:Z9:29:LEU:HD13	1:WG:498:ALA:HB2	1.92	0.51
1:Z9:125:ASN:O	1:Z9:129:THR:HG23	2.11	0.51
1:OA:237:ILE:HD12	1:OA:399:TYR:CD1	2.46	0.51
1:FB:444:VAL:O	1:FB:448:MET:HG3	2.11	0.51
1:dC:133:ASN:O	1:dC:133:ASN:OD1	2.29	0.51
1:JD:14:ALA:HB1	1:JD:495:MET:HG2	1.92	0.51
1:JD:491:GLY:O	1:JD:495:MET:HG3	2.11	0.51
1:KE:258:HIS:HB2	1:LF:192:GLN:HG2	1.93	0.51
1:KE:342:LEU:HD12	1:KE:350:ILE:HG21	1.93	0.51
1:LF:342:LEU:HD12	1:LF:350:ILE:HG21	1.93	0.51
1:UH:80:LYS:HG3	1:PU:457:ILE:HG21	1.93	0.51
1:UH:248:SER:HB3	1:UH:263:ALA:HA	1.93	0.51
1:UH:289:ALA:CB	1:UH:299:LEU:HD23	2.40	0.51
1:NI:82:MET:HB3	1:NI:438:ARG:HG3	1.93	0.51
1:NI:237:ILE:HD12	1:NI:399:TYR:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:444:VAL:O	1:NI:448:MET:HG3	2.11	0.51
1:BJ:345:LEU:CD1	1:BJ:428:GLU:HG2	2.40	0.51
1:XM:257:ILE:HD12	1:XM:257:ILE:N	2.26	0.51
1:MO:237:ILE:CG1	1:MO:300:ARG:HG3	2.37	0.51
1:MO:237:ILE:HD12	1:MO:399:TYR:CD1	2.46	0.51
1:MO:289:ALA:HB2	1:MO:299:LEU:CD2	2.40	0.51
1:MO:342:LEU:HD12	1:MO:350:ILE:HG21	1.93	0.51
1:TP:248:SER:HB3	1:TP:263:ALA:HA	1.93	0.51
1:TP:353:VAL:CB	1:TP:359:GLN:HG3	2.25	0.51
1:bS:131:THR:HA	1:bS:135:GLN:O	2.11	0.51
1:bS:257:ILE:HD12	1:bS:257:ILE:N	2.26	0.51
1:PU:257:ILE:HD12	1:PU:257:ILE:N	2.26	0.51
1:cV:309:ILE:HG23	1:cV:330:LEU:HD22	1.93	0.51
1:Y1:309:ILE:HG23	1:Y1:330:LEU:HD22	1.93	0.50
1:Q2:345:LEU:CD1	1:Q2:428:GLU:HG2	2.40	0.50
1:Q2:491:GLY:O	1:Q2:495:MET:HG3	2.11	0.50
1:I3:14:ALA:HB1	1:I3:495:MET:HG2	1.92	0.50
1:I3:125:ASN:O	1:I3:129:THR:HG23	2.11	0.50
1:I3:273:ARG:NH1	1:HL:377:THR:HB	2.26	0.50
1:S5:125:ASN:O	1:S5:129:THR:HG23	2.11	0.50
1:S5:257:ILE:HD12	1:S5:257:ILE:N	2.26	0.50
1:g6:133:ASN:O	1:g6:133:ASN:OD1	2.29	0.50
1:A7:131:THR:HA	1:A7:135:GLN:O	2.11	0.50
1:e8:131:THR:HA	1:e8:135:GLN:O	2.11	0.50
1:e8:133:ASN:O	1:e8:133:ASN:OD1	2.29	0.50
1:Z9:80:LYS:HG3	1:WG:457:ILE:HG21	1.93	0.50
1:Z9:248:SER:HB3	1:Z9:263:ALA:HA	1.93	0.50
1:Z9:309:ILE:HG23	1:Z9:330:LEU:HD22	1.93	0.50
1:OA:18:SER:HB3	1:JD:3:PHE:HZ	1.75	0.50
1:OA:342:LEU:HD12	1:OA:350:ILE:HG21	1.93	0.50
1:OA:444:VAL:O	1:OA:448:MET:HG3	2.11	0.50
1:FB:419:GLY:O	1:FB:423:VAL:HG23	2.12	0.50
1:JD:82:MET:HB3	1:JD:438:ARG:HG3	1.93	0.50
1:JD:257:ILE:HD12	1:JD:257:ILE:N	2.26	0.50
1:JD:345:LEU:CD1	1:JD:428:GLU:HG2	2.40	0.50
1:KE:82:MET:HB3	1:KE:438:ARG:HG3	1.93	0.50
1:WG:82:MET:HB3	1:WG:438:ARG:HG3	1.93	0.50
1:UH:69:ASN:HA	1:UH:72:MET:HE3	1.92	0.50
1:UH:94:VAL:CG2	1:TP:59:SER:HB3	2.42	0.50
1:UH:353:VAL:CB	1:UH:359:GLN:HG3	2.25	0.50
1:NI:133:ASN:O	1:NI:133:ASN:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:342:LEU:HD12	1:NI:350:ILE:HG21	1.93	0.50
1:BJ:131:THR:HA	1:BJ:135:GLN:O	2.11	0.50
1:fK:133:ASN:O	1:fK:133:ASN:OD1	2.29	0.50
1:HL:258:HIS:HB2	1:GQ:192:GLN:HG2	1.93	0.50
1:MO:82:MET:HB3	1:MO:438:ARG:HG3	1.93	0.50
1:MO:133:ASN:O	1:MO:133:ASN:OD1	2.29	0.50
1:CT:107:GLU:CD	1:CT:107:GLU:H	2.18	0.50
1:CT:131:THR:HA	1:CT:135:GLN:O	2.11	0.50
1:CT:345:LEU:CD1	1:CT:428:GLU:HG2	2.40	0.50
1:PU:491:GLY:O	1:PU:495:MET:HG3	2.11	0.50
1:aW:133:ASN:OD1	1:aW:133:ASN:O	2.29	0.50
1:aW:248:SER:HB3	1:aW:263:ALA:HA	1.93	0.50
1:aW:309:ILE:HG23	1:aW:330:LEU:HD22	1.93	0.50
1:Y1:192:GLN:HG2	1:Z9:258:HIS:HB2	1.93	0.50
1:Q2:14:ALA:HB1	1:Q2:495:MET:HG2	1.92	0.50
1:Q2:258:HIS:HB2	1:R4:192:GLN:HG2	1.94	0.50
1:R4:345:LEU:CD1	1:R4:428:GLU:HG2	2.40	0.50
1:R4:491:GLY:O	1:R4:495:MET:HG3	2.11	0.50
1:g6:176:THR:HG22	1:g6:339:ARG:HH21	1.75	0.50
1:Z9:345:LEU:CD1	1:Z9:428:GLU:HG2	2.40	0.50
1:OA:80:LYS:HG3	1:JD:457:ILE:HG21	1.93	0.50
1:OA:133:ASN:O	1:OA:133:ASN:OD1	2.29	0.50
1:OA:273:ARG:NH1	1:NI:377:THR:HB	2.26	0.50
1:FB:457:ILE:HG21	1:GQ:80:LYS:HG3	1.92	0.50
1:dC:59:SER:HB3	1:cV:94:VAL:CG2	2.42	0.50
1:dC:309:ILE:HG23	1:dC:330:LEU:HD22	1.93	0.50
1:JD:273:ARG:NH1	1:KE:377:THR:HB	2.26	0.50
1:KE:14:ALA:HB1	1:KE:495:MET:HG2	1.92	0.50
1:LF:14:ALA:HB1	1:LF:495:MET:HG2	1.92	0.50
1:LF:237:ILE:HD12	1:LF:399:TYR:CD1	2.46	0.50
1:LF:257:ILE:N	1:LF:257:ILE:HD12	2.26	0.50
1:WG:192:GLN:HG2	1:VR:258:HIS:HB2	1.94	0.50
1:WG:471:ASP:OD1	1:XM:6:ASN:HB2	2.11	0.50
1:fK:176:THR:HG22	1:fK:339:ARG:HH21	1.75	0.50
1:fK:419:GLY:O	1:fK:423:VAL:HG23	2.12	0.50
1:HL:14:ALA:HB1	1:HL:495:MET:HG2	1.92	0.50
1:DN:257:ILE:HD12	1:DN:257:ILE:N	2.26	0.50
1:TP:125:ASN:O	1:TP:129:THR:HG23	2.11	0.50
1:TP:257:ILE:HD12	1:TP:257:ILE:N	2.26	0.50
1:TP:289:ALA:CB	1:TP:299:LEU:HD23	2.40	0.50
1:VR:82:MET:HB3	1:VR:438:ARG:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:491:GLY:O	1:VR:495:MET:HG3	2.11	0.50
1:bS:289:ALA:CB	1:bS:299:LEU:HD23	2.40	0.50
1:PU:14:ALA:HB1	1:PU:495:MET:HG2	1.92	0.50
1:PU:82:MET:HB3	1:PU:438:ARG:HG3	1.93	0.50
1:cV:131:THR:HA	1:cV:135:GLN:O	2.11	0.50
1:aW:125:ASN:O	1:aW:129:THR:HG23	2.11	0.50
1:aW:131:THR:HA	1:aW:135:GLN:O	2.11	0.50
1:EX:419:GLY:O	1:EX:423:VAL:HG23	2.12	0.50
1:Q2:59:SER:HB3	1:PU:94:VAL:CG2	2.41	0.50
1:Q2:94:VAL:CG2	1:R4:59:SER:HB3	2.41	0.50
1:Q2:257:ILE:HD12	1:Q2:257:ILE:N	2.26	0.50
1:I3:342:LEU:HD12	1:I3:350:ILE:HG21	1.93	0.50
1:R4:65:ILE:HD11	1:R4:455:ILE:HG22	1.93	0.50
1:R4:257:ILE:HD12	1:R4:257:ILE:N	2.26	0.50
1:S5:14:ALA:HB1	1:S5:495:MET:HG2	1.92	0.50
1:g6:419:GLY:O	1:g6:423:VAL:HG23	2.12	0.50
1:A7:125:ASN:O	1:A7:129:THR:HG23	2.11	0.50
1:FB:133:ASN:O	1:FB:133:ASN:OD1	2.29	0.50
1:dC:6:ASN:HB2	1:cV:471:ASP:OD1	2.12	0.50
1:dC:131:THR:HG23	1:dC:135:GLN:N	2.25	0.50
1:dC:131:THR:HA	1:dC:135:GLN:O	2.11	0.50
1:JD:79:ASP:HA	1:JD:82:MET:HE3	1.93	0.50
1:KE:237:ILE:HD12	1:KE:399:TYR:CD1	2.46	0.50
1:KE:257:ILE:N	1:KE:257:ILE:HD12	2.26	0.50
1:UH:14:ALA:HB1	1:UH:495:MET:HG2	1.92	0.50
1:UH:125:ASN:O	1:UH:129:THR:HG23	2.11	0.50
1:UH:257:ILE:N	1:UH:257:ILE:HD12	2.26	0.50
1:NI:237:ILE:CG1	1:NI:300:ARG:HG3	2.37	0.50
1:NI:461:ASN:CB	1:PU:77:VAL:HG22	2.41	0.50
1:HL:237:ILE:HD12	1:HL:399:TYR:CD1	2.46	0.50
1:DN:131:THR:HG23	1:DN:135:GLN:N	2.25	0.50
1:DN:289:ALA:HB2	1:DN:299:LEU:CD2	2.40	0.50
1:DN:419:GLY:O	1:DN:423:VAL:HG23	2.12	0.50
1:TP:444:VAL:O	1:TP:448:MET:HG3	2.11	0.50
1:GQ:237:ILE:HD12	1:GQ:399:TYR:CD1	2.46	0.50
1:PU:131:THR:HA	1:PU:135:GLN:O	2.11	0.50
1:aW:289:ALA:CB	1:aW:299:LEU:HD23	2.40	0.50
1:EX:133:ASN:O	1:EX:133:ASN:OD1	2.29	0.50
1:EX:257:ILE:HD12	1:EX:257:ILE:N	2.26	0.50
1:Y1:131:THR:HA	1:Y1:135:GLN:O	2.11	0.50
1:Y1:419:GLY:O	1:Y1:423:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:65:ILE:HD11	1:Q2:455:ILE:HG22	1.93	0.50
1:Q2:133:ASN:O	1:Q2:133:ASN:OD1	2.29	0.50
1:I3:131:THR:HA	1:I3:135:GLN:O	2.11	0.50
1:I3:237:ILE:HD12	1:I3:399:TYR:CD1	2.46	0.50
1:R4:82:MET:CE	1:R4:441:LEU:HD12	2.20	0.50
1:S5:289:ALA:CB	1:S5:299:LEU:HD23	2.40	0.50
1:e8:248:SER:HB3	1:e8:263:ALA:HA	1.93	0.50
1:e8:419:GLY:O	1:e8:423:VAL:HG23	2.12	0.50
1:Z9:131:THR:HA	1:Z9:135:GLN:O	2.11	0.50
1:Z9:419:GLY:O	1:Z9:423:VAL:HG23	2.12	0.50
1:Z9:461:ASN:CB	1:bS:77:VAL:HG22	2.41	0.50
1:OA:131:THR:HA	1:OA:135:GLN:O	2.11	0.50
1:FB:131:THR:HG23	1:FB:135:GLN:N	2.25	0.50
1:FB:131:THR:HA	1:FB:135:GLN:O	2.11	0.50
1:FB:257:ILE:N	1:FB:257:ILE:HD12	2.26	0.50
1:JD:237:ILE:HD12	1:JD:399:TYR:CD1	2.46	0.50
1:LF:457:ILE:HG21	1:MO:80:LYS:HG3	1.93	0.50
1:WG:79:ASP:HA	1:WG:82:MET:HE3	1.93	0.50
1:UH:18:SER:HB3	1:PU:3:PHE:HZ	1.75	0.50
1:UH:65:ILE:HD11	1:UH:455:ILE:HG22	1.93	0.50
1:UH:131:THR:HA	1:UH:135:GLN:O	2.11	0.50
1:UH:444:VAL:O	1:UH:448:MET:HG3	2.10	0.50
1:BJ:82:MET:HB3	1:BJ:438:ARG:HG3	1.93	0.50
1:BJ:125:ASN:O	1:BJ:129:THR:HG23	2.11	0.50
1:HL:131:THR:HA	1:HL:135:GLN:O	2.11	0.50
1:HL:342:LEU:HD12	1:HL:350:ILE:HG21	1.93	0.50
1:DN:79:ASP:HA	1:DN:82:MET:HE3	1.93	0.50
1:DN:133:ASN:OD1	1:DN:133:ASN:O	2.29	0.50
1:TP:14:ALA:HB1	1:TP:495:MET:HG2	1.92	0.50
1:GQ:14:ALA:HB1	1:GQ:495:MET:HG2	1.92	0.50
1:VR:79:ASP:HA	1:VR:82:MET:HE3	1.93	0.50
1:VR:176:THR:HG22	1:VR:339:ARG:HH21	1.75	0.50
1:CT:82:MET:HB3	1:CT:438:ARG:HG3	1.93	0.50
1:CT:125:ASN:O	1:CT:129:THR:HG23	2.11	0.50
1:PU:65:ILE:HD11	1:PU:455:ILE:HG22	1.93	0.50
1:cV:131:THR:HG23	1:cV:135:GLN:N	2.25	0.50
1:aW:419:GLY:O	1:aW:423:VAL:HG23	2.12	0.50
1:Y1:345:LEU:CD1	1:Y1:428:GLU:HG2	2.40	0.50
1:Q2:131:THR:HA	1:Q2:135:GLN:O	2.11	0.50
1:R4:131:THR:HA	1:R4:135:GLN:O	2.11	0.50
1:R4:133:ASN:O	1:R4:133:ASN:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:237:ILE:CD1	1:g6:300:ARG:HG3	2.42	0.50
1:A7:444:VAL:O	1:A7:448:MET:HG3	2.11	0.50
1:e8:237:ILE:CD1	1:e8:300:ARG:HG3	2.42	0.50
1:e8:287:VAL:CG2	1:e8:307:ILE:HG12	2.42	0.50
1:e8:461:ASN:CB	1:BJ:77:VAL:HG22	2.41	0.50
1:Z9:237:ILE:CD1	1:Z9:300:ARG:HG3	2.42	0.50
1:Z9:289:ALA:CB	1:Z9:299:LEU:HD23	2.40	0.50
1:OA:248:SER:HB3	1:OA:263:ALA:HA	1.93	0.50
1:FB:237:ILE:CD1	1:FB:300:ARG:HG3	2.42	0.50
1:FB:289:ALA:HB2	1:FB:299:LEU:CD2	2.40	0.50
1:KE:79:ASP:HA	1:KE:82:MET:HE3	1.93	0.50
1:WG:176:THR:HG22	1:WG:339:ARG:HH21	1.75	0.50
1:WG:258:HIS:HB2	1:XM:192:GLN:HG2	1.94	0.50
1:UH:237:ILE:HD12	1:UH:399:TYR:CD1	2.46	0.50
1:NI:3:PHE:HZ	1:PU:18:SER:CB	2.23	0.50
1:NI:94:VAL:CG2	1:MO:59:SER:HB3	2.41	0.50
1:NI:248:SER:HB3	1:NI:263:ALA:HA	1.93	0.50
1:fK:237:ILE:CD1	1:fK:300:ARG:HG3	2.42	0.50
1:fK:461:ASN:CB	1:CT:77:VAL:HG22	2.41	0.50
1:HL:80:LYS:HG3	1:EX:457:ILE:HG21	1.92	0.50
1:XM:79:ASP:HA	1:XM:82:MET:HE3	1.93	0.50
1:DN:69:ASN:HA	1:DN:72:MET:HE3	1.92	0.50
1:TP:65:ILE:HD11	1:TP:455:ILE:HG22	1.93	0.50
1:GQ:131:THR:HA	1:GQ:135:GLN:O	2.11	0.50
1:GQ:342:LEU:HD12	1:GQ:350:ILE:HG21	1.93	0.50
1:VR:131:THR:HA	1:VR:135:GLN:O	2.11	0.50
1:VR:237:ILE:CD1	1:VR:300:ARG:HG3	2.42	0.50
1:VR:289:ALA:CB	1:VR:299:LEU:HD23	2.40	0.50
1:bS:131:THR:HG23	1:bS:135:GLN:N	2.25	0.50
1:PU:79:ASP:HA	1:PU:82:MET:HE3	1.93	0.50
1:PU:133:ASN:OD1	1:PU:133:ASN:O	2.29	0.50
1:aW:491:GLY:O	1:aW:495:MET:HG3	2.11	0.50
1:EX:289:ALA:HB2	1:EX:299:LEU:CD2	2.40	0.50
1:Y1:69:ASN:HA	1:Y1:72:MET:HE3	1.92	0.50
1:Y1:237:ILE:CD1	1:Y1:300:ARG:HG3	2.42	0.50
1:Y1:289:ALA:CB	1:Y1:299:LEU:HD23	2.40	0.50
1:Q2:13:ASN:O	1:Q2:17:GLN:HG2	2.12	0.50
1:Q2:82:MET:CE	1:Q2:441:LEU:HD12	2.20	0.50
1:Q2:377:THR:HB	1:PU:273:ARG:NH1	2.26	0.50
1:I3:94:VAL:CG2	1:HL:59:SER:HB3	2.41	0.50
1:S5:79:ASP:HA	1:S5:82:MET:HE3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:237:ILE:HD12	1:S5:399:TYR:CD1	2.46	0.50
1:S5:237:ILE:CD1	1:S5:300:ARG:HG3	2.42	0.50
1:g6:248:SER:HB3	1:g6:263:ALA:HA	1.93	0.50
1:A7:59:SER:HB3	1:BJ:94:VAL:CG2	2.42	0.50
1:A7:287:VAL:CG2	1:A7:307:ILE:HG12	2.42	0.50
1:e8:257:ILE:N	1:e8:257:ILE:HD12	2.26	0.50
1:Z9:65:ILE:HD11	1:Z9:455:ILE:HG22	1.93	0.50
1:KE:94:VAL:CG2	1:LF:59:SER:HB3	2.42	0.50
1:WG:289:ALA:CB	1:WG:299:LEU:HD23	2.40	0.50
1:WG:419:GLY:O	1:WG:423:VAL:HG23	2.12	0.50
1:NI:131:THR:HA	1:NI:135:GLN:O	2.11	0.50
1:fK:248:SER:HB3	1:fK:263:ALA:HA	1.93	0.50
1:XM:131:THR:HA	1:XM:135:GLN:O	2.11	0.50
1:XM:419:GLY:O	1:XM:423:VAL:HG23	2.12	0.50
1:DN:131:THR:HA	1:DN:135:GLN:O	2.11	0.50
1:MO:131:THR:HA	1:MO:135:GLN:O	2.11	0.50
1:MO:248:SER:HB3	1:MO:263:ALA:HA	1.93	0.50
1:TP:131:THR:HA	1:TP:135:GLN:O	2.11	0.50
1:VR:202:GLU:HB2	1:aW:268:ASN:ND2	2.24	0.50
1:bS:125:ASN:O	1:bS:129:THR:HG23	2.11	0.50
1:PU:82:MET:CE	1:PU:441:LEU:HD12	2.20	0.50
1:EX:131:THR:HG23	1:EX:135:GLN:N	2.25	0.50
1:EX:131:THR:HA	1:EX:135:GLN:O	2.11	0.50
1:EX:237:ILE:CD1	1:EX:300:ARG:HG3	2.42	0.50
1:Q2:342:LEU:HD12	1:Q2:350:ILE:HG21	1.93	0.50
1:R4:13:ASN:O	1:R4:17:GLN:HG2	2.12	0.50
1:R4:342:LEU:HD12	1:R4:350:ILE:HG21	1.93	0.50
1:S5:131:THR:HA	1:S5:135:GLN:O	2.11	0.50
1:g6:79:ASP:HA	1:g6:82:MET:HE3	1.93	0.50
1:g6:257:ILE:N	1:g6:257:ILE:HD12	2.26	0.50
1:g6:287:VAL:CG2	1:g6:307:ILE:HG12	2.42	0.50
1:A7:82:MET:HB3	1:A7:438:ARG:HG3	1.93	0.50
1:A7:237:ILE:CD1	1:A7:300:ARG:HG3	2.42	0.50
1:A7:419:GLY:O	1:A7:423:VAL:HG23	2.12	0.50
1:Z9:491:GLY:O	1:Z9:495:MET:HG3	2.11	0.50
1:OA:13:ASN:O	1:OA:17:GLN:HG2	2.12	0.50
1:dC:125:ASN:O	1:dC:129:THR:HG23	2.11	0.50
1:LF:79:ASP:HA	1:LF:82:MET:HE3	1.93	0.50
1:WG:131:THR:HA	1:WG:135:GLN:O	2.11	0.50
1:WG:237:ILE:CD1	1:WG:300:ARG:HG3	2.42	0.50
1:UH:308:GLU:HG2	1:UH:335:THR:CG2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:287:VAL:CG2	1:BJ:307:ILE:HG12	2.42	0.50
1:BJ:444:VAL:O	1:BJ:448:MET:HG3	2.11	0.50
1:fK:202:GLU:HB2	1:CT:268:ASN:ND2	2.24	0.50
1:fK:257:ILE:HD12	1:fK:257:ILE:N	2.26	0.50
1:fK:287:VAL:CG2	1:fK:307:ILE:HG12	2.42	0.50
1:XM:289:ALA:CB	1:XM:299:LEU:HD23	2.40	0.50
1:DN:237:ILE:CD1	1:DN:300:ARG:HG3	2.42	0.50
1:TP:79:ASP:HA	1:TP:82:MET:HE3	1.93	0.50
1:TP:237:ILE:HD12	1:TP:399:TYR:CD1	2.46	0.50
1:TP:237:ILE:CD1	1:TP:300:ARG:HG3	2.42	0.50
1:TP:498:ALA:HB2	1:VR:29:LEU:HD13	1.94	0.50
1:VR:419:GLY:O	1:VR:423:VAL:HG23	2.12	0.50
1:PU:13:ASN:O	1:PU:17:GLN:HG2	2.12	0.50
1:cV:287:VAL:CG2	1:cV:307:ILE:HG12	2.42	0.50
1:aW:65:ILE:HD11	1:aW:455:ILE:HG22	1.94	0.50
1:aW:237:ILE:CD1	1:aW:300:ARG:HG3	2.42	0.50
1:EX:79:ASP:HA	1:EX:82:MET:HE3	1.93	0.50
1:Y1:237:ILE:CG1	1:Y1:300:ARG:HG3	2.37	0.50
1:Y1:491:GLY:O	1:Y1:495:MET:HG3	2.11	0.50
1:Q2:79:ASP:HA	1:Q2:82:MET:HE3	1.93	0.50
1:I3:77:VAL:HG22	1:DN:461:ASN:CB	2.42	0.50
1:S5:65:ILE:HD11	1:S5:455:ILE:HG22	1.94	0.50
1:e8:13:ASN:O	1:e8:17:GLN:HG2	2.12	0.50
1:OA:419:GLY:O	1:OA:423:VAL:HG23	2.12	0.50
1:FB:59:SER:HB3	1:EX:94:VAL:CG2	2.41	0.50
1:FB:69:ASN:HA	1:FB:72:MET:HE3	1.92	0.50
1:FB:79:ASP:HA	1:FB:82:MET:HE3	1.93	0.50
1:FB:287:VAL:CG2	1:FB:307:ILE:HG12	2.42	0.50
1:dC:82:MET:HB3	1:dC:438:ARG:HG3	1.93	0.50
1:dC:287:VAL:CG2	1:dC:307:ILE:HG12	2.42	0.50
1:JD:18:SER:CB	1:HL:3:PHE:HZ	2.25	0.50
1:LF:133:ASN:O	1:LF:133:ASN:OD1	2.29	0.50
1:UH:237:ILE:CD1	1:UH:300:ARG:HG3	2.42	0.50
1:NI:13:ASN:O	1:NI:17:GLN:HG2	2.12	0.50
1:NI:258:HIS:HB2	1:MO:192:GLN:HG2	1.94	0.50
1:NI:419:GLY:O	1:NI:423:VAL:HG23	2.12	0.50
1:BJ:3:PHE:HZ	1:EX:18:SER:HB3	1.75	0.50
1:BJ:237:ILE:CD1	1:BJ:300:ARG:HG3	2.42	0.50
1:BJ:419:GLY:O	1:BJ:423:VAL:HG23	2.12	0.50
1:BJ:456:SER:O	1:BJ:460:VAL:HG23	2.12	0.50
1:XM:65:ILE:HD11	1:XM:455:ILE:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:176:THR:HG22	1:XM:339:ARG:HH21	1.75	0.50
1:XM:237:ILE:CD1	1:XM:300:ARG:HG3	2.42	0.50
1:MO:13:ASN:O	1:MO:17:GLN:HG2	2.12	0.50
1:MO:419:GLY:O	1:MO:423:VAL:HG23	2.12	0.50
1:VR:248:SER:HB3	1:VR:263:ALA:HA	1.93	0.50
1:bS:248:SER:HB3	1:bS:263:ALA:HA	1.93	0.50
1:bS:287:VAL:CG2	1:bS:307:ILE:HG12	2.42	0.50
1:CT:237:ILE:CD1	1:CT:300:ARG:HG3	2.42	0.50
1:CT:287:VAL:CG2	1:CT:307:ILE:HG12	2.42	0.50
1:CT:419:GLY:O	1:CT:423:VAL:HG23	2.12	0.50
1:CT:444:VAL:O	1:CT:448:MET:HG3	2.11	0.50
1:cV:125:ASN:O	1:cV:129:THR:HG23	2.11	0.50
1:EX:69:ASN:HA	1:EX:72:MET:HE3	1.92	0.50
1:Y1:65:ILE:HD11	1:Y1:455:ILE:HG22	1.94	0.50
1:Q2:80:LYS:HG3	1:MO:457:ILE:HG21	1.94	0.50
1:R4:79:ASP:HA	1:R4:82:MET:HE3	1.93	0.50
1:S5:13:ASN:O	1:S5:17:GLN:HG2	2.12	0.50
1:S5:192:GLN:HG2	1:TP:258:HIS:HB2	1.94	0.50
1:A7:141:GLN:HG2	1:e8:223:LYS:HG3	1.94	0.50
1:e8:5:VAL:HB	1:fK:474:PHE:HE2	1.73	0.50
1:Z9:69:ASN:HA	1:Z9:72:MET:HE3	1.92	0.50
1:OA:237:ILE:CD1	1:OA:300:ARG:HG3	2.42	0.50
1:OA:456:SER:O	1:OA:460:VAL:HG23	2.12	0.50
1:dC:237:ILE:CD1	1:dC:300:ARG:HG3	2.42	0.50
1:JD:65:ILE:HD11	1:JD:455:ILE:HG22	1.93	0.50
1:JD:133:ASN:OD1	1:JD:133:ASN:O	2.29	0.50
1:KE:65:ILE:HD11	1:KE:455:ILE:HG22	1.94	0.50
1:KE:133:ASN:O	1:KE:133:ASN:OD1	2.29	0.50
1:LF:419:GLY:O	1:LF:423:VAL:HG23	2.12	0.50
1:WG:65:ILE:HD11	1:WG:455:ILE:HG22	1.93	0.50
1:UH:13:ASN:O	1:UH:17:GLN:HG2	2.12	0.50
1:UH:79:ASP:HA	1:UH:82:MET:HE3	1.93	0.50
1:NI:237:ILE:CD1	1:NI:300:ARG:HG3	2.42	0.50
1:fK:13:ASN:O	1:fK:17:GLN:HG2	2.12	0.50
1:fK:79:ASP:HA	1:fK:82:MET:HE3	1.93	0.50
1:bS:237:ILE:CD1	1:bS:300:ARG:HG3	2.42	0.50
1:CT:456:SER:O	1:CT:460:VAL:HG23	2.12	0.50
1:PU:342:LEU:HD12	1:PU:350:ILE:HG21	1.93	0.50
1:cV:13:ASN:O	1:cV:17:GLN:HG2	2.12	0.50
1:cV:237:ILE:CD1	1:cV:300:ARG:HG3	2.42	0.50
1:EX:287:VAL:CG2	1:EX:307:ILE:HG12	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:377:THR:HB	1:Z9:273:ARG:NH1	2.27	0.49
1:Q2:507:ARG:HB2	1:Q2:507:ARG:HH11	1.77	0.49
1:R4:237:ILE:CD1	1:R4:300:ARG:HG3	2.42	0.49
1:g6:13:ASN:O	1:g6:17:GLN:HG2	2.12	0.49
1:A7:456:SER:O	1:A7:460:VAL:HG23	2.12	0.49
1:e8:59:SER:HB3	1:fK:94:VAL:CG2	2.42	0.49
1:FB:377:THR:HB	1:EX:273:ARG:NH1	2.27	0.49
1:FB:456:SER:O	1:FB:460:VAL:HG23	2.12	0.49
1:dC:13:ASN:O	1:dC:17:GLN:HG2	2.12	0.49
1:dC:367:GLY:HA2	1:dC:372:GLN:CD	2.37	0.49
1:JD:77:VAL:HG22	1:HL:461:ASN:CB	2.41	0.49
1:JD:419:GLY:O	1:JD:423:VAL:HG23	2.12	0.49
1:KE:13:ASN:O	1:KE:17:GLN:HG2	2.12	0.49
1:KE:419:GLY:O	1:KE:423:VAL:HG23	2.12	0.49
1:LF:65:ILE:HD11	1:LF:455:ILE:HG22	1.94	0.49
1:WG:133:ASN:O	1:WG:133:ASN:OD1	2.29	0.49
1:WG:248:SER:HB3	1:WG:263:ALA:HA	1.93	0.49
1:WG:273:ARG:NH1	1:XM:377:THR:HB	2.27	0.49
1:NI:82:MET:CE	1:NI:441:LEU:HD12	2.20	0.49
1:NI:456:SER:O	1:NI:460:VAL:HG23	2.12	0.49
1:XM:133:ASN:O	1:XM:133:ASN:OD1	2.29	0.49
1:MO:82:MET:CE	1:MO:441:LEU:HD12	2.20	0.49
1:MO:237:ILE:CD1	1:MO:300:ARG:HG3	2.42	0.49
1:MO:456:SER:O	1:MO:460:VAL:HG23	2.12	0.49
1:TP:13:ASN:O	1:TP:17:GLN:HG2	2.12	0.49
1:VR:65:ILE:HD11	1:VR:455:ILE:HG22	1.93	0.49
1:bS:13:ASN:O	1:bS:17:GLN:HG2	2.12	0.49
1:CT:237:ILE:HD12	1:CT:399:TYR:CE1	2.47	0.49
1:PU:237:ILE:CD1	1:PU:300:ARG:HG3	2.42	0.49
1:PU:507:ARG:HB2	1:PU:507:ARG:HH11	1.77	0.49
1:cV:82:MET:HB3	1:cV:438:ARG:HG3	1.93	0.49
1:cV:248:SER:HB3	1:cV:263:ALA:HA	1.93	0.49
1:cV:367:GLY:HA2	1:cV:372:GLN:CD	2.37	0.49
1:Y1:287:VAL:CG2	1:Y1:307:ILE:HG12	2.42	0.49
1:Q2:237:ILE:CD1	1:Q2:300:ARG:HG3	2.42	0.49
1:I3:419:GLY:O	1:I3:423:VAL:HG23	2.12	0.49
1:I3:456:SER:O	1:I3:460:VAL:HG23	2.12	0.49
1:R4:367:GLY:HA2	1:R4:372:GLN:CD	2.37	0.49
1:R4:456:SER:O	1:R4:460:VAL:HG23	2.12	0.49
1:g6:80:LYS:HG3	1:bS:457:ILE:HG21	1.93	0.49
1:g6:420:ALA:O	1:g6:424:ILE:HG13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:13:ASN:O	1:A7:17:GLN:HG2	2.12	0.49
1:A7:237:ILE:HD12	1:A7:399:TYR:CE1	2.47	0.49
1:e8:69:ASN:HA	1:e8:72:MET:HE3	1.92	0.49
1:e8:79:ASP:HA	1:e8:82:MET:HE3	1.93	0.49
1:Z9:287:VAL:CG2	1:Z9:307:ILE:HG12	2.42	0.49
1:OA:82:MET:CE	1:OA:441:LEU:HD12	2.20	0.49
1:dC:419:GLY:O	1:dC:423:VAL:HG23	2.12	0.49
1:JD:13:ASN:O	1:JD:17:GLN:HG2	2.12	0.49
1:JD:131:THR:HA	1:JD:135:GLN:O	2.11	0.49
1:JD:367:GLY:HA2	1:JD:372:GLN:CD	2.37	0.49
1:JD:507:ARG:HB2	1:JD:507:ARG:HH11	1.78	0.49
1:KE:3:PHE:HZ	1:NI:18:SER:HB3	1.77	0.49
1:KE:131:THR:HA	1:KE:135:GLN:O	2.11	0.49
1:WG:367:GLY:HA2	1:WG:372:GLN:CD	2.37	0.49
1:UH:133:ASN:OD1	1:UH:133:ASN:O	2.29	0.49
1:UH:237:ILE:HD12	1:UH:399:TYR:CE1	2.47	0.49
1:UH:268:ASN:ND2	1:PU:202:GLU:HB2	2.25	0.49
1:UH:273:ARG:NH1	1:TP:377:THR:HB	2.27	0.49
1:NI:202:GLU:HB2	1:PU:268:ASN:ND2	2.23	0.49
1:BJ:13:ASN:O	1:BJ:17:GLN:HG2	2.12	0.49
1:BJ:59:SER:HB3	1:CT:94:VAL:CG2	2.42	0.49
1:BJ:377:THR:HB	1:CT:273:ARG:NH1	2.27	0.49
1:fK:420:ALA:O	1:fK:424:ILE:HG13	2.13	0.49
1:HL:456:SER:O	1:HL:460:VAL:HG23	2.12	0.49
1:XM:248:SER:HB3	1:XM:263:ALA:HA	1.93	0.49
1:DN:287:VAL:CG2	1:DN:307:ILE:HG12	2.42	0.49
1:DN:342:LEU:HD12	1:DN:350:ILE:HG21	1.93	0.49
1:DN:456:SER:O	1:DN:460:VAL:HG23	2.12	0.49
1:TP:133:ASN:O	1:TP:133:ASN:OD1	2.29	0.49
1:VR:353:VAL:CB	1:VR:359:GLN:HG3	2.25	0.49
1:bS:367:GLY:HA2	1:bS:372:GLN:CD	2.38	0.49
1:CT:13:ASN:O	1:CT:17:GLN:HG2	2.12	0.49
1:CT:367:GLY:HA2	1:CT:372:GLN:CD	2.38	0.49
1:PU:419:GLY:O	1:PU:423:VAL:HG23	2.12	0.49
1:aW:69:ASN:HA	1:aW:72:MET:HE3	1.92	0.49
1:EX:456:SER:O	1:EX:460:VAL:HG23	2.12	0.49
1:Y1:13:ASN:O	1:Y1:17:GLN:HG2	2.12	0.49
1:Y1:79:ASP:HA	1:Y1:82:MET:HE3	1.93	0.49
1:Y1:456:SER:O	1:Y1:460:VAL:HG23	2.12	0.49
1:Q2:367:GLY:HA2	1:Q2:372:GLN:CD	2.37	0.49
1:Q2:419:GLY:O	1:Q2:423:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:456:SER:O	1:Q2:460:VAL:HG23	2.12	0.49
1:Q2:461:ASN:CB	1:TP:77:VAL:HG22	2.41	0.49
1:R4:420:ALA:O	1:R4:424:ILE:HG13	2.13	0.49
1:R4:507:ARG:HB2	1:R4:507:ARG:HH11	1.78	0.49
1:S5:133:ASN:O	1:S5:133:ASN:OD1	2.29	0.49
1:S5:367:GLY:HA2	1:S5:372:GLN:CD	2.38	0.49
1:g6:456:SER:O	1:g6:460:VAL:HG23	2.12	0.49
1:g6:471:ASP:OD1	1:fK:6:ASN:HB2	2.13	0.49
1:A7:367:GLY:HA2	1:A7:372:GLN:CD	2.37	0.49
1:e8:457:ILE:HG21	1:BJ:80:LYS:HG3	1.93	0.49
1:Z9:3:PHE:HZ	1:bS:18:SER:CB	2.25	0.49
1:Z9:456:SER:O	1:Z9:460:VAL:HG23	2.12	0.49
1:OA:29:LEU:HD13	1:JD:498:ALA:HB2	1.92	0.49
1:OA:65:ILE:HD11	1:OA:455:ILE:HG22	1.93	0.49
1:OA:77:VAL:HG22	1:JD:461:ASN:CB	2.42	0.49
1:FB:192:GLN:HG2	1:EX:258:HIS:HB2	1.94	0.49
1:FB:342:LEU:HD12	1:FB:350:ILE:HG21	1.93	0.49
1:FB:461:ASN:CB	1:GQ:77:VAL:HG22	2.43	0.49
1:dC:377:THR:HB	1:cV:273:ARG:NH1	2.27	0.49
1:KE:507:ARG:HB2	1:KE:507:ARG:HH11	1.78	0.49
1:LF:13:ASN:O	1:LF:17:GLN:HG2	2.12	0.49
1:LF:367:GLY:HA2	1:LF:372:GLN:CD	2.37	0.49
1:WG:13:ASN:O	1:WG:17:GLN:HG2	2.12	0.49
1:BJ:237:ILE:HD12	1:BJ:399:TYR:CE1	2.47	0.49
1:BJ:457:ILE:HG21	1:EX:80:LYS:HG3	1.93	0.49
1:HL:419:GLY:O	1:HL:423:VAL:HG23	2.12	0.49
1:XM:13:ASN:O	1:XM:17:GLN:HG2	2.12	0.49
1:TP:237:ILE:HD12	1:TP:399:TYR:CE1	2.47	0.49
1:TP:308:GLU:HG2	1:TP:335:THR:CG2	2.27	0.49
1:TP:367:GLY:HA2	1:TP:372:GLN:CD	2.37	0.49
1:TP:457:ILE:HG21	1:VR:80:LYS:HG3	1.95	0.49
1:GQ:237:ILE:CD1	1:GQ:300:ARG:HG3	2.42	0.49
1:GQ:367:GLY:HA2	1:GQ:372:GLN:CD	2.37	0.49
1:GQ:456:SER:O	1:GQ:460:VAL:HG23	2.12	0.49
1:VR:133:ASN:OD1	1:VR:133:ASN:O	2.29	0.49
1:VR:367:GLY:HA2	1:VR:372:GLN:CD	2.38	0.49
1:bS:419:GLY:O	1:bS:423:VAL:HG23	2.12	0.49
1:PU:237:ILE:HD12	1:PU:399:TYR:CE1	2.47	0.49
1:PU:248:SER:HB3	1:PU:263:ALA:HA	1.93	0.49
1:cV:419:GLY:O	1:cV:423:VAL:HG23	2.12	0.49
1:aW:287:VAL:CG2	1:aW:307:ILE:HG12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:342:LEU:HD12	1:EX:350:ILE:HG21	1.93	0.49
1:Q2:237:ILE:HD12	1:Q2:399:TYR:CE1	2.47	0.49
1:Q2:248:SER:HB3	1:Q2:263:ALA:HA	1.93	0.49
1:Q2:420:ALA:O	1:Q2:424:ILE:HG13	2.13	0.49
1:I3:248:SER:HB3	1:I3:263:ALA:HA	1.93	0.49
1:R4:419:GLY:O	1:R4:423:VAL:HG23	2.12	0.49
1:S5:237:ILE:HD12	1:S5:399:TYR:CE1	2.47	0.49
1:S5:377:THR:HB	1:TP:273:ARG:NH1	2.27	0.49
1:S5:457:ILE:HG21	1:WG:80:LYS:HG3	1.95	0.49
1:g6:237:ILE:HD12	1:g6:399:TYR:CE1	2.47	0.49
1:g6:445:GLN:HB3	1:fK:42:ALA:HB2	1.95	0.49
1:A7:5:VAL:HB	1:BJ:474:PHE:HE2	1.73	0.49
1:e8:131:THR:HG23	1:e8:135:GLN:H	1.77	0.49
1:e8:420:ALA:O	1:e8:424:ILE:HG13	2.13	0.49
1:Z9:13:ASN:O	1:Z9:17:GLN:HG2	2.12	0.49
1:Z9:77:VAL:HG22	1:WG:461:ASN:CB	2.42	0.49
1:OA:367:GLY:HA2	1:OA:372:GLN:CD	2.37	0.49
1:FB:420:ALA:O	1:FB:424:ILE:HG13	2.13	0.49
1:dC:248:SER:HB3	1:dC:263:ALA:HA	1.93	0.49
1:KE:367:GLY:HA2	1:KE:372:GLN:CD	2.38	0.49
1:KE:420:ALA:O	1:KE:424:ILE:HG13	2.13	0.49
1:LF:131:THR:HA	1:LF:135:GLN:O	2.11	0.49
1:LF:507:ARG:HB2	1:LF:507:ARG:HH11	1.78	0.49
1:WG:353:VAL:CB	1:WG:359:GLN:HG3	2.25	0.49
1:NI:65:ILE:HD11	1:NI:455:ILE:HG22	1.93	0.49
1:NI:367:GLY:HA2	1:NI:372:GLN:CD	2.37	0.49
1:BJ:367:GLY:HA2	1:BJ:372:GLN:CD	2.38	0.49
1:BJ:461:ASN:CB	1:EX:77:VAL:HG22	2.42	0.49
1:fK:237:ILE:HD12	1:fK:399:TYR:CE1	2.47	0.49
1:HL:287:VAL:CG2	1:HL:307:ILE:HG12	2.42	0.49
1:XM:353:VAL:CB	1:XM:359:GLN:HG3	2.25	0.49
1:XM:367:GLY:HA2	1:XM:372:GLN:CD	2.38	0.49
1:DN:420:ALA:O	1:DN:424:ILE:HG13	2.13	0.49
1:GQ:287:VAL:CG2	1:GQ:307:ILE:HG12	2.42	0.49
1:GQ:419:GLY:O	1:GQ:423:VAL:HG23	2.12	0.49
1:VR:13:ASN:O	1:VR:17:GLN:HG2	2.12	0.49
1:bS:82:MET:HB3	1:bS:438:ARG:HG3	1.93	0.49
1:bS:214:ILE:HD11	1:bS:340:LEU:HB2	1.94	0.49
1:CT:214:ILE:HD11	1:CT:340:LEU:HB2	1.94	0.49
1:CT:248:SER:HB3	1:CT:263:ALA:HA	1.93	0.49
1:PU:367:GLY:HA2	1:PU:372:GLN:CD	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:420:ALA:O	1:PU:424:ILE:HG13	2.13	0.49
1:PU:456:SER:O	1:PU:460:VAL:HG23	2.12	0.49
1:aW:456:SER:O	1:aW:460:VAL:HG23	2.12	0.49
1:EX:420:ALA:O	1:EX:424:ILE:HG13	2.13	0.49
1:Q2:211:GLY:O	1:Q2:216:VAL:HG21	2.13	0.49
1:Q2:273:ARG:NH1	1:R4:377:THR:HB	2.27	0.49
1:I3:13:ASN:O	1:I3:17:GLN:HG2	2.12	0.49
1:I3:237:ILE:CD1	1:I3:300:ARG:HG3	2.42	0.49
1:I3:287:VAL:CG2	1:I3:307:ILE:HG12	2.42	0.49
1:R4:211:GLY:O	1:R4:216:VAL:HG21	2.13	0.49
1:R4:248:SER:HB3	1:R4:263:ALA:HA	1.93	0.49
1:g6:211:GLY:O	1:g6:216:VAL:HG21	2.13	0.49
1:g6:367:GLY:HA2	1:g6:372:GLN:CD	2.37	0.49
1:e8:211:GLY:O	1:e8:216:VAL:HG21	2.13	0.49
1:Z9:79:ASP:HA	1:Z9:82:MET:HE3	1.93	0.49
1:Z9:214:ILE:HD11	1:Z9:340:LEU:HB2	1.94	0.49
1:OA:211:GLY:O	1:OA:216:VAL:HG21	2.13	0.49
1:JD:420:ALA:O	1:JD:424:ILE:HG13	2.13	0.49
1:KE:18:SER:CB	1:GQ:3:PHE:HZ	2.25	0.49
1:KE:471:ASP:OD1	1:LF:6:ASN:HB2	2.12	0.49
1:LF:3:PHE:HZ	1:MO:18:SER:CB	2.25	0.49
1:LF:420:ALA:O	1:LF:424:ILE:HG13	2.13	0.49
1:LF:461:ASN:CB	1:MO:77:VAL:HG22	2.43	0.49
1:WG:94:VAL:CG2	1:XM:59:SER:HB3	2.42	0.49
1:UH:367:GLY:HA2	1:UH:372:GLN:CD	2.38	0.49
1:NI:211:GLY:O	1:NI:216:VAL:HG21	2.13	0.49
1:NI:360:HIS:ND1	1:NI:361:LEU:HD23	2.27	0.49
1:NI:420:ALA:O	1:NI:424:ILE:HG13	2.13	0.49
1:BJ:248:SER:HB3	1:BJ:263:ALA:HA	1.93	0.49
1:fK:69:ASN:HA	1:fK:72:MET:HE3	1.92	0.49
1:fK:456:SER:O	1:fK:460:VAL:HG23	2.12	0.49
1:HL:237:ILE:CD1	1:HL:300:ARG:HG3	2.42	0.49
1:HL:248:SER:HB3	1:HL:263:ALA:HA	1.93	0.49
1:HL:268:ASN:ND2	1:EX:202:GLU:HB2	2.25	0.49
1:HL:367:GLY:HA2	1:HL:372:GLN:CD	2.38	0.49
1:DN:77:VAL:HG22	1:CT:461:ASN:CB	2.42	0.49
1:DN:80:LYS:HG3	1:CT:457:ILE:HG21	1.93	0.49
1:DN:94:VAL:CG2	1:EX:59:SER:HB3	2.42	0.49
1:MO:211:GLY:O	1:MO:216:VAL:HG21	2.13	0.49
1:MO:360:HIS:ND1	1:MO:361:LEU:HD23	2.27	0.49
1:MO:367:GLY:HA2	1:MO:372:GLN:CD	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:420:ALA:O	1:MO:424:ILE:HG13	2.13	0.49
1:GQ:420:ALA:O	1:GQ:424:ILE:HG13	2.13	0.49
1:PU:211:GLY:O	1:PU:216:VAL:HG21	2.13	0.49
1:cV:214:ILE:HD11	1:cV:340:LEU:HB2	1.94	0.49
1:cV:360:HIS:ND1	1:cV:361:LEU:HD23	2.27	0.49
1:EX:367:GLY:HA2	1:EX:372:GLN:CD	2.37	0.49
1:Y1:214:ILE:HD11	1:Y1:340:LEU:HB2	1.95	0.49
1:Y1:237:ILE:HD12	1:Y1:399:TYR:CE1	2.47	0.49
1:Y1:457:ILE:HG21	1:cV:80:LYS:HG3	1.94	0.49
1:Q2:3:PHE:HZ	1:TP:18:SER:CB	2.26	0.49
1:Q2:6:ASN:HB2	1:PU:471:ASP:OD1	2.12	0.49
1:I3:367:GLY:HA2	1:I3:372:GLN:CD	2.37	0.49
1:I3:420:ALA:O	1:I3:424:ILE:HG13	2.13	0.49
1:S5:82:MET:CE	1:S5:441:LEU:HD12	2.20	0.49
1:g6:131:THR:HG23	1:g6:135:GLN:H	1.78	0.49
1:e8:214:ILE:HD11	1:e8:340:LEU:HB2	1.95	0.49
1:e8:237:ILE:HD12	1:e8:399:TYR:CE1	2.47	0.49
1:e8:456:SER:O	1:e8:460:VAL:HG23	2.12	0.49
1:OA:237:ILE:HD12	1:OA:399:TYR:CE1	2.47	0.49
1:OA:268:ASN:ND2	1:JD:202:GLU:HB2	2.26	0.49
1:OA:360:HIS:ND1	1:OA:361:LEU:HD23	2.28	0.49
1:OA:420:ALA:O	1:OA:424:ILE:HG13	2.13	0.49
1:LF:237:ILE:HD12	1:LF:399:TYR:CE1	2.47	0.49
1:LF:287:VAL:CG2	1:LF:307:ILE:HG12	2.42	0.49
1:WG:287:VAL:CG2	1:WG:307:ILE:HG12	2.42	0.49
1:WG:456:SER:O	1:WG:460:VAL:HG23	2.12	0.49
1:UH:82:MET:CE	1:UH:441:LEU:HD12	2.20	0.49
1:BJ:6:ASN:HB2	1:CT:471:ASP:OD1	2.13	0.49
1:BJ:214:ILE:HD11	1:BJ:340:LEU:HB2	1.95	0.49
1:fK:131:THR:HG23	1:fK:135:GLN:H	1.78	0.49
1:fK:211:GLY:O	1:fK:216:VAL:HG21	2.13	0.49
1:fK:214:ILE:HD11	1:fK:340:LEU:HB2	1.94	0.49
1:XM:287:VAL:CG2	1:XM:307:ILE:HG12	2.42	0.49
1:XM:507:ARG:HB2	1:XM:507:ARG:HH11	1.78	0.49
1:DN:367:GLY:HA2	1:DN:372:GLN:CD	2.37	0.49
1:TP:82:MET:CE	1:TP:441:LEU:HD12	2.20	0.49
1:GQ:248:SER:HB3	1:GQ:263:ALA:HA	1.93	0.49
1:VR:3:PHE:HZ	1:aW:18:SER:HB3	1.77	0.49
1:VR:456:SER:O	1:VR:460:VAL:HG23	2.12	0.49
1:bS:471:ASP:OD1	1:cV:6:ASN:HB2	2.13	0.49
1:aW:13:ASN:O	1:aW:17:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aW:79:ASP:HA	1:aW:82:MET:HE3	1.93	0.49
1:Y1:211:GLY:O	1:Y1:216:VAL:HG21	2.13	0.49
1:I3:445:GLN:HB3	1:HL:42:ALA:HB2	1.95	0.49
1:R4:237:ILE:HD12	1:R4:399:TYR:CE1	2.47	0.49
1:g6:69:ASN:HA	1:g6:72:MET:HE3	1.92	0.49
1:g6:214:ILE:HD11	1:g6:340:LEU:HB2	1.94	0.49
1:A7:6:ASN:HB2	1:BJ:471:ASP:OD1	2.13	0.49
1:A7:65:ILE:HD11	1:A7:455:ILE:HG22	1.94	0.49
1:A7:214:ILE:HD11	1:A7:340:LEU:HB2	1.95	0.49
1:A7:248:SER:HB3	1:A7:263:ALA:HA	1.93	0.49
1:e8:367:GLY:HA2	1:e8:372:GLN:CD	2.37	0.49
1:Z9:237:ILE:HD12	1:Z9:399:TYR:CE1	2.47	0.49
1:FB:248:SER:HB3	1:FB:263:ALA:HA	1.93	0.49
1:FB:367:GLY:HA2	1:FB:372:GLN:CD	2.38	0.49
1:dC:214:ILE:HD11	1:dC:340:LEU:HB2	1.95	0.49
1:dC:360:HIS:ND1	1:dC:361:LEU:HD23	2.28	0.49
1:JD:237:ILE:HD12	1:JD:399:TYR:CE1	2.47	0.49
1:KE:237:ILE:HD12	1:KE:399:TYR:CE1	2.47	0.49
1:KE:237:ILE:CD1	1:KE:300:ARG:HG3	2.42	0.49
1:KE:287:VAL:CG2	1:KE:307:ILE:HG12	2.42	0.49
1:LF:237:ILE:CD1	1:LF:300:ARG:HG3	2.42	0.49
1:WG:237:ILE:HD12	1:WG:399:TYR:CE1	2.47	0.49
1:WG:507:ARG:HB2	1:WG:507:ARG:HH11	1.78	0.49
1:NI:44:ASP:OD1	1:NI:44:ASP:C	2.55	0.49
1:BJ:65:ILE:HD11	1:BJ:455:ILE:HG22	1.94	0.49
1:HL:13:ASN:O	1:HL:17:GLN:HG2	2.12	0.49
1:HL:420:ALA:O	1:HL:424:ILE:HG13	2.13	0.49
1:XM:456:SER:O	1:XM:460:VAL:HG23	2.12	0.49
1:DN:65:ILE:HD11	1:DN:455:ILE:HG22	1.93	0.49
1:MO:65:ILE:HD11	1:MO:455:ILE:HG22	1.93	0.49
1:MO:237:ILE:HD12	1:MO:399:TYR:CE1	2.47	0.49
1:MO:287:VAL:CG2	1:MO:307:ILE:HG12	2.42	0.49
1:GQ:237:ILE:HD12	1:GQ:399:TYR:CE1	2.47	0.49
1:GQ:360:HIS:ND1	1:GQ:361:LEU:HD23	2.27	0.49
1:VR:507:ARG:HB2	1:VR:507:ARG:HH11	1.77	0.49
1:bS:273:ARG:NH1	1:cV:377:THR:HB	2.26	0.49
1:bS:360:HIS:ND1	1:bS:361:LEU:HD23	2.28	0.49
1:aW:237:ILE:HD12	1:aW:399:TYR:CE1	2.47	0.49
1:Q2:44:ASP:C	1:Q2:44:ASP:OD1	2.55	0.49
1:R4:44:ASP:C	1:R4:44:ASP:OD1	2.55	0.49
1:g6:77:VAL:HG22	1:bS:461:ASN:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:308:GLU:HG2	1:g6:335:THR:CG2	2.27	0.49
1:e8:44:ASP:C	1:e8:44:ASP:OD1	2.55	0.49
1:e8:202:GLU:HB2	1:BJ:268:ASN:ND2	2.26	0.49
1:e8:360:HIS:ND1	1:e8:361:LEU:HD23	2.27	0.49
1:Z9:192:GLN:HG2	1:aW:258:HIS:HB2	1.95	0.49
1:Z9:211:GLY:O	1:Z9:216:VAL:HG21	2.13	0.49
1:OA:287:VAL:CG2	1:OA:307:ILE:HG12	2.42	0.49
1:FB:13:ASN:O	1:FB:17:GLN:HG2	2.12	0.49
1:FB:237:ILE:HD12	1:FB:399:TYR:CE1	2.47	0.49
1:JD:237:ILE:CD1	1:JD:300:ARG:HG3	2.42	0.49
1:JD:287:VAL:CG2	1:JD:307:ILE:HG12	2.42	0.49
1:JD:353:VAL:CB	1:JD:359:GLN:HG3	2.25	0.49
1:JD:456:SER:O	1:JD:460:VAL:HG23	2.12	0.49
1:LF:360:HIS:ND1	1:LF:361:LEU:HD23	2.28	0.49
1:UH:29:LEU:HD13	1:PU:498:ALA:HB2	1.93	0.49
1:NI:237:ILE:HD12	1:NI:399:TYR:CE1	2.47	0.49
1:BJ:420:ALA:O	1:BJ:424:ILE:HG13	2.13	0.49
1:fK:360:HIS:ND1	1:fK:361:LEU:HD23	2.27	0.49
1:fK:367:GLY:HA2	1:fK:372:GLN:CD	2.38	0.49
1:HL:237:ILE:HD12	1:HL:399:TYR:CE1	2.47	0.49
1:HL:360:HIS:ND1	1:HL:361:LEU:HD23	2.27	0.49
1:XM:237:ILE:HD12	1:XM:399:TYR:CE1	2.47	0.49
1:XM:420:ALA:O	1:XM:424:ILE:HG13	2.13	0.49
1:MO:44:ASP:C	1:MO:44:ASP:OD1	2.55	0.49
1:TP:461:ASN:CB	1:VR:77:VAL:HG22	2.43	0.49
1:VR:214:ILE:HD11	1:VR:340:LEU:HB2	1.94	0.49
1:VR:237:ILE:HD12	1:VR:399:TYR:CE1	2.47	0.49
1:VR:287:VAL:CG2	1:VR:307:ILE:HG12	2.42	0.49
1:CT:65:ILE:HD11	1:CT:455:ILE:HG22	1.94	0.49
1:PU:44:ASP:C	1:PU:44:ASP:OD1	2.55	0.49
1:aW:211:GLY:O	1:aW:216:VAL:HG21	2.13	0.49
1:aW:214:ILE:HD11	1:aW:340:LEU:HB2	1.95	0.49
1:aW:420:ALA:O	1:aW:424:ILE:HG13	2.13	0.49
1:EX:237:ILE:HD12	1:EX:399:TYR:CE1	2.47	0.49
1:Y1:420:ALA:O	1:Y1:424:ILE:HG13	2.13	0.49
1:Q2:223:LYS:HG3	1:S5:141:GLN:HG2	1.95	0.49
1:R4:287:VAL:CG2	1:R4:307:ILE:HG12	2.42	0.49
1:S5:211:GLY:O	1:S5:216:VAL:HG21	2.13	0.49
1:S5:287:VAL:CG2	1:S5:307:ILE:HG12	2.42	0.49
1:S5:308:GLU:HG2	1:S5:335:THR:CG2	2.27	0.49
1:g6:65:ILE:HD11	1:g6:455:ILE:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:420:ALA:O	1:A7:424:ILE:HG13	2.13	0.49
1:e8:65:ILE:HD11	1:e8:455:ILE:HG22	1.94	0.49
1:e8:342:LEU:HD12	1:e8:350:ILE:HG21	1.93	0.49
1:e8:377:THR:HB	1:fK:273:ARG:NH1	2.27	0.49
1:Z9:420:ALA:O	1:Z9:424:ILE:HG13	2.13	0.49
1:OA:44:ASP:C	1:OA:44:ASP:OD1	2.55	0.49
1:FB:3:PHE:HZ	1:GQ:18:SER:CB	2.25	0.49
1:dC:342:LEU:HD12	1:dC:350:ILE:HG21	1.93	0.49
1:JD:82:MET:CE	1:JD:441:LEU:HD12	2.20	0.49
1:KE:360:HIS:ND1	1:KE:361:LEU:HD23	2.28	0.49
1:WG:420:ALA:O	1:WG:424:ILE:HG13	2.13	0.49
1:UH:211:GLY:O	1:UH:216:VAL:HG21	2.13	0.49
1:UH:258:HIS:HB2	1:TP:192:GLN:HG2	1.95	0.49
1:UH:507:ARG:HB2	1:UH:507:ARG:HH11	1.77	0.49
1:NI:273:ARG:NH1	1:MO:377:THR:HB	2.27	0.49
1:fK:65:ILE:HD11	1:fK:455:ILE:HG22	1.94	0.49
1:fK:342:LEU:HD12	1:fK:350:ILE:HG21	1.93	0.49
1:XM:360:HIS:ND1	1:XM:361:LEU:HD23	2.27	0.49
1:DN:13:ASN:O	1:DN:17:GLN:HG2	2.12	0.49
1:DN:237:ILE:HD12	1:DN:399:TYR:CE1	2.47	0.49
1:TP:211:GLY:O	1:TP:216:VAL:HG21	2.13	0.49
1:GQ:13:ASN:O	1:GQ:17:GLN:HG2	2.12	0.49
1:bS:342:LEU:HD12	1:bS:350:ILE:HG21	1.93	0.49
1:EX:13:ASN:O	1:EX:17:GLN:HG2	2.12	0.49
1:EX:65:ILE:HD11	1:EX:455:ILE:HG22	1.93	0.49
1:Q2:287:VAL:CG2	1:Q2:307:ILE:HG12	2.42	0.49
1:I3:214:ILE:HD11	1:I3:340:LEU:HB2	1.95	0.49
1:I3:237:ILE:HD12	1:I3:399:TYR:CE1	2.47	0.49
1:I3:258:HIS:HB2	1:HL:192:GLN:HG2	1.95	0.49
1:I3:360:HIS:ND1	1:I3:361:LEU:HD23	2.28	0.49
1:S5:214:ILE:HD11	1:S5:340:LEU:HB2	1.94	0.49
1:S5:342:LEU:HD12	1:S5:350:ILE:HG21	1.93	0.49
1:g6:360:HIS:ND1	1:g6:361:LEU:HD23	2.28	0.49
1:FB:131:THR:HG23	1:FB:135:GLN:H	1.77	0.49
1:FB:214:ILE:HD11	1:FB:340:LEU:HB2	1.95	0.49
1:dC:456:SER:O	1:dC:460:VAL:HG23	2.12	0.49
1:JD:360:HIS:ND1	1:JD:361:LEU:HD23	2.28	0.49
1:KE:456:SER:O	1:KE:460:VAL:HG23	2.12	0.49
1:LF:82:MET:CE	1:LF:441:LEU:HD12	2.20	0.49
1:LF:456:SER:O	1:LF:460:VAL:HG23	2.12	0.49
1:WG:48:MET:CE	1:VR:438:ARG:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:214:ILE:HD11	1:WG:340:LEU:HB2	1.95	0.49
1:WG:360:HIS:ND1	1:WG:361:LEU:HD23	2.27	0.49
1:UH:419:GLY:O	1:UH:423:VAL:HG23	2.12	0.49
1:fK:44:ASP:C	1:fK:44:ASP:OD1	2.55	0.49
1:HL:214:ILE:HD11	1:HL:340:LEU:HB2	1.94	0.49
1:DN:100:ALA:HB2	1:DN:420:ALA:HB1	1.95	0.49
1:TP:214:ILE:HD11	1:TP:340:LEU:HB2	1.94	0.49
1:TP:287:VAL:CG2	1:TP:307:ILE:HG12	2.42	0.49
1:GQ:214:ILE:HD11	1:GQ:340:LEU:HB2	1.94	0.49
1:VR:360:HIS:ND1	1:VR:361:LEU:HD23	2.27	0.49
1:bS:44:ASP:C	1:bS:44:ASP:OD1	2.55	0.49
1:CT:420:ALA:O	1:CT:424:ILE:HG13	2.13	0.49
1:cV:342:LEU:HD12	1:cV:350:ILE:HG21	1.93	0.49
1:aW:44:ASP:C	1:aW:44:ASP:OD1	2.55	0.49
1:EX:214:ILE:HD11	1:EX:340:LEU:HB2	1.94	0.49
1:EX:248:SER:HB3	1:EX:263:ALA:HA	1.93	0.49
1:Y1:367:GLY:HA2	1:Y1:372:GLN:CD	2.38	0.48
1:g6:44:ASP:C	1:g6:44:ASP:OD1	2.55	0.48
1:g6:342:LEU:HD12	1:g6:350:ILE:HG21	1.93	0.48
1:g6:475:ALA:HA	1:fK:507:ARG:NE	2.28	0.48
1:g6:482:ASN:O	1:g6:486:ILE:HG13	2.13	0.48
1:Z9:44:ASP:C	1:Z9:44:ASP:OD1	2.55	0.48
1:OA:482:ASN:O	1:OA:486:ILE:HG13	2.13	0.48
1:FB:65:ILE:HD11	1:FB:455:ILE:HG22	1.94	0.48
1:FB:100:ALA:HB2	1:FB:420:ALA:HB1	1.96	0.48
1:FB:202:GLU:HB2	1:GQ:268:ASN:ND2	2.25	0.48
1:FB:507:ARG:HB2	1:FB:507:ARG:HH11	1.77	0.48
1:dC:237:ILE:HD12	1:dC:399:TYR:CE1	2.47	0.48
1:KE:82:MET:CE	1:KE:441:LEU:HD12	2.20	0.48
1:KE:457:ILE:HG21	1:NI:80:LYS:HG3	1.95	0.48
1:LF:100:ALA:HB2	1:LF:420:ALA:HB1	1.95	0.48
1:UH:420:ALA:O	1:UH:424:ILE:HG13	2.13	0.48
1:NI:287:VAL:CG2	1:NI:307:ILE:HG12	2.42	0.48
1:NI:353:VAL:CB	1:NI:359:GLN:HG3	2.25	0.48
1:fK:482:ASN:O	1:fK:486:ILE:HG13	2.13	0.48
1:DN:131:THR:HG23	1:DN:135:GLN:H	1.77	0.48
1:DN:360:HIS:ND1	1:DN:361:LEU:HD23	2.27	0.48
1:DN:507:ARG:HB2	1:DN:507:ARG:HH11	1.78	0.48
1:MO:353:VAL:CB	1:MO:359:GLN:HG3	2.25	0.48
1:TP:342:LEU:HD12	1:TP:350:ILE:HG21	1.93	0.48
1:TP:507:ARG:HB2	1:TP:507:ARG:HH11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:342:LEU:HD12	1:VR:350:ILE:HG21	1.93	0.48
1:VR:420:ALA:O	1:VR:424:ILE:HG13	2.13	0.48
1:PU:287:VAL:CG2	1:PU:307:ILE:HG12	2.42	0.48
1:EX:100:ALA:HB2	1:EX:420:ALA:HB1	1.95	0.48
1:EX:360:HIS:ND1	1:EX:361:LEU:HD23	2.27	0.48
1:EX:507:ARG:HB2	1:EX:507:ARG:HH11	1.77	0.48
1:Y1:44:ASP:C	1:Y1:44:ASP:OD1	2.55	0.48
1:Q2:131:THR:HG23	1:Q2:135:GLN:H	1.77	0.48
1:I3:65:ILE:HD11	1:I3:455:ILE:HG22	1.94	0.48
1:R4:202:GLU:HB2	1:S5:268:ASN:ND2	2.27	0.48
1:R4:461:ASN:CB	1:S5:77:VAL:HG22	2.42	0.48
1:S5:419:GLY:O	1:S5:423:VAL:HG23	2.12	0.48
1:A7:44:ASP:C	1:A7:44:ASP:OD1	2.55	0.48
1:A7:190:PHE:HA	1:A7:351:ASN:O	2.14	0.48
1:A7:342:LEU:HD12	1:A7:350:ILE:HG21	1.93	0.48
1:e8:77:VAL:HG22	1:dC:461:ASN:CB	2.44	0.48
1:e8:482:ASN:O	1:e8:486:ILE:HG13	2.13	0.48
1:Z9:342:LEU:HD12	1:Z9:350:ILE:HG21	1.93	0.48
1:Z9:367:GLY:HA2	1:Z9:372:GLN:CD	2.37	0.48
1:OA:131:THR:HG23	1:OA:135:GLN:H	1.77	0.48
1:OA:353:VAL:CB	1:OA:359:GLN:HG3	2.25	0.48
1:OA:474:PHE:HE2	1:NI:5:VAL:HB	1.73	0.48
1:FB:211:GLY:O	1:FB:216:VAL:HG21	2.13	0.48
1:FB:360:HIS:ND1	1:FB:361:LEU:HD23	2.28	0.48
1:JD:211:GLY:O	1:JD:216:VAL:HG21	2.13	0.48
1:KE:100:ALA:HB2	1:KE:420:ALA:HB1	1.95	0.48
1:KE:353:VAL:CB	1:KE:359:GLN:HG3	2.25	0.48
1:LF:44:ASP:C	1:LF:44:ASP:OD1	2.55	0.48
1:WG:83:ASP:HB2	1:WG:438:ARG:NH2	2.29	0.48
1:UH:100:ALA:HB2	1:UH:420:ALA:HB1	1.95	0.48
1:UH:190:PHE:HA	1:UH:351:ASN:O	2.13	0.48
1:UH:214:ILE:HD11	1:UH:340:LEU:HB2	1.94	0.48
1:UH:287:VAL:CG2	1:UH:307:ILE:HG12	2.42	0.48
1:UH:342:LEU:HD12	1:UH:350:ILE:HG21	1.93	0.48
1:BJ:342:LEU:HD12	1:BJ:350:ILE:HG21	1.93	0.48
1:HL:65:ILE:HD11	1:HL:455:ILE:HG22	1.93	0.48
1:XM:83:ASP:HB2	1:XM:438:ARG:NH2	2.29	0.48
1:XM:214:ILE:HD11	1:XM:340:LEU:HB2	1.95	0.48
1:DN:83:ASP:HB2	1:DN:438:ARG:NH2	2.28	0.48
1:DN:248:SER:HB3	1:DN:263:ALA:HA	1.93	0.48
1:MO:482:ASN:O	1:MO:486:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:419:GLY:O	1:TP:423:VAL:HG23	2.12	0.48
1:TP:420:ALA:O	1:TP:424:ILE:HG13	2.13	0.48
1:GQ:65:ILE:HD11	1:GQ:455:ILE:HG22	1.93	0.48
1:VR:83:ASP:HB2	1:VR:438:ARG:NH2	2.29	0.48
1:CT:342:LEU:HD12	1:CT:350:ILE:HG21	1.93	0.48
1:PU:131:THR:HG23	1:PU:135:GLN:H	1.78	0.48
1:cV:44:ASP:C	1:cV:44:ASP:OD1	2.55	0.48
1:cV:456:SER:O	1:cV:460:VAL:HG23	2.12	0.48
1:aW:482:ASN:O	1:aW:486:ILE:HG13	2.13	0.48
1:EX:131:THR:HG23	1:EX:135:GLN:H	1.78	0.48
1:Y1:190:PHE:HA	1:Y1:351:ASN:O	2.13	0.48
1:Y1:342:LEU:HD12	1:Y1:350:ILE:HG21	1.93	0.48
1:Y1:482:ASN:O	1:Y1:486:ILE:HG13	2.13	0.48
1:R4:360:HIS:ND1	1:R4:361:LEU:HD23	2.28	0.48
1:S5:83:ASP:HB2	1:S5:438:ARG:NH2	2.29	0.48
1:S5:100:ALA:HB2	1:S5:420:ALA:HB1	1.95	0.48
1:S5:420:ALA:O	1:S5:424:ILE:HG13	2.13	0.48
1:g6:190:PHE:HA	1:g6:351:ASN:O	2.14	0.48
1:e8:18:SER:CB	1:dC:3:PHE:HZ	2.25	0.48
1:FB:83:ASP:HB2	1:FB:438:ARG:NH2	2.29	0.48
1:dC:83:ASP:HB2	1:dC:438:ARG:NH2	2.29	0.48
1:dC:420:ALA:O	1:dC:424:ILE:HG13	2.13	0.48
1:JD:100:ALA:HB2	1:JD:420:ALA:HB1	1.95	0.48
1:JD:258:HIS:HB2	1:KE:192:GLN:HG2	1.95	0.48
1:KE:211:GLY:O	1:KE:216:VAL:HG21	2.13	0.48
1:KE:461:ASN:CB	1:NI:77:VAL:HG22	2.43	0.48
1:LF:211:GLY:O	1:LF:216:VAL:HG21	2.13	0.48
1:WG:342:LEU:HD12	1:WG:350:ILE:HG21	1.93	0.48
1:UH:44:ASP:C	1:UH:44:ASP:OD1	2.55	0.48
1:UH:131:THR:HG23	1:UH:135:GLN:H	1.78	0.48
1:UH:482:ASN:O	1:UH:486:ILE:HG13	2.13	0.48
1:NI:131:THR:HG23	1:NI:135:GLN:H	1.78	0.48
1:NI:482:ASN:O	1:NI:486:ILE:HG13	2.14	0.48
1:BJ:190:PHE:HA	1:BJ:351:ASN:O	2.14	0.48
1:DN:211:GLY:O	1:DN:216:VAL:HG21	2.13	0.48
1:DN:214:ILE:HD11	1:DN:340:LEU:HB2	1.95	0.48
1:TP:83:ASP:HB2	1:TP:438:ARG:NH2	2.28	0.48
1:TP:100:ALA:HB2	1:TP:420:ALA:HB1	1.95	0.48
1:TP:190:PHE:HA	1:TP:351:ASN:O	2.13	0.48
1:bS:237:ILE:HD12	1:bS:399:TYR:CE1	2.47	0.48
1:bS:258:HIS:HB2	1:cV:192:GLN:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:190:PHE:HA	1:CT:351:ASN:O	2.14	0.48
1:PU:83:ASP:HB2	1:PU:438:ARG:NH2	2.29	0.48
1:cV:190:PHE:HA	1:cV:351:ASN:O	2.13	0.48
1:cV:237:ILE:HD12	1:cV:399:TYR:CE1	2.47	0.48
1:aW:342:LEU:HD12	1:aW:350:ILE:HG21	1.93	0.48
1:aW:367:GLY:HA2	1:aW:372:GLN:CD	2.37	0.48
1:aW:507:ARG:HB2	1:aW:507:ARG:HH11	1.78	0.48
1:EX:83:ASP:HB2	1:EX:438:ARG:NH2	2.29	0.48
1:EX:211:GLY:O	1:EX:216:VAL:HG21	2.13	0.48
1:Y1:360:HIS:ND1	1:Y1:361:LEU:HD23	2.27	0.48
1:Q2:83:ASP:HB2	1:Q2:438:ARG:NH2	2.29	0.48
1:Q2:192:GLN:HG2	1:PU:258:HIS:HB2	1.96	0.48
1:I3:80:LYS:HG3	1:DN:457:ILE:HG21	1.94	0.48
1:I3:83:ASP:HB2	1:I3:438:ARG:NH2	2.29	0.48
1:R4:100:ALA:HB2	1:R4:420:ALA:HB1	1.95	0.48
1:R4:131:THR:HG23	1:R4:135:GLN:H	1.78	0.48
1:S5:190:PHE:HA	1:S5:351:ASN:O	2.14	0.48
1:g6:83:ASP:HB2	1:g6:438:ARG:NH2	2.29	0.48
1:g6:100:ALA:HB2	1:g6:420:ALA:HB1	1.95	0.48
1:Z9:190:PHE:HA	1:Z9:351:ASN:O	2.13	0.48
1:Z9:482:ASN:O	1:Z9:486:ILE:HG13	2.14	0.48
1:Z9:507:ARG:HB2	1:Z9:507:ARG:HH11	1.78	0.48
1:OA:94:VAL:CG2	1:NI:59:SER:HB3	2.42	0.48
1:dC:44:ASP:C	1:dC:44:ASP:OD1	2.55	0.48
1:dC:65:ILE:HD11	1:dC:455:ILE:HG22	1.94	0.48
1:fK:83:ASP:HB2	1:fK:438:ARG:NH2	2.28	0.48
1:fK:190:PHE:HA	1:fK:351:ASN:O	2.14	0.48
1:HL:83:ASP:HB2	1:HL:438:ARG:NH2	2.29	0.48
1:XM:342:LEU:HD12	1:XM:350:ILE:HG21	1.93	0.48
1:MO:131:THR:HG23	1:MO:135:GLN:H	1.78	0.48
1:TP:44:ASP:C	1:TP:44:ASP:OD1	2.55	0.48
1:TP:482:ASN:O	1:TP:486:ILE:HG13	2.14	0.48
1:GQ:83:ASP:HB2	1:GQ:438:ARG:NH2	2.29	0.48
1:VR:44:ASP:C	1:VR:44:ASP:OD1	2.55	0.48
1:bS:65:ILE:HD11	1:bS:455:ILE:HG22	1.93	0.48
1:bS:190:PHE:HA	1:bS:351:ASN:O	2.14	0.48
1:bS:456:SER:O	1:bS:460:VAL:HG23	2.12	0.48
1:cV:83:ASP:HB2	1:cV:438:ARG:NH2	2.29	0.48
1:Y1:507:ARG:HB2	1:Y1:507:ARG:HH11	1.78	0.48
1:Q2:100:ALA:HB2	1:Q2:420:ALA:HB1	1.95	0.48
1:Q2:360:HIS:ND1	1:Q2:361:LEU:HD23	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:44:ASP:C	1:S5:44:ASP:OD1	2.55	0.48
1:S5:131:THR:HG23	1:S5:135:GLN:H	1.78	0.48
1:S5:482:ASN:O	1:S5:486:ILE:HG13	2.14	0.48
1:S5:507:ARG:HB2	1:S5:507:ARG:HH11	1.78	0.48
1:g6:258:HIS:HB2	1:fK:192:GLN:HG2	1.95	0.48
1:e8:100:ALA:HB2	1:e8:420:ALA:HB1	1.95	0.48
1:e8:190:PHE:HA	1:e8:351:ASN:O	2.14	0.48
1:Z9:6:ASN:HB2	1:aW:471:ASP:OD1	2.14	0.48
1:Z9:360:HIS:ND1	1:Z9:361:LEU:HD23	2.28	0.48
1:OA:100:ALA:HB2	1:OA:420:ALA:HB1	1.95	0.48
1:FB:44:ASP:C	1:FB:44:ASP:OD1	2.55	0.48
1:dC:190:PHE:HA	1:dC:351:ASN:O	2.14	0.48
1:LF:248:SER:HB3	1:LF:263:ALA:HA	1.93	0.48
1:UH:83:ASP:HB2	1:UH:438:ARG:NH2	2.29	0.48
1:NI:100:ALA:HB2	1:NI:420:ALA:HB1	1.95	0.48
1:BJ:44:ASP:C	1:BJ:44:ASP:OD1	2.55	0.48
1:fK:100:ALA:HB2	1:fK:420:ALA:HB1	1.95	0.48
1:XM:211:GLY:O	1:XM:216:VAL:HG21	2.13	0.48
1:XM:482:ASN:O	1:XM:486:ILE:HG13	2.13	0.48
1:TP:131:THR:HG23	1:TP:135:GLN:H	1.78	0.48
1:bS:83:ASP:HB2	1:bS:438:ARG:NH2	2.29	0.48
1:CT:44:ASP:C	1:CT:44:ASP:OD1	2.55	0.48
1:PU:360:HIS:ND1	1:PU:361:LEU:HD23	2.27	0.48
1:cV:65:ILE:HD11	1:cV:455:ILE:HG22	1.93	0.48
1:cV:420:ALA:O	1:cV:424:ILE:HG13	2.13	0.48
1:aW:190:PHE:HA	1:aW:351:ASN:O	2.14	0.48
1:Y1:3:PHE:HZ	1:cV:18:SER:CB	2.26	0.48
1:Y1:77:VAL:HG22	1:XM:461:ASN:CB	2.43	0.48
1:I3:131:THR:HG23	1:I3:135:GLN:H	1.78	0.48
1:R4:83:ASP:HB2	1:R4:438:ARG:NH2	2.29	0.48
1:S5:360:HIS:ND1	1:S5:361:LEU:HD23	2.28	0.48
1:A7:360:HIS:ND1	1:A7:361:LEU:HD23	2.27	0.48
1:e8:83:ASP:HB2	1:e8:438:ARG:NH2	2.29	0.48
1:JD:131:THR:HG23	1:JD:135:GLN:H	1.77	0.48
1:JD:248:SER:HB3	1:JD:263:ALA:HA	1.93	0.48
1:JD:268:ASN:ND2	1:HL:202:GLU:HB2	2.23	0.48
1:JD:471:ASP:OD1	1:KE:6:ASN:HB2	2.13	0.48
1:KE:248:SER:HB3	1:KE:263:ALA:HA	1.93	0.48
1:WG:44:ASP:C	1:WG:44:ASP:OD1	2.55	0.48
1:WG:131:THR:HG23	1:WG:135:GLN:H	1.77	0.48
1:WG:211:GLY:O	1:WG:216:VAL:HG21	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:360:HIS:ND1	1:UH:361:LEU:HD23	2.27	0.48
1:NI:214:ILE:HD11	1:NI:340:LEU:HB2	1.94	0.48
1:HL:131:THR:HG23	1:HL:135:GLN:H	1.78	0.48
1:HL:445:GLN:HB3	1:GQ:42:ALA:HB2	1.96	0.48
1:HL:482:ASN:O	1:HL:486:ILE:HG13	2.13	0.48
1:XM:131:THR:HG23	1:XM:135:GLN:H	1.77	0.48
1:MO:214:ILE:HD11	1:MO:340:LEU:HB2	1.94	0.48
1:TP:360:HIS:ND1	1:TP:361:LEU:HD23	2.27	0.48
1:GQ:131:THR:HG23	1:GQ:135:GLN:H	1.78	0.48
1:GQ:482:ASN:O	1:GQ:486:ILE:HG13	2.13	0.48
1:VR:82:MET:O	1:VR:86:LEU:HD23	2.14	0.48
1:bS:420:ALA:O	1:bS:424:ILE:HG13	2.13	0.48
1:CT:211:GLY:O	1:CT:216:VAL:HG21	2.13	0.48
1:Q2:82:MET:O	1:Q2:86:LEU:HD23	2.14	0.48
1:I3:82:MET:O	1:I3:86:LEU:HD23	2.14	0.48
1:S5:456:SER:O	1:S5:460:VAL:HG23	2.12	0.48
1:A7:83:ASP:HB2	1:A7:438:ARG:NH2	2.29	0.48
1:A7:457:ILE:HG21	1:FB:80:LYS:HG3	1.95	0.48
1:Z9:82:MET:O	1:Z9:86:LEU:HD23	2.14	0.48
1:JD:83:ASP:HB2	1:JD:438:ARG:NH2	2.29	0.48
1:LF:83:ASP:HB2	1:LF:438:ARG:NH2	2.29	0.48
1:WG:82:MET:O	1:WG:86:LEU:HD23	2.14	0.48
1:WG:482:ASN:O	1:WG:486:ILE:HG13	2.13	0.48
1:BJ:211:GLY:O	1:BJ:216:VAL:HG21	2.13	0.48
1:BJ:360:HIS:ND1	1:BJ:361:LEU:HD23	2.28	0.48
1:XM:44:ASP:OD1	1:XM:44:ASP:C	2.55	0.48
1:XM:82:MET:O	1:XM:86:LEU:HD23	2.14	0.48
1:MO:100:ALA:HB2	1:MO:420:ALA:HB1	1.95	0.48
1:GQ:507:ARG:HB2	1:GQ:507:ARG:HH11	1.78	0.48
1:VR:131:THR:HG23	1:VR:135:GLN:H	1.78	0.48
1:VR:211:GLY:O	1:VR:216:VAL:HG21	2.13	0.48
1:bS:211:GLY:O	1:bS:216:VAL:HG21	2.13	0.48
1:CT:353:VAL:CB	1:CT:359:GLN:HG3	2.25	0.48
1:PU:82:MET:O	1:PU:86:LEU:HD23	2.14	0.48
1:PU:100:ALA:HB2	1:PU:420:ALA:HB1	1.95	0.48
1:aW:100:ALA:HB2	1:aW:420:ALA:HB1	1.95	0.48
1:aW:360:HIS:ND1	1:aW:361:LEU:HD23	2.27	0.48
1:EX:44:ASP:C	1:EX:44:ASP:OD1	2.55	0.48
1:I3:482:ASN:O	1:I3:486:ILE:HG13	2.14	0.48
1:R4:82:MET:O	1:R4:86:LEU:HD23	2.14	0.48
1:R4:482:ASN:O	1:R4:486:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:82:MET:O	1:S5:86:LEU:HD23	2.14	0.48
1:Z9:42:ALA:HB2	1:aW:445:GLN:HB3	1.95	0.48
1:Z9:100:ALA:HB2	1:Z9:420:ALA:HB1	1.95	0.48
1:OA:214:ILE:HD11	1:OA:340:LEU:HB2	1.95	0.48
1:KE:77:VAL:HG22	1:GQ:461:ASN:CB	2.43	0.48
1:KE:83:ASP:HB2	1:KE:438:ARG:NH2	2.29	0.48
1:LF:131:THR:HG23	1:LF:135:GLN:H	1.78	0.48
1:LF:353:VAL:CB	1:LF:359:GLN:HG3	2.25	0.48
1:WG:42:ALA:HB2	1:VR:445:GLN:HB3	1.95	0.48
1:UH:82:MET:O	1:UH:86:LEU:HD23	2.14	0.48
1:UH:456:SER:O	1:UH:460:VAL:HG23	2.12	0.48
1:BJ:42:ALA:HB2	1:CT:445:GLN:HB3	1.96	0.48
1:BJ:83:ASP:HB2	1:BJ:438:ARG:NH2	2.29	0.48
1:fK:507:ARG:HB2	1:fK:507:ARG:HH11	1.77	0.48
1:HL:82:MET:O	1:HL:86:LEU:HD23	2.14	0.48
1:HL:507:ARG:HB2	1:HL:507:ARG:HH11	1.78	0.48
1:DN:44:ASP:C	1:DN:44:ASP:OD1	2.55	0.48
1:DN:445:GLN:HB3	1:EX:42:ALA:HB2	1.96	0.48
1:TP:456:SER:O	1:TP:460:VAL:HG23	2.12	0.48
1:VR:482:ASN:O	1:VR:486:ILE:HG13	2.14	0.48
1:CT:360:HIS:ND1	1:CT:361:LEU:HD23	2.28	0.48
1:cV:211:GLY:O	1:cV:216:VAL:HG21	2.13	0.48
1:aW:83:ASP:HB2	1:aW:438:ARG:NH2	2.29	0.48
1:Y1:82:MET:O	1:Y1:86:LEU:HD23	2.14	0.48
1:Y1:100:ALA:HB2	1:Y1:420:ALA:HB1	1.96	0.48
1:Y1:141:GLN:HG2	1:WG:223:LYS:HG3	1.95	0.48
1:Q2:482:ASN:O	1:Q2:486:ILE:HG13	2.13	0.48
1:I3:18:SER:HB3	1:DN:3:PHE:HZ	1.79	0.48
1:g6:507:ARG:HB2	1:g6:507:ARG:HH11	1.78	0.48
1:A7:211:GLY:O	1:A7:216:VAL:HG21	2.13	0.48
1:A7:482:ASN:O	1:A7:486:ILE:HG13	2.13	0.48
1:Z9:131:THR:HG23	1:Z9:135:GLN:H	1.78	0.48
1:Z9:268:ASN:ND2	1:WG:202:GLU:HB2	2.26	0.48
1:OA:83:ASP:HB2	1:OA:438:ARG:NH2	2.28	0.48
1:dC:211:GLY:O	1:dC:216:VAL:HG21	2.13	0.48
1:JD:82:MET:O	1:JD:86:LEU:HD23	2.14	0.48
1:KE:82:MET:O	1:KE:86:LEU:HD23	2.14	0.48
1:KE:131:THR:HG23	1:KE:135:GLN:H	1.78	0.48
1:UH:77:VAL:HG22	1:PU:461:ASN:CB	2.43	0.48
1:fK:80:LYS:HG3	1:cV:457:ILE:HG21	1.95	0.48
1:DN:482:ASN:O	1:DN:486:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:82:MET:O	1:TP:86:LEU:HD23	2.14	0.48
1:aW:82:MET:O	1:aW:86:LEU:HD23	2.14	0.48
1:Y1:83:ASP:HB2	1:Y1:438:ARG:NH2	2.28	0.48
1:Y1:131:THR:HG23	1:Y1:135:GLN:H	1.78	0.48
1:Y1:461:ASN:CB	1:cV:77:VAL:HG22	2.43	0.48
1:Q2:471:ASP:OD1	1:R4:6:ASN:HB2	2.13	0.48
1:I3:507:ARG:HB2	1:I3:507:ARG:HH11	1.78	0.48
1:R4:190:PHE:HA	1:R4:351:ASN:O	2.13	0.48
1:e8:3:PHE:HZ	1:BJ:18:SER:CB	2.27	0.48
1:e8:6:ASN:HB2	1:fK:471:ASP:OD1	2.14	0.48
1:Z9:83:ASP:HB2	1:Z9:438:ARG:NH2	2.29	0.48
1:OA:82:MET:O	1:OA:86:LEU:HD23	2.14	0.48
1:OA:507:ARG:HB2	1:OA:507:ARG:HH11	1.77	0.48
1:FB:294:LYS:HE2	1:FB:294:LYS:HB2	1.69	0.48
1:dC:82:MET:O	1:dC:86:LEU:HD23	2.14	0.48
1:JD:190:PHE:HA	1:JD:351:ASN:O	2.13	0.48
1:JD:308:GLU:HG2	1:JD:335:THR:CG2	2.27	0.48
1:LF:190:PHE:HA	1:LF:351:ASN:O	2.13	0.48
1:BJ:482:ASN:O	1:BJ:486:ILE:HG13	2.13	0.48
1:HL:211:GLY:O	1:HL:216:VAL:HG21	2.13	0.48
1:DN:82:MET:O	1:DN:86:LEU:HD23	2.14	0.48
1:DN:258:HIS:HB2	1:EX:192:GLN:HG2	1.96	0.48
1:DN:294:LYS:HE2	1:DN:294:LYS:HB2	1.69	0.48
1:MO:82:MET:O	1:MO:86:LEU:HD23	2.14	0.48
1:GQ:82:MET:O	1:GQ:86:LEU:HD23	2.14	0.48
1:CT:83:ASP:HB2	1:CT:438:ARG:NH2	2.29	0.48
1:cV:82:MET:O	1:cV:86:LEU:HD23	2.14	0.48
1:aW:131:THR:HG23	1:aW:135:GLN:H	1.78	0.48
1:EX:82:MET:O	1:EX:86:LEU:HD23	2.14	0.48
1:EX:482:ASN:O	1:EX:486:ILE:HG13	2.13	0.48
1:Q2:190:PHE:HA	1:Q2:351:ASN:O	2.13	0.47
1:I3:100:ALA:HB2	1:I3:420:ALA:HB1	1.95	0.47
1:I3:211:GLY:O	1:I3:216:VAL:HG21	2.13	0.47
1:I3:308:GLU:HG2	1:I3:335:THR:CG2	2.27	0.47
1:I3:471:ASP:CB	1:HL:4:GLN:HG2	2.42	0.47
1:I3:475:ALA:HA	1:HL:507:ARG:NE	2.29	0.47
1:A7:377:THR:HB	1:BJ:273:ARG:NH1	2.29	0.47
1:e8:507:ARG:HB2	1:e8:507:ARG:HH11	1.78	0.47
1:FB:82:MET:O	1:FB:86:LEU:HD23	2.14	0.47
1:FB:190:PHE:HA	1:FB:351:ASN:O	2.14	0.47
1:FB:482:ASN:O	1:FB:486:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:482:ASN:O	1:dC:486:ILE:HG13	2.13	0.47
1:JD:445:GLN:HB3	1:KE:42:ALA:HB2	1.96	0.47
1:KE:190:PHE:HA	1:KE:351:ASN:O	2.14	0.47
1:LF:82:MET:O	1:LF:86:LEU:HD23	2.14	0.47
1:NI:82:MET:O	1:NI:86:LEU:HD23	2.14	0.47
1:DN:190:PHE:HA	1:DN:351:ASN:O	2.14	0.47
1:GQ:44:ASP:C	1:GQ:44:ASP:OD1	2.55	0.47
1:GQ:211:GLY:O	1:GQ:216:VAL:HG21	2.13	0.47
1:bS:82:MET:O	1:bS:86:LEU:HD23	2.14	0.47
1:PU:482:ASN:O	1:PU:486:ILE:HG13	2.14	0.47
1:EX:190:PHE:HA	1:EX:351:ASN:O	2.14	0.47
1:EX:294:LYS:HB2	1:EX:294:LYS:HE2	1.69	0.47
1:Q2:77:VAL:HG22	1:MO:461:ASN:CB	2.44	0.47
1:I3:294:LYS:HE2	1:I3:294:LYS:HB2	1.69	0.47
1:A7:100:ALA:HB2	1:A7:420:ALA:HB1	1.95	0.47
1:e8:82:MET:O	1:e8:86:LEU:HD23	2.14	0.47
1:OA:294:LYS:HE2	1:OA:294:LYS:HB2	1.69	0.47
1:OA:308:GLU:HG2	1:OA:335:THR:CG2	2.27	0.47
1:KE:498:ALA:HB2	1:NI:29:LEU:HD13	1.95	0.47
1:WG:6:ASN:HB2	1:VR:471:ASP:OD1	2.14	0.47
1:WG:190:PHE:HA	1:WG:351:ASN:O	2.13	0.47
1:NI:294:LYS:HB2	1:NI:294:LYS:HE2	1.69	0.47
1:NI:507:ARG:HB2	1:NI:507:ARG:HH11	1.77	0.47
1:BJ:192:GLN:HG2	1:CT:258:HIS:HB2	1.96	0.47
1:fK:77:VAL:HG22	1:cV:461:ASN:CB	2.45	0.47
1:fK:82:MET:O	1:fK:86:LEU:HD23	2.14	0.47
1:HL:100:ALA:HB2	1:HL:420:ALA:HB1	1.95	0.47
1:HL:294:LYS:HB2	1:HL:294:LYS:HE2	1.69	0.47
1:XM:100:ALA:HB2	1:XM:420:ALA:HB1	1.95	0.47
1:VR:190:PHE:HA	1:VR:351:ASN:O	2.14	0.47
1:CT:82:MET:O	1:CT:86:LEU:HD23	2.14	0.47
1:CT:482:ASN:O	1:CT:486:ILE:HG13	2.14	0.47
1:Q2:214:ILE:HD11	1:Q2:340:LEU:HB2	1.94	0.47
1:I3:44:ASP:C	1:I3:44:ASP:OD1	2.55	0.47
1:R4:214:ILE:HD11	1:R4:340:LEU:HB2	1.94	0.47
1:S5:461:ASN:CB	1:WG:77:VAL:HG22	2.44	0.47
1:g6:82:MET:O	1:g6:86:LEU:HD23	2.14	0.47
1:KE:308:GLU:HG2	1:KE:335:THR:CG2	2.27	0.47
1:KE:445:GLN:HB3	1:LF:42:ALA:HB2	1.96	0.47
1:WG:4:GLN:HG2	1:VR:471:ASP:CB	2.43	0.47
1:NI:83:ASP:HB2	1:NI:438:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:200:THR:HB	1:PU:294:LYS:HD3	1.97	0.47
1:BJ:82:MET:O	1:BJ:86:LEU:HD23	2.14	0.47
1:BJ:100:ALA:HB2	1:BJ:420:ALA:HB1	1.95	0.47
1:BJ:353:VAL:CB	1:BJ:359:GLN:HG3	2.25	0.47
1:BJ:507:ARG:NE	1:CT:475:ALA:HA	2.29	0.47
1:HL:44:ASP:C	1:HL:44:ASP:OD1	2.55	0.47
1:DN:18:SER:CB	1:CT:3:PHE:HZ	2.28	0.47
1:GQ:294:LYS:HE2	1:GQ:294:LYS:HB2	1.69	0.47
1:bS:131:THR:HG23	1:bS:135:GLN:H	1.78	0.47
1:bS:445:GLN:HB3	1:cV:42:ALA:HB2	1.96	0.47
1:PU:190:PHE:HA	1:PU:351:ASN:O	2.14	0.47
1:PU:214:ILE:HD11	1:PU:340:LEU:HB2	1.94	0.47
1:cV:482:ASN:O	1:cV:486:ILE:HG13	2.13	0.47
1:Q2:18:SER:CB	1:MO:3:PHE:HZ	2.26	0.47
1:S5:6:ASN:HB2	1:TP:471:ASP:OD1	2.14	0.47
1:A7:82:MET:O	1:A7:86:LEU:HD23	2.14	0.47
1:JD:214:ILE:HD11	1:JD:340:LEU:HB2	1.95	0.47
1:JD:294:LYS:HD3	1:HL:200:THR:HB	1.97	0.47
1:KE:214:ILE:HD11	1:KE:340:LEU:HB2	1.95	0.47
1:KE:475:ALA:HA	1:LF:507:ARG:NE	2.30	0.47
1:KE:482:ASN:O	1:KE:486:ILE:HG13	2.13	0.47
1:LF:214:ILE:HD11	1:LF:340:LEU:HB2	1.94	0.47
1:WG:82:MET:CE	1:WG:441:LEU:HD12	2.20	0.47
1:WG:100:ALA:HB2	1:WG:420:ALA:HB1	1.96	0.47
1:XM:82:MET:CE	1:XM:441:LEU:HD12	2.20	0.47
1:MO:83:ASP:HB2	1:MO:438:ARG:NH2	2.28	0.47
1:MO:294:LYS:HE2	1:MO:294:LYS:HB2	1.69	0.47
1:VR:100:ALA:HB2	1:VR:420:ALA:HB1	1.95	0.47
1:cV:131:THR:HG23	1:cV:135:GLN:H	1.78	0.47
1:Q2:42:ALA:HB2	1:PU:445:GLN:HB3	1.96	0.47
1:Q2:507:ARG:NE	1:PU:475:ALA:HA	2.29	0.47
1:A7:138:LEU:HB3	1:A7:164:THR:HG1	1.78	0.47
1:OA:190:PHE:HA	1:OA:351:ASN:O	2.14	0.47
1:FB:6:ASN:HB2	1:EX:471:ASP:OD1	2.15	0.47
1:dC:100:ALA:HB2	1:dC:420:ALA:HB1	1.95	0.47
1:dC:131:THR:HG23	1:dC:135:GLN:H	1.78	0.47
1:LF:482:ASN:O	1:LF:486:ILE:HG13	2.13	0.47
1:XM:190:PHE:HA	1:XM:351:ASN:O	2.13	0.47
1:DN:475:ALA:HA	1:EX:507:ARG:NE	2.29	0.47
1:GQ:100:ALA:HB2	1:GQ:420:ALA:HB1	1.95	0.47
1:GQ:190:PHE:HA	1:GQ:351:ASN:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:82:MET:CE	1:VR:441:LEU:HD12	2.20	0.47
1:bS:482:ASN:O	1:bS:486:ILE:HG13	2.13	0.47
1:OA:258:HIS:HB2	1:NI:192:GLN:HG2	1.97	0.47
1:KE:141:GLN:HG2	1:HL:223:LYS:HG3	1.95	0.47
1:NI:190:PHE:HA	1:NI:351:ASN:O	2.13	0.47
1:NI:308:GLU:HG2	1:NI:335:THR:CG2	2.27	0.47
1:HL:308:GLU:HG2	1:HL:335:THR:CG2	2.27	0.47
1:HL:438:ARG:HB3	1:GQ:48:MET:CE	2.42	0.47
1:HL:471:ASP:OD1	1:GQ:6:ASN:HB2	2.15	0.47
1:CT:100:ALA:HB2	1:CT:420:ALA:HB1	1.95	0.47
1:Y1:202:GLU:HB2	1:cV:268:ASN:ND2	2.28	0.47
1:Y1:268:ASN:ND2	1:XM:202:GLU:HB2	2.27	0.47
1:I3:82:MET:CE	1:I3:441:LEU:HD12	2.20	0.47
1:I3:471:ASP:OD1	1:HL:6:ASN:HB2	2.15	0.47
1:g6:438:ARG:HB3	1:fK:48:MET:CE	2.43	0.47
1:A7:353:VAL:CB	1:A7:359:GLN:HG3	2.25	0.47
1:A7:461:ASN:CB	1:FB:77:VAL:HG22	2.45	0.47
1:e8:42:ALA:HB2	1:fK:445:GLN:HB3	1.97	0.47
1:e8:80:LYS:HG3	1:dC:457:ILE:HG21	1.96	0.47
1:Z9:223:LYS:HG3	1:cV:141:GLN:HG2	1.96	0.47
1:OA:445:GLN:HB3	1:NI:42:ALA:HB2	1.97	0.47
1:OA:475:ALA:HA	1:NI:507:ARG:HE	1.80	0.47
1:FB:42:ALA:HB2	1:EX:445:GLN:HB3	1.97	0.47
1:FB:141:GLN:HG2	1:BJ:223:LYS:HG3	1.96	0.47
1:JD:482:ASN:O	1:JD:486:ILE:HG13	2.13	0.47
1:LF:202:GLU:HB2	1:MO:268:ASN:ND2	2.28	0.47
1:LF:308:GLU:HG2	1:LF:335:THR:CG2	2.27	0.47
1:HL:18:SER:CB	1:EX:3:PHE:HZ	2.27	0.47
1:HL:82:MET:CE	1:HL:441:LEU:HD12	2.20	0.47
1:HL:190:PHE:HA	1:HL:351:ASN:O	2.14	0.47
1:MO:190:PHE:HA	1:MO:351:ASN:O	2.13	0.47
1:MO:507:ARG:HB2	1:MO:507:ARG:HH11	1.78	0.47
1:GQ:141:GLN:HG2	1:EX:223:LYS:HG3	1.96	0.47
1:GQ:308:GLU:HG2	1:GQ:335:THR:CG2	2.27	0.47
1:bS:100:ALA:HB2	1:bS:420:ALA:HB1	1.95	0.47
1:bS:141:GLN:HG2	1:aW:223:LYS:HG3	1.96	0.47
1:cV:100:ALA:HB2	1:cV:420:ALA:HB1	1.95	0.47
1:I3:190:PHE:HA	1:I3:351:ASN:O	2.14	0.47
1:Z9:507:ARG:NE	1:aW:475:ALA:HA	2.30	0.47
1:OA:475:ALA:HA	1:NI:507:ARG:NE	2.29	0.47
1:JD:44:ASP:C	1:JD:44:ASP:OD1	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:44:ASP:C	1:KE:44:ASP:OD1	2.55	0.47
1:KE:475:ALA:HA	1:LF:507:ARG:HE	1.80	0.47
1:WG:104:GLN:OE1	1:WG:112:ILE:HD11	2.15	0.47
1:NI:445:GLN:HB3	1:MO:42:ALA:HB2	1.96	0.47
1:MO:308:GLU:HG2	1:MO:335:THR:CG2	2.27	0.47
1:I3:223:LYS:HG3	1:JD:141:GLN:HG2	1.95	0.47
1:I3:268:ASN:ND2	1:DN:202:GLU:HB2	2.27	0.47
1:JD:475:ALA:HA	1:KE:507:ARG:NE	2.30	0.47
1:WG:475:ALA:HA	1:XM:507:ARG:NE	2.30	0.47
1:fK:3:PHE:HZ	1:CT:18:SER:CB	2.27	0.47
1:fK:83:ASP:HB2	1:fK:438:ARG:CZ	2.45	0.47
1:XM:104:GLN:OE1	1:XM:112:ILE:HD11	2.15	0.47
1:TP:141:GLN:HG2	1:PU:223:LYS:HG3	1.97	0.47
1:GQ:82:MET:CE	1:GQ:441:LEU:HD12	2.20	0.47
1:bS:104:GLN:OE1	1:bS:112:ILE:HD11	2.15	0.47
1:Y1:6:ASN:HB2	1:Z9:471:ASP:OD1	2.15	0.47
1:Y1:42:ALA:HB2	1:Z9:445:GLN:HB3	1.96	0.47
1:I3:438:ARG:HB3	1:HL:48:MET:CE	2.43	0.47
1:g6:83:ASP:HB2	1:g6:438:ARG:CZ	2.45	0.47
1:KE:202:GLU:HB2	1:NI:268:ASN:ND2	2.28	0.47
1:HL:471:ASP:CB	1:GQ:4:GLN:HG2	2.43	0.47
1:DN:475:ALA:HA	1:EX:507:ARG:HE	1.80	0.47
1:VR:104:GLN:OE1	1:VR:112:ILE:HD11	2.15	0.47
1:cV:104:GLN:OE1	1:cV:112:ILE:HD11	2.15	0.47
1:Q2:445:GLN:HB3	1:R4:42:ALA:HB2	1.97	0.46
1:R4:262:ILE:HG21	1:R4:265:ILE:HD11	1.98	0.46
1:A7:131:THR:HG23	1:A7:135:GLN:H	1.78	0.46
1:A7:148:GLN:HA	1:A7:156:SER:HB3	1.97	0.46
1:e8:83:ASP:HB2	1:e8:438:ARG:CZ	2.46	0.46
1:dC:83:ASP:HB2	1:dC:438:ARG:CZ	2.45	0.46
1:dC:104:GLN:OE1	1:dC:112:ILE:HD11	2.15	0.46
1:LF:262:ILE:HG21	1:LF:265:ILE:HD11	1.98	0.46
1:BJ:131:THR:HG23	1:BJ:135:GLN:H	1.77	0.46
1:BJ:148:GLN:HA	1:BJ:156:SER:HB3	1.97	0.46
1:GQ:441:LEU:HD23	1:GQ:441:LEU:HA	1.81	0.46
1:CT:131:THR:HG23	1:CT:135:GLN:H	1.77	0.46
1:Q2:262:ILE:HG21	1:Q2:265:ILE:HD11	1.98	0.46
1:S5:42:ALA:HB2	1:TP:445:GLN:HB3	1.97	0.46
1:JD:262:ILE:HG21	1:JD:265:ILE:HD11	1.98	0.46
1:KE:262:ILE:HG21	1:KE:265:ILE:HD11	1.98	0.46
1:fK:148:GLN:HA	1:fK:156:SER:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:83:ASP:HB2	1:DN:438:ARG:CZ	2.45	0.46
1:DN:262:ILE:HG21	1:DN:265:ILE:HD11	1.98	0.46
1:I3:29:LEU:HD13	1:DN:498:ALA:HB2	1.95	0.46
1:g6:148:GLN:HA	1:g6:156:SER:HB3	1.97	0.46
1:e8:48:MET:CE	1:fK:438:ARG:HB3	2.44	0.46
1:e8:104:GLN:OE1	1:e8:112:ILE:HD11	2.15	0.46
1:e8:148:GLN:HA	1:e8:156:SER:HB3	1.97	0.46
1:FB:83:ASP:HB2	1:FB:438:ARG:CZ	2.45	0.46
1:FB:262:ILE:HG21	1:FB:265:ILE:HD11	1.98	0.46
1:WG:507:ARG:NE	1:VR:475:ALA:HA	2.30	0.46
1:fK:18:SER:CB	1:cV:3:PHE:HZ	2.27	0.46
1:fK:104:GLN:OE1	1:fK:112:ILE:HD11	2.15	0.46
1:bS:83:ASP:HB2	1:bS:438:ARG:CZ	2.46	0.46
1:CT:148:GLN:HA	1:CT:156:SER:HB3	1.97	0.46
1:PU:262:ILE:HG21	1:PU:265:ILE:HD11	1.98	0.46
1:cV:83:ASP:HB2	1:cV:438:ARG:CZ	2.46	0.46
1:EX:262:ILE:HG21	1:EX:265:ILE:HD11	1.98	0.46
1:FB:148:GLN:HA	1:FB:156:SER:HB3	1.97	0.46
1:dC:42:ALA:HB2	1:cV:445:GLN:HB3	1.97	0.46
1:JD:104:GLN:OE1	1:JD:112:ILE:HD11	2.15	0.46
1:KE:104:GLN:OE1	1:KE:112:ILE:HD11	2.15	0.46
1:LF:104:GLN:OE1	1:LF:112:ILE:HD11	2.15	0.46
1:HL:441:LEU:HD23	1:HL:441:LEU:HA	1.82	0.46
1:HL:475:ALA:HA	1:GQ:507:ARG:NE	2.31	0.46
1:DN:308:GLU:HG2	1:DN:335:THR:CG2	2.27	0.46
1:GQ:104:GLN:OE1	1:GQ:112:ILE:HD11	2.15	0.46
1:CT:83:ASP:HB2	1:CT:438:ARG:CZ	2.45	0.46
1:EX:83:ASP:HB2	1:EX:438:ARG:CZ	2.46	0.46
1:Q2:475:ALA:HA	1:R4:507:ARG:NE	2.31	0.46
1:I3:104:GLN:OE1	1:I3:112:ILE:HD11	2.15	0.46
1:I3:148:GLN:HA	1:I3:156:SER:HB3	1.97	0.46
1:S5:3:PHE:HZ	1:WG:18:SER:CB	2.28	0.46
1:S5:507:ARG:NE	1:TP:475:ALA:HA	2.31	0.46
1:g6:104:GLN:OE1	1:g6:112:ILE:HD11	2.15	0.46
1:g6:223:LYS:HG3	1:CT:141:GLN:HG2	1.97	0.46
1:g6:268:ASN:ND2	1:bS:202:GLU:HB2	2.26	0.46
1:A7:507:ARG:NE	1:BJ:475:ALA:HA	2.31	0.46
1:e8:507:ARG:NE	1:fK:475:ALA:HA	2.31	0.46
1:FB:503:GLN:HA	1:FB:506:LEU:CD1	2.46	0.46
1:dC:507:ARG:HE	1:cV:475:ALA:HA	1.80	0.46
1:JD:293:GLN:HB2	1:HL:224:ASN:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:471:ASP:OD1	1:MO:6:ASN:HB2	2.16	0.46
1:HL:104:GLN:OE1	1:HL:112:ILE:HD11	2.15	0.46
1:HL:148:GLN:HA	1:HL:156:SER:HB3	1.97	0.46
1:HL:503:GLN:HA	1:HL:506:LEU:CD1	2.46	0.46
1:XM:262:ILE:HG21	1:XM:265:ILE:HD11	1.98	0.46
1:DN:148:GLN:HA	1:DN:156:SER:HB3	1.97	0.46
1:DN:464:ALA:HA	1:EX:9:ILE:CD1	2.46	0.46
1:DN:503:GLN:HA	1:DN:506:LEU:CD1	2.46	0.46
1:GQ:148:GLN:HA	1:GQ:156:SER:HB3	1.97	0.46
1:GQ:503:GLN:HA	1:GQ:506:LEU:CD1	2.46	0.46
1:VR:262:ILE:HG21	1:VR:265:ILE:HD11	1.97	0.46
1:bS:294:LYS:HE2	1:bS:294:LYS:HB2	1.69	0.46
1:EX:148:GLN:HA	1:EX:156:SER:HB3	1.97	0.46
1:Y1:48:MET:CE	1:Z9:438:ARG:HB3	2.43	0.46
1:Q2:4:GLN:HG2	1:PU:471:ASP:CB	2.45	0.46
1:Q2:104:GLN:OE1	1:Q2:112:ILE:HD11	2.15	0.46
1:Q2:507:ARG:HE	1:PU:475:ALA:HA	1.81	0.46
1:g6:18:SER:CB	1:bS:3:PHE:HZ	2.27	0.46
1:g6:262:ILE:HG21	1:g6:265:ILE:HD11	1.97	0.46
1:A7:42:ALA:HB2	1:BJ:445:GLN:HB3	1.98	0.46
1:Z9:224:ASN:OD1	1:bS:293:GLN:HB2	2.15	0.46
1:LF:148:GLN:HA	1:LF:156:SER:HB3	1.97	0.46
1:WG:262:ILE:HG21	1:WG:265:ILE:HD11	1.98	0.46
1:WG:354:SER:N	1:WG:359:GLN:HE21	2.14	0.46
1:WG:438:ARG:HB3	1:XM:48:MET:CE	2.45	0.46
1:UH:262:ILE:HG21	1:UH:265:ILE:HD11	1.98	0.46
1:XM:354:SER:N	1:XM:359:GLN:HE21	2.14	0.46
1:TP:262:ILE:HG21	1:TP:265:ILE:HD11	1.98	0.46
1:GQ:83:ASP:HB2	1:GQ:438:ARG:CZ	2.45	0.46
1:bS:475:ALA:HA	1:cV:507:ARG:NE	2.30	0.46
1:PU:308:GLU:HG2	1:PU:335:THR:CG2	2.27	0.46
1:cV:294:LYS:HE2	1:cV:294:LYS:HB2	1.69	0.46
1:EX:503:GLN:HA	1:EX:506:LEU:CD1	2.46	0.46
1:I3:503:GLN:HA	1:I3:506:LEU:CD1	2.46	0.46
1:R4:104:GLN:OE1	1:R4:112:ILE:HD11	2.15	0.46
1:R4:191:LYS:HE2	1:R4:191:LYS:HB3	1.73	0.46
1:g6:397:ALA:HB2	1:g6:418:ARG:HG3	1.98	0.46
1:A7:83:ASP:HB2	1:A7:438:ARG:CZ	2.46	0.46
1:OA:397:ALA:HB2	1:OA:418:ARG:HG3	1.98	0.46
1:OA:464:ALA:HA	1:NI:9:ILE:CD1	2.46	0.46
1:FB:397:ALA:HB2	1:FB:418:ARG:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dC:353:VAL:CB	1:dC:359:GLN:HG3	2.25	0.46
1:UH:445:GLN:HB3	1:TP:42:ALA:HB2	1.97	0.46
1:UH:471:ASP:OD1	1:TP:6:ASN:HB2	2.16	0.46
1:NI:224:ASN:OD1	1:PU:293:GLN:HB2	2.15	0.46
1:BJ:83:ASP:HB2	1:BJ:438:ARG:CZ	2.45	0.46
1:VR:354:SER:N	1:VR:359:GLN:HE21	2.14	0.46
1:bS:353:VAL:CB	1:bS:359:GLN:HG3	2.25	0.46
1:PU:104:GLN:OE1	1:PU:112:ILE:HD11	2.15	0.46
1:S5:262:ILE:HG21	1:S5:265:ILE:HD11	1.98	0.46
1:S5:354:SER:N	1:S5:359:GLN:HE21	2.14	0.46
1:A7:262:ILE:HG21	1:A7:265:ILE:HD11	1.98	0.46
1:e8:397:ALA:HB2	1:e8:418:ARG:HG3	1.98	0.46
1:dC:148:GLN:HA	1:dC:156:SER:HB3	1.97	0.46
1:dC:503:GLN:HA	1:dC:506:LEU:CD1	2.46	0.46
1:JD:148:GLN:HA	1:JD:156:SER:HB3	1.97	0.46
1:KE:148:GLN:HA	1:KE:156:SER:HB3	1.97	0.46
1:KE:223:LYS:HG3	1:MO:141:GLN:HG2	1.98	0.46
1:NI:438:ARG:HB3	1:MO:48:MET:CE	2.43	0.46
1:BJ:141:GLN:HG2	1:fK:223:LYS:HG3	1.97	0.46
1:fK:397:ALA:HB2	1:fK:418:ARG:HG3	1.98	0.46
1:HL:83:ASP:HB2	1:HL:438:ARG:CZ	2.46	0.46
1:MO:104:GLN:OE1	1:MO:112:ILE:HD11	2.15	0.46
1:bS:148:GLN:HA	1:bS:156:SER:HB3	1.97	0.46
1:cV:148:GLN:HA	1:cV:156:SER:HB3	1.97	0.46
1:cV:353:VAL:CB	1:cV:359:GLN:HG3	2.25	0.46
1:cV:503:GLN:HA	1:cV:506:LEU:CD1	2.46	0.46
1:aW:262:ILE:HG21	1:aW:265:ILE:HD11	1.98	0.46
1:EX:308:GLU:HG2	1:EX:335:THR:CG2	2.27	0.46
1:EX:397:ALA:HB2	1:EX:418:ARG:HG3	1.98	0.46
1:Y1:104:GLN:OE1	1:Y1:112:ILE:HD11	2.15	0.46
1:Y1:262:ILE:HG21	1:Y1:265:ILE:HD11	1.98	0.46
1:I3:83:ASP:HB2	1:I3:438:ARG:CZ	2.45	0.46
1:I3:441:LEU:HD23	1:I3:441:LEU:HA	1.82	0.46
1:A7:104:GLN:OE1	1:A7:112:ILE:HD11	2.15	0.46
1:e8:503:GLN:HA	1:e8:506:LEU:CD1	2.46	0.46
1:Z9:104:GLN:OE1	1:Z9:112:ILE:HD11	2.15	0.46
1:Z9:262:ILE:HG21	1:Z9:265:ILE:HD11	1.98	0.46
1:OA:104:GLN:OE1	1:OA:112:ILE:HD11	2.15	0.46
1:KE:503:GLN:HA	1:KE:506:LEU:CD1	2.46	0.46
1:UH:104:GLN:OE1	1:UH:112:ILE:HD11	2.15	0.46
1:UH:354:SER:N	1:UH:359:GLN:HE21	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:104:GLN:OE1	1:NI:112:ILE:HD11	2.15	0.46
1:NI:397:ALA:HB2	1:NI:418:ARG:HG3	1.98	0.46
1:BJ:3:PHE:HZ	1:EX:18:SER:CB	2.29	0.46
1:BJ:104:GLN:OE1	1:BJ:112:ILE:HD11	2.15	0.46
1:BJ:262:ILE:HG21	1:BJ:265:ILE:HD11	1.98	0.46
1:fK:262:ILE:HG21	1:fK:265:ILE:HD11	1.98	0.46
1:fK:503:GLN:HA	1:fK:506:LEU:CD1	2.46	0.46
1:DN:104:GLN:OE1	1:DN:112:ILE:HD11	2.15	0.46
1:TP:142:PHE:CZ	1:TP:145:LYS:HG3	2.51	0.46
1:GQ:262:ILE:HG21	1:GQ:265:ILE:HD11	1.97	0.46
1:bS:503:GLN:HA	1:bS:506:LEU:CD1	2.46	0.46
1:CT:104:GLN:OE1	1:CT:112:ILE:HD11	2.15	0.46
1:PU:191:LYS:HE2	1:PU:191:LYS:HB3	1.73	0.46
1:Y1:142:PHE:CZ	1:Y1:145:LYS:HG3	2.51	0.46
1:Q2:191:LYS:HE2	1:Q2:191:LYS:HB3	1.74	0.46
1:Q2:308:GLU:HG2	1:Q2:335:THR:CG2	2.27	0.46
1:I3:397:ALA:HB2	1:I3:418:ARG:HG3	1.98	0.46
1:S5:104:GLN:OE1	1:S5:112:ILE:HD11	2.15	0.46
1:S5:142:PHE:CZ	1:S5:145:LYS:HG3	2.51	0.46
1:e8:262:ILE:HG21	1:e8:265:ILE:HD11	1.98	0.46
1:Z9:503:GLN:HA	1:Z9:506:LEU:CD1	2.46	0.46
1:OA:83:ASP:HB2	1:OA:438:ARG:CZ	2.45	0.46
1:FB:104:GLN:OE1	1:FB:112:ILE:HD11	2.15	0.46
1:dC:262:ILE:HG21	1:dC:265:ILE:HD11	1.98	0.46
1:dC:294:LYS:HE2	1:dC:294:LYS:HB2	1.69	0.46
1:JD:142:PHE:CZ	1:JD:145:LYS:HG3	2.51	0.46
1:JD:503:GLN:HA	1:JD:506:LEU:CD1	2.46	0.46
1:LF:503:GLN:HA	1:LF:506:LEU:CD1	2.46	0.46
1:WG:445:GLN:HB3	1:XM:42:ALA:HB2	1.97	0.46
1:UH:142:PHE:CZ	1:UH:145:LYS:HG3	2.51	0.46
1:BJ:202:GLU:HB2	1:EX:268:ASN:ND2	2.25	0.46
1:fK:224:ASN:OD1	1:CT:293:GLN:HB2	2.15	0.46
1:DN:397:ALA:HB2	1:DN:418:ARG:HG3	1.98	0.46
1:TP:104:GLN:OE1	1:TP:112:ILE:HD11	2.15	0.46
1:TP:354:SER:N	1:TP:359:GLN:HE21	2.14	0.46
1:VR:83:ASP:HB2	1:VR:438:ARG:CZ	2.45	0.46
1:CT:262:ILE:HG21	1:CT:265:ILE:HD11	1.98	0.46
1:CT:503:GLN:HA	1:CT:506:LEU:CD1	2.46	0.46
1:CT:507:ARG:HB2	1:CT:507:ARG:HH11	1.77	0.46
1:aW:104:GLN:OE1	1:aW:112:ILE:HD11	2.15	0.46
1:aW:503:GLN:HA	1:aW:506:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:104:GLN:OE1	1:EX:112:ILE:HD11	2.15	0.46
1:Y1:83:ASP:HB2	1:Y1:438:ARG:CZ	2.45	0.45
1:Y1:223:LYS:HG3	1:dC:141:GLN:HG2	1.97	0.45
1:Y1:503:GLN:HA	1:Y1:506:LEU:CD1	2.46	0.45
1:Q2:224:ASN:OD1	1:TP:293:GLN:HB2	2.16	0.45
1:R4:354:SER:N	1:R4:359:GLN:HE21	2.14	0.45
1:Z9:18:SER:CB	1:WG:3:PHE:HZ	2.29	0.45
1:Z9:142:PHE:CZ	1:Z9:145:LYS:HG3	2.51	0.45
1:Z9:457:ILE:HG21	1:bS:80:LYS:CB	2.45	0.45
1:dC:507:ARG:NE	1:cV:475:ALA:HA	2.30	0.45
1:KE:142:PHE:CZ	1:KE:145:LYS:HG3	2.51	0.45
1:LF:142:PHE:CZ	1:LF:145:LYS:HG3	2.51	0.45
1:UH:18:SER:CB	1:PU:3:PHE:HZ	2.30	0.45
1:UH:148:GLN:HA	1:UH:156:SER:HB3	1.97	0.45
1:BJ:503:GLN:HA	1:BJ:506:LEU:CD1	2.46	0.45
1:MO:83:ASP:HB2	1:MO:438:ARG:CZ	2.45	0.45
1:MO:397:ALA:HB2	1:MO:418:ARG:HG3	1.98	0.45
1:VR:142:PHE:CZ	1:VR:145:LYS:HG3	2.51	0.45
1:VR:457:ILE:HG21	1:aW:80:LYS:CB	2.46	0.45
1:cV:262:ILE:HG21	1:cV:265:ILE:HD11	1.98	0.45
1:Q2:354:SER:N	1:Q2:359:GLN:HE21	2.14	0.45
1:Q2:471:ASP:CB	1:R4:4:GLN:HG2	2.46	0.45
1:I3:265:ILE:HD13	1:I3:273:ARG:CG	2.47	0.45
1:R4:142:PHE:CZ	1:R4:145:LYS:HG3	2.51	0.45
1:S5:148:GLN:HA	1:S5:156:SER:HB3	1.97	0.45
1:g6:503:GLN:HA	1:g6:506:LEU:CD1	2.46	0.45
1:FB:308:GLU:HG2	1:FB:335:THR:CG2	2.27	0.45
1:LF:25:LEU:HG	1:LF:484:ASN:HB3	1.98	0.45
1:WG:83:ASP:HB2	1:WG:438:ARG:CZ	2.45	0.45
1:WG:142:PHE:CZ	1:WG:145:LYS:HG3	2.51	0.45
1:NI:83:ASP:HB2	1:NI:438:ARG:CZ	2.46	0.45
1:BJ:507:ARG:HB2	1:BJ:507:ARG:HH11	1.78	0.45
1:HL:262:ILE:HG21	1:HL:265:ILE:HD11	1.98	0.45
1:HL:397:ALA:HB2	1:HL:418:ARG:HG3	1.98	0.45
1:XM:83:ASP:HB2	1:XM:438:ARG:CZ	2.45	0.45
1:XM:417:LEU:HD11	1:XM:421:MET:CE	2.46	0.45
1:DN:268:ASN:ND2	1:CT:202:GLU:HB2	2.25	0.45
1:TP:148:GLN:HA	1:TP:156:SER:HB3	1.97	0.45
1:GQ:82:MET:HE3	1:GQ:82:MET:HB2	1.82	0.45
1:VR:224:ASN:OD1	1:aW:293:GLN:HB2	2.16	0.45
1:bS:142:PHE:CZ	1:bS:145:LYS:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:471:ASP:CB	1:cV:4:GLN:HG2	2.45	0.45
1:cV:142:PHE:CZ	1:cV:145:LYS:HG3	2.51	0.45
1:aW:142:PHE:CZ	1:aW:145:LYS:HG3	2.51	0.45
1:Q2:503:GLN:HA	1:Q2:506:LEU:CD1	2.46	0.45
1:I3:262:ILE:HG21	1:I3:265:ILE:HD11	1.98	0.45
1:g6:475:ALA:HA	1:fK:507:ARG:HE	1.81	0.45
1:A7:507:ARG:HB2	1:A7:507:ARG:HH11	1.77	0.45
1:OA:262:ILE:HG21	1:OA:265:ILE:HD11	1.98	0.45
1:JD:25:LEU:HG	1:JD:484:ASN:HB3	1.98	0.45
1:JD:80:LYS:CB	1:HL:457:ILE:HG21	2.45	0.45
1:JD:83:ASP:HB2	1:JD:438:ARG:CZ	2.45	0.45
1:KE:83:ASP:HB2	1:KE:438:ARG:CZ	2.45	0.45
1:KE:397:ALA:HB2	1:KE:418:ARG:HG3	1.98	0.45
1:LF:141:GLN:HG2	1:GQ:223:LYS:HG3	1.97	0.45
1:LF:397:ALA:HB2	1:LF:418:ARG:HG3	1.98	0.45
1:WG:417:LEU:HD11	1:WG:421:MET:CE	2.46	0.45
1:NI:262:ILE:HG21	1:NI:265:ILE:HD11	1.97	0.45
1:BJ:4:GLN:HG2	1:CT:471:ASP:CB	2.45	0.45
1:BJ:224:ASN:OD1	1:EX:293:GLN:HB2	2.16	0.45
1:BJ:507:ARG:HE	1:CT:475:ALA:HA	1.81	0.45
1:HL:265:ILE:HD13	1:HL:273:ARG:CG	2.47	0.45
1:TP:397:ALA:HB2	1:TP:418:ARG:HG3	1.98	0.45
1:TP:503:GLN:HA	1:TP:506:LEU:CD1	2.46	0.45
1:GQ:265:ILE:HD13	1:GQ:273:ARG:CG	2.47	0.45
1:GQ:397:ALA:HB2	1:GQ:418:ARG:HG3	1.98	0.45
1:bS:262:ILE:HG21	1:bS:265:ILE:HD11	1.98	0.45
1:PU:354:SER:N	1:PU:359:GLN:HE21	2.14	0.45
1:PU:503:GLN:HA	1:PU:506:LEU:CD1	2.46	0.45
1:Q2:25:LEU:HG	1:Q2:484:ASN:HB3	1.98	0.45
1:Q2:142:PHE:CZ	1:Q2:145:LYS:HG3	2.51	0.45
1:Q2:265:ILE:HD13	1:Q2:273:ARG:CG	2.47	0.45
1:R4:265:ILE:HD13	1:R4:273:ARG:CG	2.47	0.45
1:R4:503:GLN:HA	1:R4:506:LEU:CD1	2.46	0.45
1:S5:83:ASP:HB2	1:S5:438:ARG:CZ	2.46	0.45
1:S5:503:GLN:HA	1:S5:506:LEU:CD1	2.46	0.45
1:g6:214:ILE:HG23	1:g6:234:ALA:HB1	1.99	0.45
1:A7:503:GLN:HA	1:A7:506:LEU:CD1	2.46	0.45
1:A7:507:ARG:HE	1:BJ:475:ALA:HA	1.81	0.45
1:e8:265:ILE:HD13	1:e8:273:ARG:CG	2.47	0.45
1:Z9:9:ILE:CD1	1:aW:464:ALA:HA	2.47	0.45
1:Z9:48:MET:CE	1:aW:438:ARG:HB3	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z9:83:ASP:HB2	1:Z9:438:ARG:CZ	2.46	0.45
1:OA:25:LEU:HG	1:OA:484:ASN:HB3	1.99	0.45
1:OA:142:PHE:CZ	1:OA:145:LYS:HG3	2.51	0.45
1:OA:223:LYS:HG3	1:PU:141:GLN:HG2	1.97	0.45
1:dC:142:PHE:CZ	1:dC:145:LYS:HG3	2.51	0.45
1:JD:397:ALA:HB2	1:JD:418:ARG:HG3	1.98	0.45
1:JD:475:ALA:HA	1:KE:507:ARG:HE	1.82	0.45
1:KE:25:LEU:HG	1:KE:484:ASN:HB3	1.99	0.45
1:LF:83:ASP:HB2	1:LF:438:ARG:CZ	2.45	0.45
1:UH:503:GLN:HA	1:UH:506:LEU:CD1	2.46	0.45
1:NI:142:PHE:CZ	1:NI:145:LYS:HG3	2.51	0.45
1:NI:265:ILE:HD13	1:NI:273:ARG:CG	2.47	0.45
1:NI:457:ILE:HG21	1:PU:80:LYS:CB	2.45	0.45
1:NI:475:ALA:HA	1:MO:507:ARG:NE	2.31	0.45
1:fK:188:LEU:HD12	1:fK:188:LEU:O	2.17	0.45
1:HL:293:GLN:HB2	1:EX:224:ASN:OD1	2.16	0.45
1:XM:142:PHE:CZ	1:XM:145:LYS:HG3	2.51	0.45
1:XM:265:ILE:HD13	1:XM:273:ARG:CG	2.47	0.45
1:MO:265:ILE:HD13	1:MO:273:ARG:CG	2.47	0.45
1:TP:83:ASP:HB2	1:TP:438:ARG:CZ	2.45	0.45
1:VR:417:LEU:HD11	1:VR:421:MET:CE	2.46	0.45
1:bS:214:ILE:HG23	1:bS:234:ALA:HB1	1.99	0.45
1:PU:265:ILE:HD13	1:PU:273:ARG:CG	2.47	0.45
1:Y1:254:LEU:HA	1:Y1:309:ILE:HD12	1.99	0.45
1:Y1:397:ALA:HB2	1:Y1:418:ARG:HG3	1.98	0.45
1:Y1:507:ARG:NE	1:Z9:475:ALA:HA	2.31	0.45
1:Q2:475:ALA:HA	1:R4:507:ARG:HE	1.82	0.45
1:R4:308:GLU:HG2	1:R4:335:THR:CG2	2.27	0.45
1:S5:397:ALA:HB2	1:S5:418:ARG:HG3	1.98	0.45
1:g6:188:LEU:O	1:g6:188:LEU:HD12	2.17	0.45
1:g6:265:ILE:HD13	1:g6:273:ARG:CG	2.47	0.45
1:A7:142:PHE:CZ	1:A7:145:LYS:HG3	2.51	0.45
1:e8:188:LEU:O	1:e8:188:LEU:HD12	2.17	0.45
1:e8:214:ILE:HG23	1:e8:234:ALA:HB1	1.99	0.45
1:Z9:141:GLN:HG2	1:VR:223:LYS:HG3	1.97	0.45
1:Z9:254:LEU:HA	1:Z9:309:ILE:HD12	1.99	0.45
1:Z9:397:ALA:HB2	1:Z9:418:ARG:HG3	1.98	0.45
1:OA:18:SER:CB	1:JD:3:PHE:HZ	2.29	0.45
1:OA:265:ILE:HD13	1:OA:273:ARG:CG	2.47	0.45
1:dC:214:ILE:HG23	1:dC:234:ALA:HB1	1.99	0.45
1:dC:265:ILE:HD13	1:dC:273:ARG:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:265:ILE:HD13	1:WG:273:ARG:CG	2.47	0.45
1:WG:475:ALA:HA	1:XM:507:ARG:HE	1.81	0.45
1:UH:397:ALA:HB2	1:UH:418:ARG:HG3	1.98	0.45
1:NI:148:GLN:HA	1:NI:156:SER:HB3	1.97	0.45
1:BJ:214:ILE:HG23	1:BJ:234:ALA:HB1	1.99	0.45
1:fK:214:ILE:HG23	1:fK:234:ALA:HB1	1.99	0.45
1:fK:265:ILE:HD13	1:fK:273:ARG:CG	2.47	0.45
1:XM:503:GLN:HA	1:XM:506:LEU:CD1	2.46	0.45
1:MO:142:PHE:CZ	1:MO:145:LYS:HG3	2.51	0.45
1:MO:148:GLN:HA	1:MO:156:SER:HB3	1.97	0.45
1:MO:354:SER:N	1:MO:359:GLN:HE21	2.14	0.45
1:VR:503:GLN:HA	1:VR:506:LEU:CD1	2.46	0.45
1:bS:254:LEU:HA	1:bS:309:ILE:HD12	1.99	0.45
1:CT:142:PHE:CZ	1:CT:145:LYS:HG3	2.51	0.45
1:PU:142:PHE:CZ	1:PU:145:LYS:HG3	2.51	0.45
1:cV:214:ILE:HG23	1:cV:234:ALA:HB1	1.99	0.45
1:cV:265:ILE:HD13	1:cV:273:ARG:CG	2.47	0.45
1:aW:83:ASP:HB2	1:aW:438:ARG:CZ	2.45	0.45
1:aW:254:LEU:HA	1:aW:309:ILE:HD12	1.99	0.45
1:aW:397:ALA:HB2	1:aW:418:ARG:HG3	1.98	0.45
1:Y1:148:GLN:HA	1:Y1:156:SER:HB3	1.97	0.45
1:Y1:417:LEU:HD11	1:Y1:421:MET:CE	2.46	0.45
1:Q2:200:THR:HB	1:TP:294:LYS:HD3	1.98	0.45
1:Q2:457:ILE:HG21	1:TP:80:LYS:CB	2.46	0.45
1:R4:25:LEU:HG	1:R4:484:ASN:HB3	1.99	0.45
1:A7:245:GLN:O	1:A7:320:ALA:HA	2.17	0.45
1:OA:148:GLN:HA	1:OA:156:SER:HB3	1.97	0.45
1:FB:265:ILE:HD13	1:FB:273:ARG:CG	2.47	0.45
1:dC:254:LEU:HA	1:dC:309:ILE:HD12	1.99	0.45
1:dC:507:ARG:HB2	1:dC:507:ARG:HH11	1.77	0.45
1:JD:265:ILE:HD13	1:JD:273:ARG:CG	2.47	0.45
1:KE:265:ILE:HD13	1:KE:273:ARG:CG	2.47	0.45
1:LF:265:ILE:HD13	1:LF:273:ARG:CG	2.47	0.45
1:WG:503:GLN:HA	1:WG:506:LEU:CD1	2.46	0.45
1:UH:83:ASP:HB2	1:UH:438:ARG:CZ	2.46	0.45
1:UH:475:ALA:HA	1:TP:507:ARG:NE	2.32	0.45
1:NI:25:LEU:HG	1:NI:484:ASN:HB3	1.99	0.45
1:NI:354:SER:N	1:NI:359:GLN:HE21	2.14	0.45
1:NI:471:ASP:CB	1:MO:4:GLN:HG2	2.43	0.45
1:BJ:142:PHE:CZ	1:BJ:145:LYS:HG3	2.51	0.45
1:BJ:245:GLN:O	1:BJ:320:ALA:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:82:MET:HE3	1:HL:82:MET:HB2	1.82	0.45
1:HL:245:GLN:O	1:HL:320:ALA:HA	2.17	0.45
1:MO:25:LEU:HG	1:MO:484:ASN:HB3	1.99	0.45
1:GQ:245:GLN:O	1:GQ:320:ALA:HA	2.17	0.45
1:VR:148:GLN:HA	1:VR:156:SER:HB3	1.97	0.45
1:VR:265:ILE:HD13	1:VR:273:ARG:CG	2.47	0.45
1:bS:265:ILE:HD13	1:bS:273:ARG:CG	2.47	0.45
1:CT:214:ILE:HG23	1:CT:234:ALA:HB1	1.99	0.45
1:CT:245:GLN:O	1:CT:320:ALA:HA	2.17	0.45
1:PU:25:LEU:HG	1:PU:484:ASN:HB3	1.98	0.45
1:cV:254:LEU:HA	1:cV:309:ILE:HD12	1.99	0.45
1:aW:265:ILE:HD13	1:aW:273:ARG:CG	2.47	0.45
1:Y1:245:GLN:O	1:Y1:320:ALA:HA	2.17	0.45
1:Q2:9:ILE:CD1	1:PU:464:ALA:HA	2.47	0.45
1:Q2:438:ARG:HB3	1:R4:48:MET:CE	2.44	0.45
1:I3:245:GLN:O	1:I3:320:ALA:HA	2.17	0.45
1:R4:83:ASP:HB2	1:R4:438:ARG:CZ	2.46	0.45
1:S5:25:LEU:HG	1:S5:484:ASN:HB3	1.98	0.45
1:A7:214:ILE:HG23	1:A7:234:ALA:HB1	1.99	0.45
1:e8:141:GLN:HG2	1:cV:223:LYS:HG3	1.98	0.45
1:Z9:82:MET:CE	1:Z9:441:LEU:HD12	2.20	0.45
1:Z9:214:ILE:HG23	1:Z9:234:ALA:HB1	1.99	0.45
1:Z9:265:ILE:HD13	1:Z9:273:ARG:CG	2.47	0.45
1:OA:354:SER:N	1:OA:359:GLN:HE21	2.14	0.45
1:OA:503:GLN:HA	1:OA:506:LEU:CD1	2.46	0.45
1:FB:188:LEU:O	1:FB:188:LEU:HD12	2.17	0.45
1:WG:148:GLN:HA	1:WG:156:SER:HB3	1.97	0.45
1:UH:25:LEU:HG	1:UH:484:ASN:HB3	1.98	0.45
1:NI:503:GLN:HA	1:NI:506:LEU:CD1	2.46	0.45
1:DN:142:PHE:CZ	1:DN:145:LYS:HG3	2.51	0.45
1:MO:262:ILE:HG21	1:MO:265:ILE:HD11	1.98	0.45
1:TP:265:ILE:HD13	1:TP:273:ARG:CG	2.47	0.45
1:bS:441:LEU:HD23	1:bS:441:LEU:HA	1.82	0.45
1:CT:265:ILE:HD13	1:CT:273:ARG:CG	2.47	0.45
1:aW:82:MET:CE	1:aW:441:LEU:HD12	2.20	0.45
1:aW:148:GLN:HA	1:aW:156:SER:HB3	1.97	0.45
1:EX:188:LEU:HD12	1:EX:188:LEU:O	2.17	0.45
1:EX:224:ASN:O	1:EX:228:THR:HG23	2.17	0.45
1:Y1:82:MET:CE	1:Y1:441:LEU:HD12	2.20	0.45
1:Y1:214:ILE:HG23	1:Y1:234:ALA:HB1	1.99	0.45
1:Y1:265:ILE:HD13	1:Y1:273:ARG:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:83:ASP:HB2	1:Q2:438:ARG:CZ	2.45	0.45
1:I3:82:MET:HE3	1:I3:82:MET:HB2	1.82	0.45
1:A7:181:THR:HA	1:A7:335:THR:O	2.17	0.45
1:FB:224:ASN:OD1	1:GQ:293:GLN:HB2	2.16	0.45
1:dC:224:ASN:O	1:dC:228:THR:HG23	2.17	0.45
1:JD:294:LYS:HE2	1:JD:294:LYS:HB2	1.69	0.45
1:KE:268:ASN:ND2	1:GQ:202:GLU:HB2	2.26	0.45
1:KE:294:LYS:HE2	1:KE:294:LYS:HB2	1.69	0.45
1:LF:224:ASN:O	1:LF:228:THR:HG23	2.17	0.45
1:LF:458:THR:O	1:LF:462:VAL:HG23	2.17	0.45
1:WG:245:GLN:O	1:WG:320:ALA:HA	2.17	0.45
1:UH:265:ILE:HD13	1:UH:273:ARG:CG	2.47	0.45
1:BJ:181:THR:HA	1:BJ:335:THR:O	2.17	0.45
1:fK:181:THR:HA	1:fK:335:THR:O	2.17	0.45
1:fK:200:THR:HB	1:CT:294:LYS:HD3	1.98	0.45
1:XM:245:GLN:O	1:XM:320:ALA:HA	2.17	0.45
1:DN:188:LEU:HD12	1:DN:188:LEU:O	2.17	0.45
1:DN:293:GLN:HB2	1:CT:224:ASN:OD1	2.17	0.45
1:TP:25:LEU:HG	1:TP:484:ASN:HB3	1.99	0.45
1:bS:245:GLN:O	1:bS:320:ALA:HA	2.17	0.45
1:aW:214:ILE:HG23	1:aW:234:ALA:HB1	1.99	0.45
1:EX:265:ILE:HD13	1:EX:273:ARG:CG	2.47	0.45
1:Y1:224:ASN:O	1:Y1:228:THR:HG23	2.17	0.45
1:Q2:141:GLN:HG2	1:NI:223:LYS:HG3	1.97	0.45
1:I3:475:ALA:HA	1:HL:507:ARG:HE	1.82	0.45
1:R4:397:ALA:HB2	1:R4:418:ARG:HG3	1.98	0.45
1:S5:265:ILE:HD13	1:S5:273:ARG:CG	2.47	0.45
1:g6:181:THR:HA	1:g6:335:THR:O	2.17	0.45
1:g6:224:ASN:O	1:g6:228:THR:HG23	2.17	0.45
1:A7:281:VAL:HG23	1:A7:285:THR:CG2	2.47	0.45
1:Z9:148:GLN:HA	1:Z9:156:SER:HB3	1.97	0.45
1:Z9:245:GLN:O	1:Z9:320:ALA:HA	2.17	0.45
1:Z9:417:LEU:HD11	1:Z9:421:MET:CE	2.46	0.45
1:FB:224:ASN:O	1:FB:228:THR:HG23	2.17	0.45
1:FB:507:ARG:NE	1:EX:475:ALA:HA	2.31	0.45
1:dC:9:ILE:CD1	1:cV:464:ALA:HA	2.47	0.45
1:JD:224:ASN:O	1:JD:228:THR:HG23	2.17	0.45
1:JD:458:THR:O	1:JD:462:VAL:HG23	2.17	0.45
1:KE:224:ASN:O	1:KE:228:THR:HG23	2.17	0.45
1:KE:458:THR:O	1:KE:462:VAL:HG23	2.17	0.45
1:LF:354:SER:N	1:LF:359:GLN:HE21	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:265:ILE:HD13	1:BJ:273:ARG:CG	2.47	0.45
1:BJ:458:THR:O	1:BJ:462:VAL:HG23	2.17	0.45
1:DN:265:ILE:HD13	1:DN:273:ARG:CG	2.47	0.45
1:GQ:417:LEU:HD11	1:GQ:421:MET:CE	2.46	0.45
1:VR:200:THR:HB	1:aW:294:LYS:HD3	1.98	0.45
1:VR:254:LEU:HA	1:VR:309:ILE:HD12	1.99	0.45
1:bS:475:ALA:HA	1:cV:507:ARG:HE	1.81	0.45
1:CT:181:THR:HA	1:CT:335:THR:O	2.17	0.45
1:PU:188:LEU:HD12	1:PU:188:LEU:O	2.17	0.45
1:cV:507:ARG:HB2	1:cV:507:ARG:HH11	1.78	0.45
1:aW:224:ASN:O	1:aW:228:THR:HG23	2.17	0.45
1:aW:245:GLN:O	1:aW:320:ALA:HA	2.17	0.45
1:aW:417:LEU:HD11	1:aW:421:MET:CE	2.46	0.45
1:EX:142:PHE:CZ	1:EX:145:LYS:HG3	2.51	0.45
1:EX:458:THR:O	1:EX:462:VAL:HG23	2.17	0.45
1:Q2:188:LEU:HD12	1:Q2:188:LEU:O	2.17	0.45
1:Q2:397:ALA:HB2	1:Q2:418:ARG:HG3	1.98	0.45
1:R4:188:LEU:HD12	1:R4:188:LEU:O	2.17	0.45
1:R4:224:ASN:O	1:R4:228:THR:HG23	2.17	0.45
1:S5:224:ASN:O	1:S5:228:THR:HG23	2.17	0.45
1:S5:245:GLN:O	1:S5:320:ALA:HA	2.17	0.45
1:A7:458:THR:O	1:A7:462:VAL:HG23	2.17	0.45
1:e8:181:THR:HA	1:e8:335:THR:O	2.17	0.45
1:e8:224:ASN:O	1:e8:228:THR:HG23	2.17	0.45
1:Z9:200:THR:HB	1:bS:294:LYS:HD3	1.98	0.45
1:Z9:224:ASN:O	1:Z9:228:THR:HG23	2.17	0.45
1:FB:142:PHE:CZ	1:FB:145:LYS:HG3	2.51	0.45
1:dC:417:LEU:HD11	1:dC:421:MET:CE	2.46	0.45
1:KE:239:THR:CG2	1:KE:400:ASN:HD21	2.26	0.45
1:WG:224:ASN:O	1:WG:228:THR:HG23	2.17	0.45
1:WG:254:LEU:HA	1:WG:309:ILE:HD12	1.99	0.45
1:BJ:281:VAL:HG23	1:BJ:285:THR:CG2	2.47	0.45
1:fK:224:ASN:O	1:fK:228:THR:HG23	2.17	0.45
1:HL:417:LEU:HD11	1:HL:421:MET:CE	2.46	0.45
1:XM:148:GLN:HA	1:XM:156:SER:HB3	1.97	0.45
1:XM:224:ASN:O	1:XM:228:THR:HG23	2.17	0.45
1:DN:214:ILE:HG23	1:DN:234:ALA:HB1	1.99	0.45
1:DN:224:ASN:O	1:DN:228:THR:HG23	2.17	0.45
1:DN:458:THR:O	1:DN:462:VAL:HG23	2.17	0.45
1:MO:503:GLN:HA	1:MO:506:LEU:CD1	2.46	0.45
1:GQ:25:LEU:HG	1:GQ:484:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:224:ASN:O	1:VR:228:THR:HG23	2.17	0.45
1:VR:245:GLN:O	1:VR:320:ALA:HA	2.17	0.45
1:bS:224:ASN:O	1:bS:228:THR:HG23	2.17	0.45
1:bS:281:VAL:HG23	1:bS:285:THR:CG2	2.47	0.45
1:bS:464:ALA:HA	1:cV:9:ILE:CD1	2.47	0.45
1:CT:397:ALA:HB2	1:CT:418:ARG:HG3	1.98	0.45
1:CT:458:THR:O	1:CT:462:VAL:HG23	2.17	0.45
1:PU:83:ASP:HB2	1:PU:438:ARG:CZ	2.45	0.45
1:cV:224:ASN:O	1:cV:228:THR:HG23	2.17	0.45
1:cV:245:GLN:O	1:cV:320:ALA:HA	2.17	0.45
1:EX:214:ILE:HG23	1:EX:234:ALA:HB1	1.99	0.45
1:Q2:48:MET:CE	1:PU:438:ARG:HB3	2.44	0.44
1:Q2:181:THR:HA	1:Q2:335:THR:O	2.17	0.44
1:I3:25:LEU:HG	1:I3:484:ASN:HB3	1.99	0.44
1:R4:181:THR:HA	1:R4:335:THR:O	2.17	0.44
1:g6:254:LEU:HA	1:g6:309:ILE:HD12	1.99	0.44
1:A7:14:ALA:CB	1:A7:495:MET:HG2	2.48	0.44
1:A7:265:ILE:HD13	1:A7:273:ARG:CG	2.47	0.44
1:e8:142:PHE:CZ	1:e8:145:LYS:HG3	2.51	0.44
1:e8:254:LEU:HA	1:e8:309:ILE:HD12	1.99	0.44
1:OA:245:GLN:O	1:OA:320:ALA:HA	2.17	0.44
1:FB:214:ILE:HG23	1:FB:234:ALA:HB1	1.99	0.44
1:FB:458:THR:O	1:FB:462:VAL:HG23	2.17	0.44
1:dC:245:GLN:O	1:dC:320:ALA:HA	2.17	0.44
1:dC:281:VAL:HG23	1:dC:285:THR:CG2	2.47	0.44
1:dC:458:THR:O	1:dC:462:VAL:HG23	2.17	0.44
1:KE:354:SER:N	1:KE:359:GLN:HE21	2.14	0.44
1:UH:191:LYS:HE2	1:UH:191:LYS:HB3	1.74	0.44
1:NI:254:LEU:HA	1:NI:309:ILE:HD12	1.99	0.44
1:BJ:14:ALA:CB	1:BJ:495:MET:HG2	2.48	0.44
1:BJ:397:ALA:HB2	1:BJ:418:ARG:HG3	1.98	0.44
1:fK:142:PHE:CZ	1:fK:145:LYS:HG3	2.51	0.44
1:fK:254:LEU:HA	1:fK:309:ILE:HD12	1.99	0.44
1:fK:457:ILE:HD13	1:fK:457:ILE:HA	1.86	0.44
1:HL:25:LEU:HG	1:HL:484:ASN:HB3	1.99	0.44
1:DN:82:MET:CE	1:DN:441:LEU:HD12	2.20	0.44
1:MO:245:GLN:O	1:MO:320:ALA:HA	2.17	0.44
1:TP:191:LYS:HE2	1:TP:191:LYS:HB3	1.74	0.44
1:TP:224:ASN:O	1:TP:228:THR:HG23	2.17	0.44
1:VR:214:ILE:HG23	1:VR:234:ALA:HB1	1.99	0.44
1:bS:14:ALA:CB	1:bS:495:MET:HG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:458:THR:O	1:bS:462:VAL:HG23	2.17	0.44
1:CT:281:VAL:HG23	1:CT:285:THR:CG2	2.47	0.44
1:CT:308:GLU:HG2	1:CT:335:THR:CG2	2.27	0.44
1:cV:281:VAL:HG23	1:cV:285:THR:CG2	2.47	0.44
1:cV:417:LEU:HD11	1:cV:421:MET:CE	2.46	0.44
1:cV:458:THR:O	1:cV:462:VAL:HG23	2.17	0.44
1:EX:82:MET:CE	1:EX:441:LEU:HD12	2.20	0.44
1:Q2:148:GLN:HA	1:Q2:156:SER:HB3	1.97	0.44
1:Q2:224:ASN:O	1:Q2:228:THR:HG23	2.17	0.44
1:I3:417:LEU:HD11	1:I3:421:MET:CE	2.46	0.44
1:R4:245:GLN:O	1:R4:320:ALA:HA	2.17	0.44
1:g6:142:PHE:CZ	1:g6:145:LYS:HG3	2.51	0.44
1:A7:417:LEU:HD11	1:A7:421:MET:CE	2.46	0.44
1:e8:138:LEU:HB3	1:e8:164:THR:HG1	1.81	0.44
1:e8:245:GLN:O	1:e8:320:ALA:HA	2.17	0.44
1:e8:417:LEU:HD11	1:e8:421:MET:CE	2.46	0.44
1:OA:254:LEU:HA	1:OA:309:ILE:HD12	1.99	0.44
1:FB:281:VAL:HG23	1:FB:285:THR:CG2	2.47	0.44
1:FB:417:LEU:HD11	1:FB:421:MET:CE	2.46	0.44
1:FB:441:LEU:HD23	1:FB:441:LEU:HA	1.81	0.44
1:dC:14:ALA:CB	1:dC:495:MET:HG2	2.48	0.44
1:dC:188:LEU:HD12	1:dC:188:LEU:O	2.17	0.44
1:JD:354:SER:N	1:JD:359:GLN:HE21	2.14	0.44
1:KE:254:LEU:HA	1:KE:309:ILE:HD12	1.99	0.44
1:KE:455:ILE:HD13	1:KE:455:ILE:HA	1.88	0.44
1:KE:457:ILE:HD13	1:KE:457:ILE:HA	1.86	0.44
1:LF:239:THR:CG2	1:LF:400:ASN:HD21	2.26	0.44
1:LF:245:GLN:O	1:LF:320:ALA:HA	2.17	0.44
1:LF:294:LYS:HE2	1:LF:294:LYS:HB2	1.69	0.44
1:NI:245:GLN:O	1:NI:320:ALA:HA	2.17	0.44
1:fK:245:GLN:O	1:fK:320:ALA:HA	2.17	0.44
1:HL:142:PHE:CZ	1:HL:145:LYS:HG3	2.51	0.44
1:HL:254:LEU:HA	1:HL:309:ILE:HD12	1.99	0.44
1:XM:181:THR:HA	1:XM:335:THR:O	2.17	0.44
1:XM:214:ILE:HG23	1:XM:234:ALA:HB1	1.99	0.44
1:TP:3:PHE:HZ	1:VR:18:SER:CB	2.29	0.44
1:TP:245:GLN:O	1:TP:320:ALA:HA	2.17	0.44
1:GQ:142:PHE:CZ	1:GQ:145:LYS:HG3	2.51	0.44
1:bS:417:LEU:HD11	1:bS:421:MET:CE	2.46	0.44
1:bS:507:ARG:HB2	1:bS:507:ARG:HH11	1.78	0.44
1:CT:14:ALA:CB	1:CT:495:MET:HG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:148:GLN:HA	1:PU:156:SER:HB3	1.97	0.44
1:PU:181:THR:HA	1:PU:335:THR:O	2.17	0.44
1:PU:224:ASN:O	1:PU:228:THR:HG23	2.17	0.44
1:PU:397:ALA:HB2	1:PU:418:ARG:HG3	1.98	0.44
1:cV:14:ALA:CB	1:cV:495:MET:HG2	2.48	0.44
1:Q2:214:ILE:HG23	1:Q2:234:ALA:HB1	1.99	0.44
1:Q2:245:GLN:O	1:Q2:320:ALA:HA	2.17	0.44
1:Q2:268:ASN:ND2	1:MO:202:GLU:HB2	2.28	0.44
1:Q2:281:VAL:HG23	1:Q2:285:THR:CG2	2.47	0.44
1:R4:14:ALA:CB	1:R4:495:MET:HG2	2.48	0.44
1:R4:281:VAL:HG23	1:R4:285:THR:CG2	2.47	0.44
1:g6:245:GLN:O	1:g6:320:ALA:HA	2.17	0.44
1:A7:397:ALA:HB2	1:A7:418:ARG:HG3	1.98	0.44
1:e8:321:LEU:HB3	1:e8:330:LEU:HD12	2.00	0.44
1:OA:239:THR:CG2	1:OA:400:ASN:HD21	2.26	0.44
1:FB:25:LEU:HG	1:FB:484:ASN:HB3	1.99	0.44
1:FB:82:MET:CE	1:FB:441:LEU:HD12	2.20	0.44
1:FB:181:THR:HA	1:FB:335:THR:O	2.17	0.44
1:JD:254:LEU:HA	1:JD:309:ILE:HD12	1.99	0.44
1:WG:181:THR:HA	1:WG:335:THR:O	2.17	0.44
1:WG:214:ILE:HG23	1:WG:234:ALA:HB1	1.99	0.44
1:UH:224:ASN:O	1:UH:228:THR:HG23	2.17	0.44
1:UH:245:GLN:O	1:UH:320:ALA:HA	2.17	0.44
1:fK:457:ILE:HG21	1:CT:80:LYS:CB	2.46	0.44
1:HL:14:ALA:CB	1:HL:495:MET:HG2	2.47	0.44
1:HL:80:LYS:CB	1:EX:457:ILE:HG21	2.47	0.44
1:XM:14:ALA:CB	1:XM:495:MET:HG2	2.47	0.44
1:XM:254:LEU:HA	1:XM:309:ILE:HD12	1.99	0.44
1:XM:458:THR:O	1:XM:462:VAL:HG23	2.17	0.44
1:DN:25:LEU:HG	1:DN:484:ASN:HB3	1.99	0.44
1:DN:281:VAL:HG23	1:DN:285:THR:CG2	2.47	0.44
1:DN:417:LEU:HD11	1:DN:421:MET:CE	2.46	0.44
1:MO:254:LEU:HA	1:MO:309:ILE:HD12	1.99	0.44
1:GQ:254:LEU:HA	1:GQ:309:ILE:HD12	1.99	0.44
1:GQ:354:SER:N	1:GQ:359:GLN:HE21	2.14	0.44
1:VR:3:PHE:HZ	1:aW:18:SER:CB	2.30	0.44
1:VR:14:ALA:CB	1:VR:495:MET:HG2	2.48	0.44
1:VR:237:ILE:HB	1:VR:399:TYR:HB3	1.99	0.44
1:aW:188:LEU:HD12	1:aW:188:LEU:O	2.17	0.44
1:EX:25:LEU:HG	1:EX:484:ASN:HB3	1.99	0.44
1:EX:281:VAL:HG23	1:EX:285:THR:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:417:LEU:HD11	1:EX:421:MET:CE	2.46	0.44
1:Y1:188:LEU:O	1:Y1:188:LEU:HD12	2.17	0.44
1:Y1:481:PHE:CE2	1:XM:497:GLN:HG3	2.53	0.44
1:Q2:14:ALA:CB	1:Q2:495:MET:HG2	2.48	0.44
1:I3:14:ALA:CB	1:I3:495:MET:HG2	2.48	0.44
1:R4:148:GLN:HA	1:R4:156:SER:HB3	1.97	0.44
1:S5:191:LYS:HE2	1:S5:191:LYS:HB3	1.74	0.44
1:g6:464:ALA:HA	1:fK:9:ILE:CD1	2.46	0.44
1:A7:188:LEU:HD12	1:A7:188:LEU:O	2.17	0.44
1:A7:308:GLU:HG2	1:A7:335:THR:CG2	2.27	0.44
1:e8:507:ARG:HE	1:fK:475:ALA:HA	1.82	0.44
1:Z9:188:LEU:HD12	1:Z9:188:LEU:O	2.17	0.44
1:OA:224:ASN:O	1:OA:228:THR:HG23	2.17	0.44
1:dC:25:LEU:HG	1:dC:484:ASN:HB3	1.98	0.44
1:dC:397:ALA:HB2	1:dC:418:ARG:HG3	1.98	0.44
1:KE:141:GLN:HG2	1:HL:223:LYS:CG	2.48	0.44
1:WG:14:ALA:CB	1:WG:495:MET:HG2	2.48	0.44
1:WG:237:ILE:HB	1:WG:399:TYR:HB3	1.99	0.44
1:NI:224:ASN:O	1:NI:228:THR:HG23	2.17	0.44
1:BJ:417:LEU:HD11	1:BJ:421:MET:CE	2.46	0.44
1:fK:321:LEU:HB3	1:fK:330:LEU:HD12	2.00	0.44
1:XM:25:LEU:HG	1:XM:484:ASN:HB3	1.98	0.44
1:XM:237:ILE:HB	1:XM:399:TYR:HB3	1.99	0.44
1:DN:181:THR:HA	1:DN:335:THR:O	2.17	0.44
1:DN:438:ARG:HB3	1:EX:48:MET:CE	2.45	0.44
1:MO:224:ASN:O	1:MO:228:THR:HG23	2.17	0.44
1:GQ:14:ALA:CB	1:GQ:495:MET:HG2	2.48	0.44
1:VR:181:THR:HA	1:VR:335:THR:O	2.17	0.44
1:bS:25:LEU:HG	1:bS:484:ASN:HB3	1.99	0.44
1:bS:181:THR:HA	1:bS:335:THR:O	2.17	0.44
1:bS:321:LEU:HB3	1:bS:330:LEU:HD12	2.00	0.44
1:CT:254:LEU:HA	1:CT:309:ILE:HD12	1.99	0.44
1:PU:281:VAL:HG23	1:PU:285:THR:CG2	2.47	0.44
1:cV:25:LEU:HG	1:cV:484:ASN:HB3	1.99	0.44
1:cV:181:THR:HA	1:cV:335:THR:O	2.17	0.44
1:cV:188:LEU:O	1:cV:188:LEU:HD12	2.17	0.44
1:cV:237:ILE:HB	1:cV:399:TYR:HB3	1.99	0.44
1:cV:321:LEU:HB3	1:cV:330:LEU:HD12	2.00	0.44
1:aW:237:ILE:HB	1:aW:399:TYR:HB3	1.99	0.44
1:Y1:281:VAL:HG23	1:Y1:285:THR:CG2	2.47	0.44
1:Y1:458:THR:O	1:Y1:462:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:223:LYS:CG	1:S5:141:GLN:HG2	2.48	0.44
1:Q2:254:LEU:HA	1:Q2:309:ILE:HD12	1.99	0.44
1:I3:37:ARG:HB2	1:I3:472:VAL:HA	2.00	0.44
1:I3:142:PHE:CZ	1:I3:145:LYS:HG3	2.51	0.44
1:I3:214:ILE:HG23	1:I3:234:ALA:HB1	1.99	0.44
1:I3:254:LEU:HA	1:I3:309:ILE:HD12	1.99	0.44
1:R4:141:GLN:HG2	1:MO:223:LYS:HG3	1.98	0.44
1:S5:458:THR:O	1:S5:462:VAL:HG23	2.17	0.44
1:g6:76:GLN:HG3	1:g6:445:GLN:OE1	2.18	0.44
1:g6:321:LEU:HB3	1:g6:330:LEU:HD12	2.00	0.44
1:g6:457:ILE:HD13	1:g6:457:ILE:HA	1.86	0.44
1:A7:224:ASN:O	1:A7:228:THR:HG23	2.17	0.44
1:A7:321:LEU:HB3	1:A7:330:LEU:HD12	2.00	0.44
1:e8:224:ASN:OD1	1:BJ:293:GLN:HB2	2.17	0.44
1:e8:281:VAL:HG23	1:e8:285:THR:CG2	2.47	0.44
1:Z9:237:ILE:HB	1:Z9:399:TYR:HB3	1.99	0.44
1:Z9:281:VAL:HG23	1:Z9:285:THR:CG2	2.47	0.44
1:Z9:293:GLN:HB2	1:WG:224:ASN:OD1	2.17	0.44
1:FB:245:GLN:O	1:FB:320:ALA:HA	2.17	0.44
1:dC:181:THR:HA	1:dC:335:THR:O	2.17	0.44
1:dC:237:ILE:HB	1:dC:399:TYR:HB3	2.00	0.44
1:JD:14:ALA:CB	1:JD:495:MET:HG2	2.47	0.44
1:JD:281:VAL:HG23	1:JD:285:THR:CG2	2.47	0.44
1:KE:245:GLN:O	1:KE:320:ALA:HA	2.17	0.44
1:LF:254:LEU:HA	1:LF:309:ILE:HD12	1.99	0.44
1:LF:281:VAL:HG23	1:LF:285:THR:CG2	2.47	0.44
1:WG:458:THR:O	1:WG:462:VAL:HG23	2.17	0.44
1:UH:237:ILE:HB	1:UH:399:TYR:HB3	1.99	0.44
1:NI:239:THR:CG2	1:NI:400:ASN:HD21	2.26	0.44
1:BJ:308:GLU:HG2	1:BJ:335:THR:CG2	2.27	0.44
1:BJ:321:LEU:HB3	1:BJ:330:LEU:HD12	2.00	0.44
1:fK:281:VAL:HG23	1:fK:285:THR:CG2	2.47	0.44
1:fK:417:LEU:HD11	1:fK:421:MET:CE	2.46	0.44
1:HL:37:ARG:HB2	1:HL:472:VAL:HA	2.00	0.44
1:XM:397:ALA:HB2	1:XM:418:ARG:HG3	1.98	0.44
1:DN:321:LEU:HB3	1:DN:330:LEU:HD12	2.00	0.44
1:TP:254:LEU:HA	1:TP:309:ILE:HD12	1.99	0.44
1:TP:458:THR:O	1:TP:462:VAL:HG23	2.17	0.44
1:bS:188:LEU:HD12	1:bS:188:LEU:O	2.17	0.44
1:bS:237:ILE:HB	1:bS:399:TYR:HB3	1.99	0.44
1:CT:417:LEU:HD11	1:CT:421:MET:CE	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:14:ALA:CB	1:PU:495:MET:HG2	2.48	0.44
1:EX:181:THR:HA	1:EX:335:THR:O	2.17	0.44
1:EX:254:LEU:HA	1:EX:309:ILE:HD12	1.99	0.44
1:Y1:141:GLN:HG2	1:WG:223:LYS:CG	2.48	0.44
1:Y1:237:ILE:HB	1:Y1:399:TYR:HB3	1.99	0.44
1:Q2:458:THR:O	1:Q2:462:VAL:HG23	2.17	0.44
1:R4:214:ILE:HG23	1:R4:234:ALA:HB1	1.99	0.44
1:R4:458:THR:O	1:R4:462:VAL:HG23	2.17	0.44
1:S5:254:LEU:HA	1:S5:309:ILE:HD12	1.99	0.44
1:g6:281:VAL:HG23	1:g6:285:THR:CG2	2.47	0.44
1:g6:417:LEU:HD11	1:g6:421:MET:CE	2.46	0.44
1:A7:254:LEU:HA	1:A7:309:ILE:HD12	1.99	0.44
1:e8:76:GLN:HG3	1:e8:445:GLN:OE1	2.18	0.44
1:e8:237:ILE:HB	1:e8:399:TYR:HB3	1.99	0.44
1:OA:214:ILE:HG23	1:OA:234:ALA:HB1	1.99	0.44
1:FB:354:SER:N	1:FB:359:GLN:HE21	2.14	0.44
1:dC:321:LEU:HB3	1:dC:330:LEU:HD12	2.00	0.44
1:JD:245:GLN:O	1:JD:320:ALA:HA	2.17	0.44
1:JD:455:ILE:HD13	1:JD:455:ILE:HA	1.88	0.44
1:JD:457:ILE:HD13	1:JD:457:ILE:HA	1.86	0.44
1:KE:281:VAL:HG23	1:KE:285:THR:CG2	2.48	0.44
1:KE:293:GLN:HB2	1:GQ:224:ASN:OD1	2.17	0.44
1:WG:25:LEU:HG	1:WG:484:ASN:HB3	1.99	0.44
1:UH:178:ALA:HB3	1:UH:372:GLN:HG2	2.00	0.44
1:NI:475:ALA:HA	1:MO:507:ARG:HE	1.83	0.44
1:NI:501:VAL:O	1:NI:504:ASN:ND2	2.51	0.44
1:BJ:188:LEU:HD12	1:BJ:188:LEU:O	2.17	0.44
1:BJ:254:LEU:HA	1:BJ:309:ILE:HD12	1.99	0.44
1:HL:354:SER:N	1:HL:359:GLN:HE21	2.14	0.44
1:XM:188:LEU:HD12	1:XM:188:LEU:O	2.17	0.44
1:DN:14:ALA:CB	1:DN:495:MET:HG2	2.48	0.44
1:DN:80:LYS:CB	1:CT:457:ILE:HG21	2.48	0.44
1:DN:457:ILE:CD1	1:EX:16:VAL:HG11	2.47	0.44
1:DN:501:VAL:O	1:DN:504:ASN:ND2	2.51	0.44
1:MO:188:LEU:HD12	1:MO:188:LEU:O	2.17	0.44
1:TP:224:ASN:OD1	1:VR:293:GLN:HB2	2.17	0.44
1:TP:237:ILE:HB	1:TP:399:TYR:HB3	1.99	0.44
1:GQ:37:ARG:HB2	1:GQ:472:VAL:HA	2.00	0.44
1:GQ:214:ILE:HG23	1:GQ:234:ALA:HB1	1.99	0.44
1:GQ:281:VAL:HG23	1:GQ:285:THR:CG2	2.47	0.44
1:VR:178:ALA:HB3	1:VR:372:GLN:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:458:THR:O	1:VR:462:VAL:HG23	2.17	0.44
1:CT:25:LEU:HG	1:CT:484:ASN:HB3	1.99	0.44
1:CT:76:GLN:HG3	1:CT:445:GLN:OE1	2.18	0.44
1:CT:321:LEU:HB3	1:CT:330:LEU:HD12	2.00	0.44
1:PU:214:ILE:HG23	1:PU:234:ALA:HB1	1.99	0.44
1:PU:245:GLN:O	1:PU:320:ALA:HA	2.17	0.44
1:PU:254:LEU:HA	1:PU:309:ILE:HD12	1.99	0.44
1:PU:458:THR:O	1:PU:462:VAL:HG23	2.17	0.44
1:aW:178:ALA:CB	1:aW:372:GLN:HG2	2.48	0.44
1:aW:281:VAL:HG23	1:aW:285:THR:CG2	2.47	0.44
1:EX:245:GLN:O	1:EX:320:ALA:HA	2.17	0.44
1:EX:321:LEU:HB3	1:EX:330:LEU:HD12	2.00	0.44
1:Y1:14:ALA:CB	1:Y1:495:MET:HG2	2.48	0.44
1:I3:321:LEU:HB3	1:I3:330:LEU:HD12	2.00	0.44
1:I3:361:LEU:HB2	1:I3:370:GLU:CD	2.43	0.44
1:R4:224:ASN:OD1	1:S5:293:GLN:HB2	2.17	0.44
1:R4:254:LEU:HA	1:R4:309:ILE:HD12	1.99	0.44
1:S5:14:ALA:CB	1:S5:495:MET:HG2	2.47	0.44
1:S5:214:ILE:HG23	1:S5:234:ALA:HB1	1.99	0.44
1:S5:237:ILE:HB	1:S5:399:TYR:HB3	2.00	0.44
1:S5:507:ARG:HE	1:TP:475:ALA:HA	1.82	0.44
1:g6:158:LYS:HE2	1:g6:158:LYS:HB2	1.81	0.44
1:g6:294:LYS:HE2	1:g6:294:LYS:HB2	1.69	0.44
1:A7:354:SER:N	1:A7:359:GLN:HE21	2.14	0.44
1:e8:25:LEU:HG	1:e8:484:ASN:HB3	1.99	0.44
1:e8:503:GLN:HA	1:e8:506:LEU:HD13	2.00	0.44
1:Z9:14:ALA:CB	1:Z9:495:MET:HG2	2.47	0.44
1:Z9:178:ALA:CB	1:Z9:372:GLN:HG2	2.48	0.44
1:Z9:457:ILE:HG21	1:bS:80:LYS:CG	2.48	0.44
1:Z9:458:THR:O	1:Z9:462:VAL:HG23	2.17	0.44
1:Z9:507:ARG:HE	1:aW:475:ALA:HA	1.82	0.44
1:OA:501:VAL:O	1:OA:504:ASN:ND2	2.51	0.44
1:FB:82:MET:HE3	1:FB:82:MET:HB2	1.82	0.44
1:FB:254:LEU:HA	1:FB:309:ILE:HD12	1.99	0.44
1:FB:321:LEU:HB3	1:FB:330:LEU:HD12	2.00	0.44
1:FB:501:VAL:O	1:FB:504:ASN:ND2	2.51	0.44
1:dC:503:GLN:HA	1:dC:506:LEU:HD13	2.00	0.44
1:KE:14:ALA:CB	1:KE:495:MET:HG2	2.48	0.44
1:KE:294:LYS:HD3	1:GQ:200:THR:HB	2.00	0.44
1:LF:14:ALA:CB	1:LF:495:MET:HG2	2.48	0.44
1:WG:188:LEU:HD12	1:WG:188:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:281:VAL:HG23	1:WG:285:THR:CG2	2.47	0.44
1:UH:254:LEU:HA	1:UH:309:ILE:HD12	1.99	0.44
1:UH:293:GLN:HB2	1:PU:224:ASN:OD1	2.17	0.44
1:UH:293:GLN:HG2	1:UH:294:LYS:N	2.33	0.44
1:UH:458:THR:O	1:UH:462:VAL:HG23	2.17	0.44
1:NI:178:ALA:CB	1:NI:372:GLN:HG2	2.48	0.44
1:NI:188:LEU:HD12	1:NI:188:LEU:O	2.17	0.44
1:BJ:25:LEU:HG	1:BJ:484:ASN:HB3	1.99	0.44
1:BJ:76:GLN:HG3	1:BJ:445:GLN:OE1	2.18	0.44
1:BJ:224:ASN:O	1:BJ:228:THR:HG23	2.17	0.44
1:fK:76:GLN:HG3	1:fK:445:GLN:OE1	2.18	0.44
1:HL:214:ILE:HG23	1:HL:234:ALA:HB1	1.99	0.44
1:HL:281:VAL:HG23	1:HL:285:THR:CG2	2.47	0.44
1:HL:321:LEU:HB3	1:HL:330:LEU:HD12	2.00	0.44
1:XM:178:ALA:HB3	1:XM:372:GLN:HG2	2.00	0.44
1:XM:281:VAL:HG23	1:XM:285:THR:CG2	2.47	0.44
1:DN:76:GLN:HG3	1:DN:445:GLN:OE1	2.18	0.44
1:DN:245:GLN:O	1:DN:320:ALA:HA	2.17	0.44
1:DN:254:LEU:HA	1:DN:309:ILE:HD12	1.99	0.44
1:MO:14:ALA:CB	1:MO:495:MET:HG2	2.48	0.44
1:MO:181:THR:HA	1:MO:335:THR:O	2.17	0.44
1:MO:191:LYS:HE2	1:MO:191:LYS:HB3	1.73	0.44
1:MO:239:THR:CG2	1:MO:400:ASN:HD21	2.26	0.44
1:MO:501:VAL:O	1:MO:504:ASN:ND2	2.51	0.44
1:TP:178:ALA:HB3	1:TP:372:GLN:HG2	2.00	0.44
1:TP:293:GLN:HG2	1:TP:294:LYS:N	2.33	0.44
1:GQ:178:ALA:CB	1:GQ:372:GLN:HG2	2.48	0.44
1:GQ:321:LEU:HB3	1:GQ:330:LEU:HD12	2.00	0.44
1:VR:25:LEU:HG	1:VR:484:ASN:HB3	1.99	0.44
1:VR:188:LEU:HD12	1:VR:188:LEU:O	2.17	0.44
1:VR:281:VAL:HG23	1:VR:285:THR:CG2	2.48	0.44
1:bS:76:GLN:HG3	1:bS:445:GLN:OE1	2.18	0.44
1:CT:188:LEU:HD12	1:CT:188:LEU:O	2.17	0.44
1:cV:397:ALA:HB2	1:cV:418:ARG:HG3	1.98	0.44
1:aW:321:LEU:HB3	1:aW:330:LEU:HD12	2.00	0.44
1:aW:458:THR:O	1:aW:462:VAL:HG23	2.17	0.44
1:EX:14:ALA:CB	1:EX:495:MET:HG2	2.48	0.44
1:EX:354:SER:N	1:EX:359:GLN:HE21	2.14	0.44
1:EX:441:LEU:HD23	1:EX:441:LEU:HA	1.81	0.44
1:EX:501:VAL:O	1:EX:504:ASN:ND2	2.51	0.44
1:Y1:80:LYS:CB	1:XM:457:ILE:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:178:ALA:CB	1:Y1:372:GLN:HG2	2.48	0.44
1:Y1:503:GLN:HA	1:Y1:506:LEU:HD13	2.00	0.44
1:I3:178:ALA:CB	1:I3:372:GLN:HG2	2.48	0.44
1:I3:188:LEU:HD12	1:I3:188:LEU:O	2.17	0.44
1:I3:223:LYS:CG	1:JD:141:GLN:HG2	2.48	0.44
1:I3:354:SER:N	1:I3:359:GLN:HE21	2.14	0.44
1:R4:178:ALA:HB3	1:R4:372:GLN:HG2	2.00	0.44
1:R4:455:ILE:HD13	1:R4:455:ILE:HA	1.88	0.44
1:R4:457:ILE:HG21	1:S5:80:LYS:CB	2.47	0.44
1:S5:48:MET:CE	1:TP:438:ARG:HB3	2.44	0.44
1:S5:178:ALA:HB3	1:S5:372:GLN:HG2	2.00	0.44
1:S5:181:THR:HA	1:S5:335:THR:O	2.17	0.44
1:S5:293:GLN:HG2	1:S5:294:LYS:N	2.33	0.44
1:S5:361:LEU:HB2	1:S5:370:GLU:CD	2.43	0.44
1:S5:501:VAL:O	1:S5:504:ASN:ND2	2.51	0.44
1:g6:237:ILE:HB	1:g6:399:TYR:HB3	1.99	0.44
1:A7:25:LEU:HG	1:A7:484:ASN:HB3	1.98	0.44
1:A7:76:GLN:HG3	1:A7:445:GLN:OE1	2.18	0.44
1:A7:501:VAL:O	1:A7:504:ASN:ND2	2.51	0.44
1:Z9:4:GLN:HG2	1:aW:471:ASP:CB	2.44	0.44
1:Z9:503:GLN:HA	1:Z9:506:LEU:HD13	2.00	0.44
1:OA:178:ALA:CB	1:OA:372:GLN:HG2	2.48	0.44
1:OA:188:LEU:O	1:OA:188:LEU:HD12	2.17	0.44
1:OA:281:VAL:HG23	1:OA:285:THR:CG2	2.47	0.44
1:OA:293:GLN:HB2	1:JD:224:ASN:OD1	2.17	0.44
1:FB:14:ALA:CB	1:FB:495:MET:HG2	2.48	0.44
1:FB:37:ARG:HB2	1:FB:472:VAL:HA	2.00	0.44
1:JD:181:THR:HA	1:JD:335:THR:O	2.17	0.44
1:JD:309:ILE:HD12	1:JD:309:ILE:HA	1.88	0.44
1:KE:181:THR:HA	1:KE:335:THR:O	2.17	0.44
1:UH:501:VAL:O	1:UH:504:ASN:ND2	2.51	0.44
1:NI:14:ALA:CB	1:NI:495:MET:HG2	2.48	0.44
1:NI:214:ILE:HG23	1:NI:234:ALA:HB1	1.99	0.44
1:NI:281:VAL:HG23	1:NI:285:THR:CG2	2.47	0.44
1:NI:293:GLN:HG2	1:NI:294:LYS:N	2.33	0.44
1:BJ:354:SER:N	1:BJ:359:GLN:HE21	2.14	0.44
1:fK:25:LEU:HG	1:fK:484:ASN:HB3	1.99	0.44
1:fK:237:ILE:HB	1:fK:399:TYR:HB3	1.99	0.44
1:fK:503:GLN:HA	1:fK:506:LEU:HD13	2.00	0.44
1:HL:178:ALA:CB	1:HL:372:GLN:HG2	2.48	0.44
1:HL:475:ALA:HA	1:GQ:507:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:178:ALA:CB	1:MO:372:GLN:HG2	2.48	0.44
1:MO:214:ILE:HG23	1:MO:234:ALA:HB1	1.99	0.44
1:MO:281:VAL:HG23	1:MO:285:THR:CG2	2.47	0.44
1:MO:293:GLN:HG2	1:MO:294:LYS:N	2.33	0.44
1:TP:14:ALA:CB	1:TP:495:MET:HG2	2.48	0.44
1:TP:361:LEU:HB2	1:TP:370:GLU:CD	2.43	0.44
1:TP:501:VAL:O	1:TP:504:ASN:ND2	2.51	0.44
1:VR:503:GLN:HA	1:VR:506:LEU:HD13	2.00	0.44
1:bS:397:ALA:HB2	1:bS:418:ARG:HG3	1.98	0.44
1:bS:503:GLN:HA	1:bS:506:LEU:HD13	2.00	0.44
1:CT:224:ASN:O	1:CT:228:THR:HG23	2.17	0.44
1:PU:361:LEU:HB2	1:PU:370:GLU:CD	2.43	0.44
1:PU:503:GLN:HA	1:PU:506:LEU:HD13	2.00	0.44
1:cV:503:GLN:HA	1:cV:506:LEU:HD13	2.00	0.44
1:aW:503:GLN:HA	1:aW:506:LEU:HD13	2.00	0.44
1:EX:37:ARG:HB2	1:EX:472:VAL:HA	2.00	0.44
1:EX:76:GLN:HG3	1:EX:445:GLN:OE1	2.18	0.44
1:EX:82:MET:HE3	1:EX:82:MET:HB2	1.82	0.44
1:Y1:321:LEU:HB3	1:Y1:330:LEU:HD12	2.00	0.44
1:Y1:501:VAL:O	1:Y1:504:ASN:ND2	2.51	0.44
1:Q2:178:ALA:HB3	1:Q2:372:GLN:HG2	2.00	0.44
1:I3:224:ASN:O	1:I3:228:THR:HG23	2.17	0.44
1:I3:281:VAL:HG23	1:I3:285:THR:CG2	2.48	0.44
1:I3:501:VAL:O	1:I3:504:ASN:ND2	2.51	0.44
1:R4:361:LEU:HB2	1:R4:370:GLU:CD	2.43	0.44
1:S5:66:ALA:O	1:S5:70:ASP:OD1	2.36	0.44
1:S5:281:VAL:HG23	1:S5:285:THR:CG2	2.47	0.44
1:g6:293:GLN:HB2	1:bS:224:ASN:OD1	2.17	0.44
1:Z9:321:LEU:HB3	1:Z9:330:LEU:HD12	2.00	0.44
1:Z9:501:VAL:O	1:Z9:504:ASN:ND2	2.51	0.44
1:OA:14:ALA:CB	1:OA:495:MET:HG2	2.47	0.44
1:OA:66:ALA:O	1:OA:70:ASP:OD1	2.36	0.44
1:OA:293:GLN:HG2	1:OA:294:LYS:N	2.33	0.44
1:OA:503:GLN:HA	1:OA:506:LEU:HD13	2.00	0.44
1:FB:507:ARG:HE	1:EX:475:ALA:HA	1.83	0.44
1:dC:506:LEU:H	1:dC:506:LEU:CD1	2.28	0.44
1:JD:37:ARG:HB2	1:JD:472:VAL:HA	2.00	0.44
1:KE:361:LEU:HB2	1:KE:370:GLU:CD	2.43	0.44
1:LF:181:THR:HA	1:LF:335:THR:O	2.17	0.44
1:LF:188:LEU:HD12	1:LF:188:LEU:O	2.17	0.44
1:LF:214:ILE:HG23	1:LF:234:ALA:HB1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LF:361:LEU:HB2	1:LF:370:GLU:CD	2.43	0.44
1:WG:178:ALA:HB3	1:WG:372:GLN:HG2	2.00	0.44
1:WG:397:ALA:HB2	1:WG:418:ARG:HG3	1.98	0.44
1:UH:14:ALA:CB	1:UH:495:MET:HG2	2.48	0.44
1:UH:66:ALA:O	1:UH:70:ASP:OD1	2.36	0.44
1:UH:178:ALA:CB	1:UH:372:GLN:HG2	2.48	0.44
1:UH:294:LYS:HD3	1:PU:200:THR:HB	1.99	0.44
1:UH:361:LEU:HB2	1:UH:370:GLU:CD	2.43	0.44
1:UH:503:GLN:HA	1:UH:506:LEU:HD13	2.00	0.44
1:NI:503:GLN:HA	1:NI:506:LEU:HD13	2.00	0.44
1:BJ:457:ILE:HG21	1:EX:80:LYS:CB	2.48	0.44
1:BJ:503:GLN:HA	1:BJ:506:LEU:HD13	2.00	0.44
1:fK:158:LYS:HB2	1:fK:158:LYS:HE2	1.81	0.44
1:HL:361:LEU:HB2	1:HL:370:GLU:CD	2.43	0.44
1:XM:503:GLN:HA	1:XM:506:LEU:HD13	2.00	0.44
1:DN:37:ARG:HB2	1:DN:472:VAL:HA	2.00	0.44
1:DN:82:MET:HE3	1:DN:82:MET:HB2	1.82	0.44
1:DN:354:SER:N	1:DN:359:GLN:HE21	2.14	0.44
1:MO:66:ALA:O	1:MO:70:ASP:OD1	2.36	0.44
1:MO:458:THR:O	1:MO:462:VAL:HG23	2.17	0.44
1:TP:214:ILE:HG23	1:TP:234:ALA:HB1	1.99	0.44
1:TP:503:GLN:HA	1:TP:506:LEU:HD13	2.00	0.44
1:GQ:224:ASN:O	1:GQ:228:THR:HG23	2.17	0.44
1:GQ:361:LEU:HB2	1:GQ:370:GLU:CD	2.43	0.44
1:VR:397:ALA:HB2	1:VR:418:ARG:HG3	1.98	0.44
1:bS:501:VAL:O	1:bS:504:ASN:ND2	2.51	0.44
1:CT:501:VAL:O	1:CT:504:ASN:ND2	2.51	0.44
1:PU:178:ALA:HB3	1:PU:372:GLN:HG2	2.00	0.44
1:cV:76:GLN:HG3	1:cV:445:GLN:OE1	2.18	0.44
1:aW:14:ALA:CB	1:aW:495:MET:HG2	2.47	0.44
1:aW:25:LEU:HG	1:aW:484:ASN:HB3	1.98	0.44
1:aW:76:GLN:HG3	1:aW:445:GLN:OE1	2.18	0.44
1:aW:501:VAL:O	1:aW:504:ASN:ND2	2.51	0.44
1:Q2:76:GLN:HG3	1:Q2:445:GLN:OE1	2.18	0.43
1:Q2:361:LEU:HB2	1:Q2:370:GLU:CD	2.43	0.43
1:Q2:503:GLN:HA	1:Q2:506:LEU:HD13	2.00	0.43
1:R4:76:GLN:HG3	1:R4:445:GLN:OE1	2.18	0.43
1:R4:503:GLN:HA	1:R4:506:LEU:HD13	2.00	0.43
1:S5:503:GLN:HA	1:S5:506:LEU:HD13	2.00	0.43
1:g6:25:LEU:HG	1:g6:484:ASN:HB3	1.99	0.43
1:g6:458:THR:O	1:g6:462:VAL:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:503:GLN:HA	1:g6:506:LEU:HD13	2.00	0.43
1:Z9:25:LEU:HG	1:Z9:484:ASN:HB3	1.98	0.43
1:OA:181:THR:HA	1:OA:335:THR:O	2.17	0.43
1:OA:191:LYS:HE2	1:OA:191:LYS:HB3	1.73	0.43
1:OA:458:THR:O	1:OA:462:VAL:HG23	2.17	0.43
1:FB:76:GLN:HG3	1:FB:445:GLN:OE1	2.18	0.43
1:JD:188:LEU:HD12	1:JD:188:LEU:O	2.17	0.43
1:JD:214:ILE:HG23	1:JD:234:ALA:HB1	1.99	0.43
1:JD:503:GLN:HA	1:JD:506:LEU:HD13	2.00	0.43
1:KE:188:LEU:O	1:KE:188:LEU:HD12	2.17	0.43
1:KE:503:GLN:HA	1:KE:506:LEU:HD13	2.00	0.43
1:WG:503:GLN:HA	1:WG:506:LEU:HD13	2.00	0.43
1:UH:181:THR:HA	1:UH:335:THR:O	2.17	0.43
1:UH:214:ILE:HG23	1:UH:234:ALA:HB1	1.99	0.43
1:NI:66:ALA:O	1:NI:70:ASP:OD1	2.36	0.43
1:NI:181:THR:HA	1:NI:335:THR:O	2.17	0.43
1:NI:191:LYS:HE2	1:NI:191:LYS:HB3	1.74	0.43
1:NI:458:THR:O	1:NI:462:VAL:HG23	2.17	0.43
1:BJ:37:ARG:HB2	1:BJ:472:VAL:HA	2.00	0.43
1:BJ:501:VAL:O	1:BJ:504:ASN:ND2	2.51	0.43
1:fK:178:ALA:CB	1:fK:372:GLN:HG2	2.48	0.43
1:HL:66:ALA:O	1:HL:70:ASP:OD1	2.36	0.43
1:HL:188:LEU:HD12	1:HL:188:LEU:O	2.17	0.43
1:HL:224:ASN:O	1:HL:228:THR:HG23	2.17	0.43
1:HL:458:THR:O	1:HL:462:VAL:HG23	2.17	0.43
1:HL:501:VAL:O	1:HL:504:ASN:ND2	2.51	0.43
1:DN:294:LYS:HD3	1:CT:200:THR:HB	1.99	0.43
1:TP:66:ALA:O	1:TP:70:ASP:OD1	2.36	0.43
1:TP:178:ALA:CB	1:TP:372:GLN:HG2	2.48	0.43
1:GQ:458:THR:O	1:GQ:462:VAL:HG23	2.17	0.43
1:GQ:501:VAL:O	1:GQ:504:ASN:ND2	2.51	0.43
1:bS:506:LEU:H	1:bS:506:LEU:CD1	2.28	0.43
1:CT:37:ARG:HB2	1:CT:472:VAL:HA	2.00	0.43
1:CT:503:GLN:HA	1:CT:506:LEU:HD13	2.00	0.43
1:PU:76:GLN:HG3	1:PU:445:GLN:OE1	2.18	0.43
1:PU:237:ILE:HB	1:PU:399:TYR:HB3	1.99	0.43
1:cV:501:VAL:O	1:cV:504:ASN:ND2	2.51	0.43
1:cV:506:LEU:H	1:cV:506:LEU:CD1	2.28	0.43
1:aW:178:ALA:HB3	1:aW:372:GLN:HG2	2.00	0.43
1:Y1:4:GLN:HG2	1:Z9:471:ASP:CB	2.44	0.43
1:Y1:25:LEU:HG	1:Y1:484:ASN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:506:LEU:H	1:Y1:506:LEU:CD1	2.28	0.43
1:Q2:81:ALA:HB1	1:Q2:138:LEU:HD11	2.01	0.43
1:Q2:237:ILE:HB	1:Q2:399:TYR:HB3	1.99	0.43
1:Q2:464:ALA:HA	1:R4:9:ILE:CD1	2.48	0.43
1:I3:66:ALA:O	1:I3:70:ASP:OD1	2.37	0.43
1:I3:324:VAL:CG1	1:I3:330:LEU:HD21	2.49	0.43
1:R4:81:ALA:HB1	1:R4:138:LEU:HD11	2.01	0.43
1:R4:237:ILE:HB	1:R4:399:TYR:HB3	1.99	0.43
1:S5:178:ALA:CB	1:S5:372:GLN:HG2	2.48	0.43
1:g6:178:ALA:CB	1:g6:372:GLN:HG2	2.48	0.43
1:A7:37:ARG:HB2	1:A7:472:VAL:HA	2.00	0.43
1:A7:237:ILE:HB	1:A7:399:TYR:HB3	1.99	0.43
1:A7:240:SER:HB3	1:A7:321:LEU:HD21	2.01	0.43
1:A7:503:GLN:HA	1:A7:506:LEU:HD13	2.00	0.43
1:e8:158:LYS:HE2	1:e8:158:LYS:HB2	1.81	0.43
1:e8:178:ALA:CB	1:e8:372:GLN:HG2	2.48	0.43
1:Z9:76:GLN:HG3	1:Z9:445:GLN:OE1	2.18	0.43
1:Z9:178:ALA:HB3	1:Z9:372:GLN:HG2	2.00	0.43
1:Z9:506:LEU:H	1:Z9:506:LEU:CD1	2.28	0.43
1:OA:294:LYS:HD3	1:JD:200:THR:HB	1.99	0.43
1:FB:200:THR:HB	1:GQ:294:LYS:HD3	2.00	0.43
1:FB:503:GLN:HA	1:FB:506:LEU:HD13	2.00	0.43
1:dC:76:GLN:HG3	1:dC:445:GLN:OE1	2.18	0.43
1:dC:81:ALA:HB1	1:dC:138:LEU:HD11	2.00	0.43
1:dC:501:VAL:O	1:dC:504:ASN:ND2	2.51	0.43
1:KE:3:PHE:HZ	1:NI:18:SER:CB	2.31	0.43
1:KE:37:ARG:HB2	1:KE:472:VAL:HA	2.00	0.43
1:KE:214:ILE:HG23	1:KE:234:ALA:HB1	1.99	0.43
1:LF:355:ALA:O	1:LF:359:GLN:HG2	2.19	0.43
1:WG:321:LEU:HB3	1:WG:330:LEU:HD12	2.00	0.43
1:UH:281:VAL:HG23	1:UH:285:THR:CG2	2.47	0.43
1:BJ:237:ILE:HB	1:BJ:399:TYR:HB3	1.99	0.43
1:fK:268:ASN:ND2	1:cV:202:GLU:HB2	2.29	0.43
1:fK:294:LYS:HE2	1:fK:294:LYS:HB2	1.69	0.43
1:fK:458:THR:O	1:fK:462:VAL:HG23	2.17	0.43
1:XM:321:LEU:HB3	1:XM:330:LEU:HD12	2.00	0.43
1:DN:240:SER:HB3	1:DN:321:LEU:HD21	2.01	0.43
1:MO:503:GLN:HA	1:MO:506:LEU:HD13	2.00	0.43
1:TP:181:THR:HA	1:TP:335:THR:O	2.17	0.43
1:TP:281:VAL:HG23	1:TP:285:THR:CG2	2.47	0.43
1:GQ:66:ALA:O	1:GQ:70:ASP:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:66:ALA:O	1:VR:70:ASP:OD1	2.36	0.43
1:CT:354:SER:N	1:CT:359:GLN:HE21	2.14	0.43
1:PU:66:ALA:O	1:PU:70:ASP:OD1	2.36	0.43
1:PU:81:ALA:HB1	1:PU:138:LEU:HD11	2.01	0.43
1:cV:81:ALA:HB1	1:cV:138:LEU:HD11	2.00	0.43
1:EX:355:ALA:O	1:EX:359:GLN:HG2	2.19	0.43
1:Y1:76:GLN:HG3	1:Y1:445:GLN:OE1	2.18	0.43
1:Y1:178:ALA:HB3	1:Y1:372:GLN:HG2	2.00	0.43
1:Y1:293:GLN:HG2	1:Y1:294:LYS:N	2.33	0.43
1:Q2:66:ALA:O	1:Q2:70:ASP:OD1	2.36	0.43
1:I3:458:THR:O	1:I3:462:VAL:HG23	2.17	0.43
1:R4:66:ALA:O	1:R4:70:ASP:OD1	2.36	0.43
1:e8:37:ARG:HB2	1:e8:472:VAL:HA	2.00	0.43
1:e8:361:LEU:HB2	1:e8:370:GLU:CD	2.43	0.43
1:e8:458:THR:O	1:e8:462:VAL:HG23	2.17	0.43
1:Z9:293:GLN:HG2	1:Z9:294:LYS:N	2.33	0.43
1:OA:37:ARG:HB2	1:OA:472:VAL:HA	2.00	0.43
1:OA:178:ALA:HB3	1:OA:372:GLN:HG2	2.00	0.43
1:FB:240:SER:HB3	1:FB:321:LEU:HD21	2.01	0.43
1:FB:457:ILE:HG21	1:GQ:80:LYS:CB	2.47	0.43
1:dC:324:VAL:CG1	1:dC:330:LEU:HD21	2.49	0.43
1:JD:66:ALA:O	1:JD:70:ASP:OD1	2.36	0.43
1:JD:324:VAL:CG1	1:JD:330:LEU:HD21	2.49	0.43
1:JD:355:ALA:O	1:JD:359:GLN:HG2	2.19	0.43
1:JD:361:LEU:HB2	1:JD:370:GLU:CD	2.43	0.43
1:KE:64:ALA:HB1	1:KE:149:VAL:HA	2.01	0.43
1:KE:321:LEU:HB3	1:KE:330:LEU:HD12	2.00	0.43
1:KE:324:VAL:CG1	1:KE:330:LEU:HD21	2.48	0.43
1:KE:355:ALA:O	1:KE:359:GLN:HG2	2.19	0.43
1:LF:37:ARG:HB2	1:LF:472:VAL:HA	2.00	0.43
1:LF:66:ALA:O	1:LF:70:ASP:OD1	2.36	0.43
1:LF:81:ALA:HB1	1:LF:138:LEU:HD11	2.00	0.43
1:LF:324:VAL:CG1	1:LF:330:LEU:HD21	2.49	0.43
1:LF:503:GLN:HA	1:LF:506:LEU:HD13	2.00	0.43
1:WG:63:GLN:HG2	1:VR:94:VAL:O	2.19	0.43
1:WG:66:ALA:O	1:WG:70:ASP:OD1	2.36	0.43
1:WG:81:ALA:HB1	1:WG:138:LEU:HD11	2.01	0.43
1:UH:188:LEU:HD12	1:UH:188:LEU:O	2.17	0.43
1:UH:438:ARG:HB3	1:TP:48:MET:CE	2.44	0.43
1:NI:37:ARG:HB2	1:NI:472:VAL:HA	2.00	0.43
1:NI:178:ALA:HB3	1:NI:372:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:37:ARG:HB2	1:fK:472:VAL:HA	2.00	0.43
1:HL:324:VAL:CG1	1:HL:330:LEU:HD21	2.49	0.43
1:XM:81:ALA:HB1	1:XM:138:LEU:HD11	2.01	0.43
1:XM:178:ALA:CB	1:XM:372:GLN:HG2	2.48	0.43
1:DN:355:ALA:O	1:DN:359:GLN:HG2	2.19	0.43
1:DN:441:LEU:HD23	1:DN:441:LEU:HA	1.81	0.43
1:DN:503:GLN:HA	1:DN:506:LEU:HD13	2.00	0.43
1:MO:37:ARG:HB2	1:MO:472:VAL:HA	2.00	0.43
1:GQ:181:THR:HA	1:GQ:335:THR:O	2.17	0.43
1:GQ:188:LEU:HD12	1:GQ:188:LEU:O	2.17	0.43
1:GQ:324:VAL:CG1	1:GQ:330:LEU:HD21	2.49	0.43
1:VR:8:ASN:ND2	1:VR:11:ALA:HB2	2.34	0.43
1:VR:81:ALA:HB1	1:VR:138:LEU:HD11	2.01	0.43
1:VR:178:ALA:CB	1:VR:372:GLN:HG2	2.48	0.43
1:VR:321:LEU:HB3	1:VR:330:LEU:HD12	2.00	0.43
1:VR:501:VAL:O	1:VR:504:ASN:ND2	2.51	0.43
1:bS:81:ALA:HB1	1:bS:138:LEU:HD11	2.00	0.43
1:CT:237:ILE:HB	1:CT:399:TYR:HB3	1.99	0.43
1:CT:240:SER:HB3	1:CT:321:LEU:HD21	2.01	0.43
1:CT:309:ILE:HD12	1:CT:309:ILE:HA	1.88	0.43
1:aW:181:THR:HA	1:aW:335:THR:O	2.17	0.43
1:aW:293:GLN:HG2	1:aW:294:LYS:N	2.33	0.43
1:aW:506:LEU:H	1:aW:506:LEU:CD1	2.28	0.43
1:EX:240:SER:HB3	1:EX:321:LEU:HD21	2.01	0.43
1:Y1:181:THR:HA	1:Y1:335:THR:O	2.17	0.43
1:I3:76:GLN:HG3	1:I3:445:GLN:OE1	2.18	0.43
1:I3:240:SER:HB3	1:I3:321:LEU:HD21	2.01	0.43
1:I3:503:GLN:HA	1:I3:506:LEU:HD13	2.00	0.43
1:R4:64:ALA:HB1	1:R4:149:VAL:HA	2.01	0.43
1:S5:324:VAL:CG1	1:S5:330:LEU:HD21	2.49	0.43
1:g6:14:ALA:CB	1:g6:495:MET:HG2	2.48	0.43
1:g6:37:ARG:HB2	1:g6:472:VAL:HA	2.00	0.43
1:g6:64:ALA:HB1	1:g6:149:VAL:HA	2.01	0.43
1:g6:361:LEU:HB2	1:g6:370:GLU:CD	2.43	0.43
1:A7:141:GLN:HG2	1:e8:223:LYS:CG	2.48	0.43
1:A7:422:VAL:O	1:A7:426:ILE:HG13	2.19	0.43
1:e8:14:ALA:CB	1:e8:495:MET:HG2	2.48	0.43
1:e8:64:ALA:HB1	1:e8:149:VAL:HA	2.01	0.43
1:e8:354:SER:N	1:e8:359:GLN:HE21	2.14	0.43
1:e8:422:VAL:O	1:e8:426:ILE:HG13	2.19	0.43
1:Z9:181:THR:HA	1:Z9:335:THR:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OA:64:ALA:HB1	1:OA:149:VAL:HA	2.01	0.43
1:FB:355:ALA:O	1:FB:359:GLN:HG2	2.19	0.43
1:JD:64:ALA:HB1	1:JD:149:VAL:HA	2.01	0.43
1:JD:80:LYS:CG	1:HL:457:ILE:HG21	2.48	0.43
1:JD:81:ALA:HB1	1:JD:138:LEU:HD11	2.01	0.43
1:JD:321:LEU:HB3	1:JD:330:LEU:HD12	2.00	0.43
1:KE:66:ALA:O	1:KE:70:ASP:OD1	2.36	0.43
1:LF:64:ALA:HB1	1:LF:149:VAL:HA	2.01	0.43
1:LF:321:LEU:HB3	1:LF:330:LEU:HD12	2.00	0.43
1:WG:8:ASN:ND2	1:WG:11:ALA:HB2	2.34	0.43
1:WG:178:ALA:CB	1:WG:372:GLN:HG2	2.48	0.43
1:WG:501:VAL:O	1:WG:504:ASN:ND2	2.51	0.43
1:UH:324:VAL:CG1	1:UH:330:LEU:HD21	2.49	0.43
1:NI:64:ALA:HB1	1:NI:149:VAL:HA	2.01	0.43
1:BJ:240:SER:HB3	1:BJ:321:LEU:HD21	2.01	0.43
1:BJ:422:VAL:O	1:BJ:426:ILE:HG13	2.19	0.43
1:fK:8:ASN:ND2	1:fK:11:ALA:HB2	2.34	0.43
1:fK:354:SER:N	1:fK:359:GLN:HE21	2.14	0.43
1:HL:76:GLN:HG3	1:HL:445:GLN:OE1	2.18	0.43
1:HL:181:THR:HA	1:HL:335:THR:O	2.17	0.43
1:HL:240:SER:HB3	1:HL:321:LEU:HD21	2.01	0.43
1:HL:503:GLN:HA	1:HL:506:LEU:HD13	2.00	0.43
1:XM:8:ASN:ND2	1:XM:11:ALA:HB2	2.34	0.43
1:MO:64:ALA:HB1	1:MO:149:VAL:HA	2.01	0.43
1:TP:188:LEU:HD12	1:TP:188:LEU:O	2.17	0.43
1:TP:324:VAL:CG1	1:TP:330:LEU:HD21	2.49	0.43
1:GQ:293:GLN:HG2	1:GQ:294:LYS:N	2.33	0.43
1:GQ:503:GLN:HA	1:GQ:506:LEU:HD13	2.00	0.43
1:bS:324:VAL:CG1	1:bS:330:LEU:HD21	2.49	0.43
1:CT:422:VAL:O	1:CT:426:ILE:HG13	2.19	0.43
1:cV:324:VAL:CG1	1:cV:330:LEU:HD21	2.49	0.43
1:aW:324:VAL:CG1	1:aW:330:LEU:HD21	2.49	0.43
1:EX:503:GLN:HA	1:EX:506:LEU:HD13	2.00	0.43
1:Q2:455:ILE:HD13	1:Q2:455:ILE:HA	1.88	0.43
1:I3:64:ALA:HB1	1:I3:149:VAL:HA	2.01	0.43
1:I3:181:THR:HA	1:I3:335:THR:O	2.17	0.43
1:I3:293:GLN:HB2	1:DN:224:ASN:OD1	2.18	0.43
1:I3:293:GLN:HG2	1:I3:294:LYS:N	2.33	0.43
1:R4:178:ALA:CB	1:R4:372:GLN:HG2	2.48	0.43
1:S5:8:ASN:ND2	1:S5:11:ALA:HB2	2.34	0.43
1:S5:188:LEU:HD12	1:S5:188:LEU:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:223:LYS:HG3	1:XM:141:GLN:HG2	1.98	0.43
1:S5:321:LEU:HB3	1:S5:330:LEU:HD12	2.00	0.43
1:g6:8:ASN:ND2	1:g6:11:ALA:HB2	2.34	0.43
1:g6:240:SER:HB3	1:g6:321:LEU:HD21	2.01	0.43
1:g6:294:LYS:HD3	1:bS:200:THR:HB	1.99	0.43
1:A7:361:LEU:HB2	1:A7:370:GLU:CD	2.43	0.43
1:A7:455:ILE:HD13	1:A7:455:ILE:HA	1.88	0.43
1:e8:8:ASN:ND2	1:e8:11:ALA:HB2	2.34	0.43
1:e8:240:SER:HB3	1:e8:321:LEU:HD21	2.01	0.43
1:e8:324:VAL:CG1	1:e8:330:LEU:HD21	2.49	0.43
1:e8:457:ILE:HG21	1:BJ:80:LYS:CB	2.47	0.43
1:Z9:80:LYS:CB	1:WG:457:ILE:HG21	2.48	0.43
1:Z9:497:GLN:HG3	1:bS:481:PHE:CE2	2.53	0.43
1:OA:438:ARG:HB3	1:NI:48:MET:CE	2.46	0.43
1:FB:66:ALA:O	1:FB:70:ASP:OD1	2.36	0.43
1:dC:178:ALA:HB3	1:dC:372:GLN:HG2	2.00	0.43
1:JD:240:SER:HB3	1:JD:321:LEU:HD21	2.01	0.43
1:KE:81:ALA:HB1	1:KE:138:LEU:HD11	2.01	0.43
1:KE:309:ILE:HD12	1:KE:309:ILE:HA	1.89	0.43
1:BJ:64:ALA:HB1	1:BJ:149:VAL:HA	2.01	0.43
1:BJ:361:LEU:HB2	1:BJ:370:GLU:CD	2.43	0.43
1:fK:64:ALA:HB1	1:fK:149:VAL:HA	2.01	0.43
1:fK:141:GLN:HG2	1:bS:223:LYS:HG3	2.00	0.43
1:fK:240:SER:HB3	1:fK:321:LEU:HD21	2.01	0.43
1:fK:324:VAL:CG1	1:fK:330:LEU:HD21	2.49	0.43
1:fK:361:LEU:HB2	1:fK:370:GLU:CD	2.43	0.43
1:fK:422:VAL:O	1:fK:426:ILE:HG13	2.19	0.43
1:HL:64:ALA:HB1	1:HL:149:VAL:HA	2.01	0.43
1:HL:141:GLN:HG2	1:DN:223:LYS:HG3	2.00	0.43
1:HL:293:GLN:HG2	1:HL:294:LYS:N	2.33	0.43
1:XM:37:ARG:HB2	1:XM:472:VAL:HA	2.00	0.43
1:XM:66:ALA:O	1:XM:70:ASP:OD1	2.37	0.43
1:XM:501:VAL:O	1:XM:504:ASN:ND2	2.51	0.43
1:DN:64:ALA:HB1	1:DN:149:VAL:HA	2.01	0.43
1:DN:66:ALA:O	1:DN:70:ASP:OD1	2.36	0.43
1:MO:178:ALA:HB3	1:MO:372:GLN:HG2	2.00	0.43
1:TP:202:GLU:HB2	1:VR:268:ASN:ND2	2.26	0.43
1:GQ:64:ALA:HB1	1:GQ:149:VAL:HA	2.01	0.43
1:GQ:76:GLN:HG3	1:GQ:445:GLN:OE1	2.18	0.43
1:GQ:240:SER:HB3	1:GQ:321:LEU:HD21	2.01	0.43
1:bS:178:ALA:HB3	1:bS:372:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:361:LEU:HB2	1:bS:370:GLU:CD	2.43	0.43
1:PU:324:VAL:CG1	1:PU:330:LEU:HD21	2.48	0.43
1:PU:501:VAL:O	1:PU:504:ASN:ND2	2.51	0.43
1:cV:178:ALA:HB3	1:cV:372:GLN:HG2	2.00	0.43
1:cV:240:SER:HB3	1:cV:321:LEU:HD21	2.00	0.43
1:EX:64:ALA:HB1	1:EX:149:VAL:HA	2.01	0.43
1:EX:66:ALA:O	1:EX:70:ASP:OD1	2.36	0.43
1:Y1:9:ILE:CD1	1:Z9:464:ALA:HA	2.49	0.43
1:Y1:66:ALA:O	1:Y1:70:ASP:OD1	2.36	0.43
1:Q2:178:ALA:CB	1:Q2:372:GLN:HG2	2.48	0.43
1:Q2:355:ALA:O	1:Q2:359:GLN:HG2	2.19	0.43
1:Q2:501:VAL:O	1:Q2:504:ASN:ND2	2.51	0.43
1:I3:464:ALA:HA	1:HL:9:ILE:CD1	2.47	0.43
1:R4:355:ALA:O	1:R4:359:GLN:HG2	2.19	0.43
1:g6:324:VAL:CG1	1:g6:330:LEU:HD21	2.49	0.43
1:g6:422:VAL:O	1:g6:426:ILE:HG13	2.19	0.43
1:g6:471:ASP:CB	1:fK:4:GLN:HG2	2.43	0.43
1:A7:64:ALA:HB1	1:A7:149:VAL:HA	2.01	0.43
1:A7:85:GLN:NE2	1:A7:138:LEU:HD13	2.34	0.43
1:e8:294:LYS:HE2	1:e8:294:LYS:HB2	1.69	0.43
1:Z9:66:ALA:O	1:Z9:70:ASP:OD1	2.36	0.43
1:FB:9:ILE:CD1	1:EX:464:ALA:HA	2.49	0.43
1:FB:64:ALA:HB1	1:FB:149:VAL:HA	2.01	0.43
1:dC:64:ALA:HB1	1:dC:149:VAL:HA	2.01	0.43
1:dC:240:SER:HB3	1:dC:321:LEU:HD21	2.01	0.43
1:JD:76:GLN:HG3	1:JD:445:GLN:OE1	2.18	0.43
1:JD:178:ALA:CB	1:JD:372:GLN:HG2	2.48	0.43
1:JD:223:LYS:HG3	1:NI:141:GLN:HG2	2.01	0.43
1:LF:240:SER:HB3	1:LF:321:LEU:HD21	2.01	0.43
1:WG:37:ARG:HB2	1:WG:472:VAL:HA	2.00	0.43
1:UH:8:ASN:ND2	1:UH:11:ALA:HB2	2.34	0.43
1:UH:321:LEU:HB3	1:UH:330:LEU:HD12	2.00	0.43
1:NI:147:PHE:O	1:NI:156:SER:HB2	2.19	0.43
1:NI:457:ILE:HG21	1:PU:80:LYS:CG	2.48	0.43
1:fK:14:ALA:CB	1:fK:495:MET:HG2	2.48	0.43
1:XM:191:LYS:HE2	1:XM:191:LYS:HB3	1.73	0.43
1:DN:178:ALA:HB3	1:DN:372:GLN:HG2	2.00	0.43
1:TP:321:LEU:HB3	1:TP:330:LEU:HD12	2.00	0.43
1:GQ:141:GLN:HG2	1:EX:223:LYS:CG	2.49	0.43
1:VR:76:GLN:HG3	1:VR:445:GLN:OE1	2.18	0.43
1:bS:64:ALA:HB1	1:bS:149:VAL:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:85:GLN:NE2	1:bS:138:LEU:HD13	2.34	0.43
1:CT:64:ALA:HB1	1:CT:149:VAL:HA	2.01	0.43
1:CT:85:GLN:NE2	1:CT:138:LEU:HD13	2.34	0.43
1:CT:361:LEU:HB2	1:CT:370:GLU:CD	2.43	0.43
1:PU:178:ALA:CB	1:PU:372:GLN:HG2	2.48	0.43
1:PU:239:THR:CG2	1:PU:400:ASN:HD21	2.26	0.43
1:cV:64:ALA:HB1	1:cV:149:VAL:HA	2.01	0.43
1:Y1:20:LEU:HD23	1:Y1:20:LEU:HA	1.90	0.43
1:Y1:64:ALA:HB1	1:Y1:149:VAL:HA	2.01	0.43
1:Y1:147:PHE:O	1:Y1:156:SER:HB2	2.19	0.43
1:Y1:294:LYS:HD3	1:XM:200:THR:HB	1.99	0.43
1:Y1:324:VAL:CG1	1:Y1:330:LEU:HD21	2.49	0.43
1:Q2:64:ALA:HB1	1:Q2:149:VAL:HA	2.01	0.43
1:Q2:287:VAL:CG1	1:Q2:299:LEU:HB3	2.49	0.43
1:Q2:324:VAL:CG1	1:Q2:330:LEU:HD21	2.49	0.43
1:R4:287:VAL:CG1	1:R4:299:LEU:HB3	2.49	0.43
1:R4:324:VAL:CG1	1:R4:330:LEU:HD21	2.49	0.43
1:R4:501:VAL:O	1:R4:504:ASN:ND2	2.51	0.43
1:g6:354:SER:N	1:g6:359:GLN:HE21	2.14	0.43
1:A7:287:VAL:CG1	1:A7:299:LEU:HB3	2.49	0.43
1:e8:506:LEU:H	1:e8:506:LEU:CD1	2.28	0.43
1:Z9:64:ALA:HB1	1:Z9:149:VAL:HA	2.01	0.43
1:Z9:147:PHE:O	1:Z9:156:SER:HB2	2.19	0.43
1:Z9:324:VAL:CG1	1:Z9:330:LEU:HD21	2.49	0.43
1:OA:147:PHE:O	1:OA:156:SER:HB2	2.19	0.43
1:OA:361:LEU:HB2	1:OA:370:GLU:CD	2.43	0.43
1:OA:422:VAL:O	1:OA:426:ILE:HG13	2.19	0.43
1:FB:178:ALA:CB	1:FB:372:GLN:HG2	2.48	0.43
1:FB:178:ALA:HB3	1:FB:372:GLN:HG2	2.00	0.43
1:dC:54:LEU:CD1	1:dC:469:ILE:HD12	2.49	0.43
1:dC:85:GLN:NE2	1:dC:138:LEU:HD13	2.34	0.43
1:dC:178:ALA:CB	1:dC:372:GLN:HG2	2.48	0.43
1:dC:361:LEU:HB2	1:dC:370:GLU:CD	2.43	0.43
1:JD:287:VAL:CG1	1:JD:299:LEU:HB3	2.49	0.43
1:KE:76:GLN:HG3	1:KE:445:GLN:OE1	2.18	0.43
1:KE:240:SER:HB3	1:KE:321:LEU:HD21	2.01	0.43
1:KE:287:VAL:CG1	1:KE:299:LEU:HB3	2.49	0.43
1:LF:76:GLN:HG3	1:LF:445:GLN:OE1	2.18	0.43
1:LF:287:VAL:CG1	1:LF:299:LEU:HB3	2.49	0.43
1:LF:309:ILE:HD12	1:LF:309:ILE:HA	1.88	0.43
1:LF:501:VAL:O	1:LF:504:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WG:76:GLN:HG3	1:WG:445:GLN:OE1	2.18	0.43
1:WG:471:ASP:CB	1:XM:4:GLN:HG2	2.48	0.43
1:NI:464:ALA:HA	1:MO:9:ILE:CD1	2.49	0.43
1:NI:497:GLN:HG3	1:PU:481:PHE:CE2	2.53	0.43
1:BJ:85:GLN:NE2	1:BJ:138:LEU:HD13	2.34	0.43
1:BJ:309:ILE:HD12	1:BJ:309:ILE:HA	1.88	0.43
1:XM:361:LEU:HB2	1:XM:370:GLU:CD	2.43	0.43
1:MO:147:PHE:O	1:MO:156:SER:HB2	2.19	0.43
1:TP:8:ASN:ND2	1:TP:11:ALA:HB2	2.34	0.43
1:TP:85:GLN:NE2	1:TP:138:LEU:HD13	2.34	0.43
1:GQ:85:GLN:NE2	1:GQ:138:LEU:HD13	2.34	0.43
1:GQ:178:ALA:HB3	1:GQ:372:GLN:HG2	2.00	0.43
1:VR:37:ARG:HB2	1:VR:472:VAL:HA	2.00	0.43
1:bS:240:SER:HB3	1:bS:321:LEU:HD21	2.01	0.43
1:CT:287:VAL:CG1	1:CT:299:LEU:HB3	2.49	0.43
1:PU:309:ILE:HD12	1:PU:309:ILE:HA	1.88	0.43
1:PU:355:ALA:O	1:PU:359:GLN:HG2	2.19	0.43
1:PU:455:ILE:HD13	1:PU:455:ILE:HA	1.88	0.43
1:cV:85:GLN:NE2	1:cV:138:LEU:HD13	2.34	0.43
1:cV:361:LEU:HB2	1:cV:370:GLU:CD	2.43	0.43
1:aW:66:ALA:O	1:aW:70:ASP:OD1	2.36	0.43
1:EX:178:ALA:CB	1:EX:372:GLN:HG2	2.48	0.43
1:EX:178:ALA:HB3	1:EX:372:GLN:HG2	2.00	0.43
1:Y1:8:ASN:ND2	1:Y1:11:ALA:HB2	2.34	0.43
1:Q2:321:LEU:HB3	1:Q2:330:LEU:HD12	2.00	0.43
1:Q2:422:VAL:O	1:Q2:426:ILE:HG13	2.19	0.43
1:S5:147:PHE:O	1:S5:156:SER:HB2	2.19	0.43
1:g6:506:LEU:H	1:g6:506:LEU:CD1	2.28	0.43
1:A7:8:ASN:ND2	1:A7:11:ALA:HB2	2.34	0.43
1:A7:497:GLN:HG3	1:FB:481:PHE:CE2	2.54	0.43
1:e8:147:PHE:O	1:e8:156:SER:HB2	2.19	0.43
1:Z9:8:ASN:ND2	1:Z9:11:ALA:HB2	2.34	0.43
1:OA:8:ASN:ND2	1:OA:11:ALA:HB2	2.34	0.43
1:OA:76:GLN:HG3	1:OA:445:GLN:OE1	2.18	0.43
1:OA:78:ALA:C	1:OA:82:MET:HE2	2.44	0.43
1:FB:422:VAL:O	1:FB:426:ILE:HG13	2.19	0.43
1:dC:66:ALA:O	1:dC:70:ASP:OD1	2.36	0.43
1:dC:82:MET:CE	1:dC:441:LEU:HD12	2.20	0.43
1:JD:191:LYS:HE2	1:JD:191:LYS:HB3	1.73	0.43
1:JD:481:PHE:CE2	1:HL:497:GLN:HG3	2.53	0.43
1:KE:191:LYS:HE2	1:KE:191:LYS:HB3	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:501:VAL:O	1:KE:504:ASN:ND2	2.51	0.43
1:LF:85:GLN:NE2	1:LF:138:LEU:HD13	2.34	0.43
1:WG:78:ALA:C	1:WG:82:MET:HE2	2.44	0.43
1:WG:191:LYS:HE2	1:WG:191:LYS:HB3	1.74	0.43
1:UH:287:VAL:CG1	1:UH:299:LEU:HB3	2.49	0.43
1:NI:8:ASN:ND2	1:NI:11:ALA:HB2	2.34	0.43
1:NI:78:ALA:C	1:NI:82:MET:HE2	2.44	0.43
1:BJ:8:ASN:ND2	1:BJ:11:ALA:HB2	2.34	0.43
1:BJ:287:VAL:CG1	1:BJ:299:LEU:HB3	2.49	0.43
1:BJ:455:ILE:HD13	1:BJ:455:ILE:HA	1.87	0.43
1:fK:506:LEU:H	1:fK:506:LEU:CD1	2.28	0.43
1:XM:78:ALA:C	1:XM:82:MET:HE2	2.44	0.43
1:DN:178:ALA:CB	1:DN:372:GLN:HG2	2.48	0.43
1:MO:8:ASN:ND2	1:MO:11:ALA:HB2	2.34	0.43
1:MO:422:VAL:O	1:MO:426:ILE:HG13	2.19	0.43
1:VR:78:ALA:C	1:VR:82:MET:HE2	2.44	0.43
1:bS:54:LEU:CD1	1:bS:469:ILE:HD12	2.49	0.43
1:bS:66:ALA:O	1:bS:70:ASP:OD1	2.36	0.43
1:bS:422:VAL:O	1:bS:426:ILE:HG13	2.19	0.43
1:CT:8:ASN:ND2	1:CT:11:ALA:HB2	2.34	0.43
1:CT:178:ALA:CB	1:CT:372:GLN:HG2	2.48	0.43
1:PU:64:ALA:HB1	1:PU:149:VAL:HA	2.01	0.43
1:PU:287:VAL:CG1	1:PU:299:LEU:HB3	2.49	0.43
1:cV:54:LEU:CD1	1:cV:469:ILE:HD12	2.49	0.43
1:cV:66:ALA:O	1:cV:70:ASP:OD1	2.36	0.43
1:cV:422:VAL:O	1:cV:426:ILE:HG13	2.19	0.43
1:aW:147:PHE:O	1:aW:156:SER:HB2	2.19	0.43
1:aW:361:LEU:HB2	1:aW:370:GLU:CD	2.43	0.43
1:EX:422:VAL:O	1:EX:426:ILE:HG13	2.19	0.43
1:Y1:287:VAL:CG1	1:Y1:299:LEU:HB3	2.49	0.43
1:Y1:293:GLN:HB2	1:XM:224:ASN:OD1	2.19	0.43
1:Q2:239:THR:CG2	1:Q2:400:ASN:HD21	2.26	0.43
1:I3:85:GLN:NE2	1:I3:138:LEU:HD13	2.34	0.43
1:I3:147:PHE:O	1:I3:156:SER:HB2	2.19	0.43
1:I3:178:ALA:HB3	1:I3:372:GLN:HG2	2.00	0.43
1:R4:422:VAL:O	1:R4:426:ILE:HG13	2.19	0.43
1:S5:4:GLN:HG2	1:TP:471:ASP:CB	2.45	0.43
1:S5:54:LEU:CD1	1:S5:469:ILE:HD12	2.49	0.43
1:S5:82:MET:HE3	1:S5:82:MET:HB2	1.82	0.43
1:S5:85:GLN:NE2	1:S5:138:LEU:HD13	2.34	0.43
1:S5:287:VAL:CG1	1:S5:299:LEU:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:66:ALA:O	1:g6:70:ASP:OD1	2.36	0.43
1:g6:94:VAL:O	1:fK:63:GLN:HG2	2.19	0.43
1:g6:355:ALA:O	1:g6:359:GLN:HG2	2.19	0.43
1:A7:20:LEU:HD23	1:A7:20:LEU:HA	1.91	0.43
1:A7:355:ALA:O	1:A7:359:GLN:HG2	2.19	0.43
1:OA:237:ILE:HB	1:OA:399:TYR:HB3	1.99	0.43
1:OA:355:ALA:O	1:OA:359:GLN:HG2	2.19	0.43
1:FB:287:VAL:CG1	1:FB:299:LEU:HB3	2.49	0.43
1:dC:16:VAL:HG11	1:cV:457:ILE:CD1	2.49	0.43
1:dC:422:VAL:O	1:dC:426:ILE:HG13	2.19	0.43
1:JD:85:GLN:NE2	1:JD:138:LEU:HD13	2.34	0.43
1:JD:501:VAL:O	1:JD:504:ASN:ND2	2.51	0.43
1:KE:178:ALA:CB	1:KE:372:GLN:HG2	2.48	0.43
1:WG:64:ALA:HB1	1:WG:149:VAL:HA	2.01	0.43
1:WG:361:LEU:HB2	1:WG:370:GLU:CD	2.43	0.43
1:WG:506:LEU:H	1:WG:506:LEU:CD1	2.28	0.43
1:UH:85:GLN:NE2	1:UH:138:LEU:HD13	2.34	0.43
1:UH:147:PHE:O	1:UH:156:SER:HB2	2.19	0.43
1:UH:355:ALA:O	1:UH:359:GLN:HG2	2.19	0.43
1:NI:76:GLN:HG3	1:NI:445:GLN:OE1	2.18	0.43
1:NI:361:LEU:HB2	1:NI:370:GLU:CD	2.43	0.43
1:NI:422:VAL:O	1:NI:426:ILE:HG13	2.19	0.43
1:BJ:178:ALA:CB	1:BJ:372:GLN:HG2	2.48	0.43
1:BJ:200:THR:HB	1:EX:294:LYS:HD3	2.00	0.43
1:BJ:355:ALA:O	1:BJ:359:GLN:HG2	2.19	0.43
1:fK:147:PHE:O	1:fK:156:SER:HB2	2.19	0.43
1:fK:355:ALA:O	1:fK:359:GLN:HG2	2.19	0.43
1:HL:85:GLN:NE2	1:HL:138:LEU:HD13	2.34	0.43
1:HL:147:PHE:O	1:HL:156:SER:HB2	2.19	0.43
1:HL:178:ALA:HB3	1:HL:372:GLN:HG2	2.00	0.43
1:XM:54:LEU:CD1	1:XM:469:ILE:HD12	2.49	0.43
1:XM:64:ALA:HB1	1:XM:149:VAL:HA	2.01	0.43
1:XM:76:GLN:HG3	1:XM:445:GLN:OE1	2.18	0.43
1:XM:506:LEU:H	1:XM:506:LEU:CD1	2.28	0.43
1:DN:237:ILE:HB	1:DN:399:TYR:HB3	1.99	0.43
1:DN:287:VAL:CG1	1:DN:299:LEU:HB3	2.49	0.43
1:DN:422:VAL:O	1:DN:426:ILE:HG13	2.19	0.43
1:MO:54:LEU:CD1	1:MO:469:ILE:HD12	2.49	0.43
1:MO:76:GLN:HG3	1:MO:445:GLN:OE1	2.18	0.43
1:MO:78:ALA:C	1:MO:82:MET:HE2	2.44	0.43
1:TP:147:PHE:O	1:TP:156:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:54:LEU:CD1	1:VR:469:ILE:HD12	2.49	0.43
1:VR:309:ILE:HD12	1:VR:309:ILE:HA	1.88	0.43
1:bS:287:VAL:CG1	1:bS:299:LEU:HB3	2.49	0.43
1:CT:66:ALA:O	1:CT:70:ASP:OD1	2.36	0.43
1:PU:37:ARG:HB2	1:PU:472:VAL:HA	2.00	0.43
1:PU:321:LEU:HB3	1:PU:330:LEU:HD12	2.00	0.43
1:PU:422:VAL:O	1:PU:426:ILE:HG13	2.19	0.43
1:cV:82:MET:CE	1:cV:441:LEU:HD12	2.20	0.43
1:cV:178:ALA:CB	1:cV:372:GLN:HG2	2.48	0.43
1:aW:8:ASN:ND2	1:aW:11:ALA:HB2	2.34	0.43
1:aW:64:ALA:HB1	1:aW:149:VAL:HA	2.01	0.43
1:EX:287:VAL:CG1	1:EX:299:LEU:HB3	2.49	0.43
1:Y1:63:GLN:HG2	1:Z9:94:VAL:O	2.19	0.43
1:Y1:361:LEU:HB2	1:Y1:370:GLU:CD	2.43	0.43
1:Q2:37:ARG:HB2	1:Q2:472:VAL:HA	2.00	0.43
1:Q2:293:GLN:HB2	1:MO:224:ASN:OD1	2.19	0.43
1:Q2:309:ILE:HD12	1:Q2:309:ILE:HA	1.88	0.43
1:I3:8:ASN:ND2	1:I3:11:ALA:HB2	2.34	0.43
1:R4:85:GLN:NE2	1:R4:138:LEU:HD13	2.34	0.43
1:R4:293:GLN:HG2	1:R4:294:LYS:N	2.33	0.43
1:R4:321:LEU:HB3	1:R4:330:LEU:HD12	2.00	0.43
1:g6:147:PHE:O	1:g6:156:SER:HB2	2.19	0.43
1:g6:178:ALA:HB3	1:g6:372:GLN:HG2	2.00	0.43
1:g6:501:VAL:O	1:g6:504:ASN:ND2	2.51	0.43
1:A7:82:MET:HE3	1:A7:82:MET:HB2	1.82	0.43
1:A7:178:ALA:CB	1:A7:372:GLN:HG2	2.48	0.43
1:A7:324:VAL:CG1	1:A7:330:LEU:HD21	2.49	0.43
1:e8:66:ALA:O	1:e8:70:ASP:OD1	2.36	0.43
1:e8:355:ALA:O	1:e8:359:GLN:HG2	2.19	0.43
1:e8:501:VAL:O	1:e8:504:ASN:ND2	2.51	0.43
1:Z9:287:VAL:CG1	1:Z9:299:LEU:HB3	2.49	0.43
1:Z9:361:LEU:HB2	1:Z9:370:GLU:CD	2.43	0.43
1:OA:54:LEU:CD1	1:OA:469:ILE:HD12	2.49	0.43
1:OA:80:LYS:CB	1:JD:457:ILE:HG21	2.48	0.43
1:OA:85:GLN:NE2	1:OA:138:LEU:HD13	2.34	0.43
1:OA:457:ILE:CD1	1:NI:16:VAL:HG11	2.48	0.43
1:FB:141:GLN:HG2	1:BJ:223:LYS:CG	2.49	0.43
1:FB:237:ILE:HB	1:FB:399:TYR:HB3	1.99	0.43
1:dC:457:ILE:HD13	1:dC:457:ILE:HA	1.86	0.43
1:JD:178:ALA:HB3	1:JD:372:GLN:HG2	2.00	0.43
1:JD:422:VAL:O	1:JD:426:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:85:GLN:NE2	1:KE:138:LEU:HD13	2.34	0.43
1:KE:178:ALA:HB3	1:KE:372:GLN:HG2	2.00	0.43
1:LF:178:ALA:CB	1:LF:372:GLN:HG2	2.48	0.43
1:LF:178:ALA:HB3	1:LF:372:GLN:HG2	2.00	0.43
1:LF:191:LYS:HE2	1:LF:191:LYS:HB3	1.73	0.43
1:LF:293:GLN:HG2	1:LF:294:LYS:N	2.33	0.43
1:WG:54:LEU:CD1	1:WG:469:ILE:HD12	2.49	0.43
1:UH:54:LEU:CD1	1:UH:469:ILE:HD12	2.49	0.43
1:UH:76:GLN:HG3	1:UH:445:GLN:OE1	2.18	0.43
1:UH:471:ASP:CB	1:TP:4:GLN:HG2	2.44	0.43
1:UH:475:ALA:HA	1:TP:507:ARG:HE	1.84	0.43
1:NI:54:LEU:CD1	1:NI:469:ILE:HD12	2.49	0.43
1:NI:355:ALA:O	1:NI:359:GLN:HG2	2.19	0.43
1:BJ:16:VAL:HG11	1:CT:457:ILE:CD1	2.49	0.43
1:BJ:66:ALA:O	1:BJ:70:ASP:OD1	2.36	0.43
1:fK:66:ALA:O	1:fK:70:ASP:OD1	2.36	0.43
1:HL:8:ASN:ND2	1:HL:11:ALA:HB2	2.34	0.43
1:XM:324:VAL:CG1	1:XM:330:LEU:HD21	2.49	0.43
1:DN:361:LEU:HB2	1:DN:370:GLU:CD	2.43	0.43
1:MO:85:GLN:NE2	1:MO:138:LEU:HD13	2.34	0.43
1:MO:457:ILE:HD13	1:MO:457:ILE:HA	1.86	0.43
1:TP:54:LEU:CD1	1:TP:469:ILE:HD12	2.49	0.43
1:TP:287:VAL:CG1	1:TP:299:LEU:HB3	2.49	0.43
1:TP:355:ALA:O	1:TP:359:GLN:HG2	2.19	0.43
1:GQ:147:PHE:O	1:GQ:156:SER:HB2	2.19	0.43
1:GQ:287:VAL:CG1	1:GQ:299:LEU:HB3	2.49	0.43
1:VR:64:ALA:HB1	1:VR:149:VAL:HA	2.01	0.43
1:VR:191:LYS:HE2	1:VR:191:LYS:HB3	1.74	0.43
1:bS:82:MET:CE	1:bS:441:LEU:HD12	2.20	0.43
1:bS:178:ALA:CB	1:bS:372:GLN:HG2	2.48	0.43
1:bS:350:ILE:HG22	1:bS:352:VAL:HG23	2.01	0.43
1:CT:355:ALA:O	1:CT:359:GLN:HG2	2.19	0.43
1:cV:457:ILE:HD13	1:cV:457:ILE:HA	1.86	0.43
1:aW:240:SER:HB3	1:aW:321:LEU:HD21	2.01	0.43
1:EX:237:ILE:HB	1:EX:399:TYR:HB3	1.99	0.43
1:EX:361:LEU:HB2	1:EX:370:GLU:CD	2.43	0.43
1:Y1:240:SER:HB3	1:Y1:321:LEU:HD21	2.01	0.42
1:Q2:85:GLN:NE2	1:Q2:138:LEU:HD13	2.34	0.42
1:I3:237:ILE:HB	1:I3:399:TYR:HB3	1.99	0.42
1:R4:37:ARG:HB2	1:R4:472:VAL:HA	2.00	0.42
1:R4:239:THR:CG2	1:R4:400:ASN:HD21	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:64:ALA:HB1	1:S5:149:VAL:HA	2.01	0.42
1:S5:355:ALA:O	1:S5:359:GLN:HG2	2.19	0.42
1:g6:80:LYS:CB	1:bS:457:ILE:HG21	2.49	0.42
1:g6:457:ILE:CD1	1:fK:16:VAL:HG11	2.49	0.42
1:A7:54:LEU:CD1	1:A7:469:ILE:HD12	2.49	0.42
1:A7:66:ALA:O	1:A7:70:ASP:OD1	2.36	0.42
1:A7:350:ILE:HG22	1:A7:352:VAL:HG23	2.01	0.42
1:e8:82:MET:HE3	1:e8:82:MET:HB2	1.82	0.42
1:Z9:54:LEU:CD1	1:Z9:469:ILE:HD12	2.49	0.42
1:Z9:240:SER:HB3	1:Z9:321:LEU:HD21	2.01	0.42
1:Z9:422:VAL:O	1:Z9:426:ILE:HG13	2.19	0.42
1:OA:240:SER:HB3	1:OA:321:LEU:HD21	2.01	0.42
1:OA:321:LEU:HB3	1:OA:330:LEU:HD12	2.00	0.42
1:dC:350:ILE:HG22	1:dC:352:VAL:HG23	2.01	0.42
1:dC:355:ALA:O	1:dC:359:GLN:HG2	2.19	0.42
1:JD:237:ILE:HB	1:JD:399:TYR:HB3	1.99	0.42
1:JD:438:ARG:HB3	1:KE:48:MET:CE	2.44	0.42
1:KE:422:VAL:O	1:KE:426:ILE:HG13	2.19	0.42
1:WG:324:VAL:CG1	1:WG:330:LEU:HD21	2.49	0.42
1:UH:64:ALA:HB1	1:UH:149:VAL:HA	2.01	0.42
1:UH:422:VAL:O	1:UH:426:ILE:HG13	2.19	0.42
1:NI:85:GLN:NE2	1:NI:138:LEU:HD13	2.34	0.42
1:NI:237:ILE:HB	1:NI:399:TYR:HB3	1.99	0.42
1:NI:498:ALA:O	1:NI:501:VAL:HG13	2.19	0.42
1:BJ:54:LEU:CD1	1:BJ:469:ILE:HD12	2.49	0.42
1:BJ:82:MET:HE3	1:BJ:82:MET:HB2	1.82	0.42
1:BJ:324:VAL:CG1	1:BJ:330:LEU:HD21	2.49	0.42
1:BJ:350:ILE:HG22	1:BJ:352:VAL:HG23	2.01	0.42
1:fK:178:ALA:HB3	1:fK:372:GLN:HG2	2.00	0.42
1:fK:457:ILE:HG21	1:CT:80:LYS:CG	2.49	0.42
1:fK:501:VAL:O	1:fK:504:ASN:ND2	2.51	0.42
1:HL:237:ILE:HB	1:HL:399:TYR:HB3	1.99	0.42
1:HL:287:VAL:CG1	1:HL:299:LEU:HB3	2.49	0.42
1:HL:294:LYS:HD3	1:EX:200:THR:HB	2.00	0.42
1:DN:324:VAL:CG1	1:DN:330:LEU:HD21	2.49	0.42
1:MO:237:ILE:HB	1:MO:399:TYR:HB3	1.99	0.42
1:MO:355:ALA:O	1:MO:359:GLN:HG2	2.19	0.42
1:MO:361:LEU:HB2	1:MO:370:GLU:CD	2.43	0.42
1:MO:498:ALA:O	1:MO:501:VAL:HG13	2.19	0.42
1:TP:82:MET:HE3	1:TP:82:MET:HB2	1.82	0.42
1:TP:422:VAL:O	1:TP:426:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:8:ASN:ND2	1:GQ:11:ALA:HB2	2.34	0.42
1:VR:350:ILE:HG22	1:VR:352:VAL:HG23	2.01	0.42
1:VR:361:LEU:HB2	1:VR:370:GLU:CD	2.43	0.42
1:VR:506:LEU:H	1:VR:506:LEU:CD1	2.28	0.42
1:bS:37:ARG:HB2	1:bS:472:VAL:HA	2.00	0.42
1:CT:350:ILE:HG22	1:CT:352:VAL:HG23	2.01	0.42
1:PU:85:GLN:NE2	1:PU:138:LEU:HD13	2.34	0.42
1:PU:380:LEU:HA	1:PU:426:ILE:CG2	2.49	0.42
1:cV:287:VAL:CG1	1:cV:299:LEU:HB3	2.49	0.42
1:aW:54:LEU:CD1	1:aW:469:ILE:HD12	2.49	0.42
1:aW:422:VAL:O	1:aW:426:ILE:HG13	2.19	0.42
1:Y1:78:ALA:C	1:Y1:82:MET:HE2	2.44	0.42
1:Y1:422:VAL:O	1:Y1:426:ILE:HG13	2.19	0.42
1:Q2:293:GLN:HG2	1:Q2:294:LYS:N	2.33	0.42
1:I3:287:VAL:CG1	1:I3:299:LEU:HB3	2.49	0.42
1:R4:78:ALA:C	1:R4:82:MET:HE2	2.44	0.42
1:R4:380:LEU:HA	1:R4:426:ILE:CG2	2.49	0.42
1:S5:422:VAL:O	1:S5:426:ILE:HG13	2.19	0.42
1:S5:498:ALA:O	1:S5:501:VAL:HG13	2.19	0.42
1:g6:54:LEU:CD1	1:g6:469:ILE:HD12	2.49	0.42
1:A7:48:MET:CE	1:BJ:438:ARG:HB3	2.45	0.42
1:A7:294:LYS:HE2	1:A7:294:LYS:HB2	1.69	0.42
1:A7:309:ILE:HD12	1:A7:309:ILE:HA	1.88	0.42
1:e8:178:ALA:HB3	1:e8:372:GLN:HG2	2.00	0.42
1:Z9:85:GLN:NE2	1:Z9:138:LEU:HD13	2.34	0.42
1:OA:498:ALA:O	1:OA:501:VAL:HG13	2.19	0.42
1:FB:498:ALA:O	1:FB:501:VAL:HG13	2.19	0.42
1:dC:37:ARG:HB2	1:dC:472:VAL:HA	2.00	0.42
1:dC:287:VAL:CG1	1:dC:299:LEU:HB3	2.49	0.42
1:dC:354:SER:N	1:dC:359:GLN:HE21	2.14	0.42
1:KE:80:LYS:CB	1:GQ:457:ILE:HG21	2.48	0.42
1:KE:237:ILE:HB	1:KE:399:TYR:HB3	1.99	0.42
1:KE:293:GLN:HG2	1:KE:294:LYS:N	2.33	0.42
1:LF:158:LYS:HE2	1:LF:158:LYS:HB2	1.81	0.42
1:LF:237:ILE:HB	1:LF:399:TYR:HB3	1.99	0.42
1:LF:422:VAL:O	1:LF:426:ILE:HG13	2.19	0.42
1:LF:433:MET:HE2	1:LF:433:MET:HB3	1.74	0.42
1:LF:457:ILE:HG21	1:MO:80:LYS:CB	2.48	0.42
1:WG:309:ILE:HD12	1:WG:309:ILE:HA	1.89	0.42
1:WG:350:ILE:HG22	1:WG:352:VAL:HG23	2.01	0.42
1:WG:507:ARG:HE	1:VR:475:ALA:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:223:LYS:HG3	1:VR:141:GLN:HG2	2.00	0.42
1:NI:240:SER:HB3	1:NI:321:LEU:HD21	2.01	0.42
1:BJ:158:LYS:HE2	1:BJ:158:LYS:HB2	1.81	0.42
1:BJ:294:LYS:HB2	1:BJ:294:LYS:HE2	1.69	0.42
1:fK:54:LEU:CD1	1:fK:469:ILE:HD12	2.49	0.42
1:fK:82:MET:HE3	1:fK:82:MET:HB2	1.82	0.42
1:HL:350:ILE:HG22	1:HL:352:VAL:HG23	2.01	0.42
1:XM:350:ILE:HG22	1:XM:352:VAL:HG23	2.01	0.42
1:XM:355:ALA:O	1:XM:359:GLN:HG2	2.19	0.42
1:DN:498:ALA:O	1:DN:501:VAL:HG13	2.19	0.42
1:MO:240:SER:HB3	1:MO:321:LEU:HD21	2.01	0.42
1:MO:321:LEU:HB3	1:MO:330:LEU:HD12	2.00	0.42
1:TP:76:GLN:HG3	1:TP:445:GLN:OE1	2.18	0.42
1:TP:498:ALA:O	1:TP:501:VAL:HG13	2.19	0.42
1:GQ:237:ILE:HB	1:GQ:399:TYR:HB3	1.99	0.42
1:GQ:350:ILE:HG22	1:GQ:352:VAL:HG23	2.01	0.42
1:VR:324:VAL:CG1	1:VR:330:LEU:HD21	2.48	0.42
1:CT:54:LEU:CD1	1:CT:469:ILE:HD12	2.49	0.42
1:CT:82:MET:HE3	1:CT:82:MET:HB2	1.82	0.42
1:cV:350:ILE:HG22	1:cV:352:VAL:HG23	2.02	0.42
1:aW:85:GLN:NE2	1:aW:138:LEU:HD13	2.34	0.42
1:aW:287:VAL:CG1	1:aW:299:LEU:HB3	2.49	0.42
1:EX:324:VAL:CG1	1:EX:330:LEU:HD21	2.49	0.42
1:EX:498:ALA:O	1:EX:501:VAL:HG13	2.19	0.42
1:Y1:54:LEU:CD1	1:Y1:469:ILE:HD12	2.49	0.42
1:Y1:85:GLN:NE2	1:Y1:138:LEU:HD13	2.34	0.42
1:Y1:354:SER:N	1:Y1:359:GLN:HE21	2.14	0.42
1:Y1:507:ARG:HE	1:Z9:475:ALA:HA	1.83	0.42
1:Q2:78:ALA:C	1:Q2:82:MET:HE2	2.44	0.42
1:Q2:380:LEU:HA	1:Q2:426:ILE:CG2	2.50	0.42
1:I3:355:ALA:O	1:I3:359:GLN:HG2	2.19	0.42
1:S5:76:GLN:HG3	1:S5:445:GLN:OE1	2.18	0.42
1:g6:82:MET:HE3	1:g6:82:MET:HB2	1.82	0.42
1:A7:4:GLN:HG2	1:BJ:471:ASP:CB	2.48	0.42
1:A7:158:LYS:HE2	1:A7:158:LYS:HB2	1.81	0.42
1:e8:54:LEU:CD1	1:e8:469:ILE:HD12	2.49	0.42
1:Z9:63:GLN:HG2	1:aW:94:VAL:O	2.20	0.42
1:FB:12:MET:HE2	1:FB:12:MET:HB3	1.95	0.42
1:FB:324:VAL:CG1	1:FB:330:LEU:HD21	2.49	0.42
1:FB:361:LEU:HB2	1:FB:370:GLU:CD	2.43	0.42
1:JD:293:GLN:HG2	1:JD:294:LYS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:498:ALA:O	1:JD:501:VAL:HG13	2.19	0.42
1:KE:158:LYS:HE2	1:KE:158:LYS:HB2	1.81	0.42
1:KE:498:ALA:O	1:KE:501:VAL:HG13	2.19	0.42
1:LF:141:GLN:HG2	1:GQ:223:LYS:CG	2.49	0.42
1:WG:158:LYS:HE2	1:WG:158:LYS:HB2	1.80	0.42
1:WG:433:MET:HB3	1:WG:433:MET:HE2	1.74	0.42
1:WG:457:ILE:CD1	1:XM:16:VAL:HG11	2.49	0.42
1:UH:498:ALA:O	1:UH:501:VAL:HG13	2.19	0.42
1:UH:506:LEU:H	1:UH:506:LEU:CD1	2.28	0.42
1:NI:321:LEU:HB3	1:NI:330:LEU:HD12	2.00	0.42
1:NI:457:ILE:HD13	1:NI:457:ILE:HA	1.86	0.42
1:BJ:178:ALA:HB3	1:BJ:372:GLN:HG2	2.00	0.42
1:HL:54:LEU:CD1	1:HL:469:ILE:HD12	2.49	0.42
1:XM:158:LYS:HE2	1:XM:158:LYS:HB2	1.81	0.42
1:XM:422:VAL:O	1:XM:426:ILE:HG13	2.19	0.42
1:DN:81:ALA:HB1	1:DN:138:LEU:HD11	2.01	0.42
1:TP:64:ALA:HB1	1:TP:149:VAL:HA	2.01	0.42
1:GQ:54:LEU:CD1	1:GQ:469:ILE:HD12	2.49	0.42
1:VR:355:ALA:O	1:VR:359:GLN:HG2	2.19	0.42
1:VR:422:VAL:O	1:VR:426:ILE:HG13	2.19	0.42
1:bS:355:ALA:O	1:bS:359:GLN:HG2	2.19	0.42
1:CT:147:PHE:O	1:CT:156:SER:HB2	2.19	0.42
1:CT:294:LYS:HB2	1:CT:294:LYS:HE2	1.69	0.42
1:CT:324:VAL:CG1	1:CT:330:LEU:HD21	2.49	0.42
1:PU:54:LEU:CD1	1:PU:469:ILE:HD12	2.49	0.42
1:PU:147:PHE:O	1:PU:156:SER:HB2	2.19	0.42
1:cV:37:ARG:HB2	1:cV:472:VAL:HA	2.00	0.42
1:cV:355:ALA:O	1:cV:359:GLN:HG2	2.19	0.42
1:Y1:37:ARG:HB2	1:Y1:472:VAL:HA	2.00	0.42
1:Q2:54:LEU:CD1	1:Q2:469:ILE:HD12	2.49	0.42
1:Q2:147:PHE:O	1:Q2:156:SER:HB2	2.19	0.42
1:I3:54:LEU:CD1	1:I3:469:ILE:HD12	2.49	0.42
1:I3:350:ILE:HG22	1:I3:352:VAL:HG23	2.01	0.42
1:I3:380:LEU:HA	1:I3:426:ILE:CG2	2.49	0.42
1:R4:82:MET:HE3	1:R4:82:MET:HB2	1.82	0.42
1:R4:309:ILE:HD12	1:R4:309:ILE:HA	1.89	0.42
1:e8:287:VAL:CG1	1:e8:299:LEU:HB3	2.49	0.42
1:Z9:37:ARG:HB2	1:Z9:472:VAL:HA	2.00	0.42
1:Z9:78:ALA:C	1:Z9:82:MET:HE2	2.44	0.42
1:Z9:354:SER:N	1:Z9:359:GLN:HE21	2.14	0.42
1:FB:81:ALA:HB1	1:FB:138:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:85:GLN:NE2	1:FB:138:LEU:HD13	2.34	0.42
1:FB:102:ASP:HA	1:FB:109:ARG:NH2	2.35	0.42
1:FB:147:PHE:O	1:FB:156:SER:HB2	2.19	0.42
1:dC:8:ASN:ND2	1:dC:11:ALA:HB2	2.34	0.42
1:KE:457:ILE:CD1	1:LF:16:VAL:HG11	2.49	0.42
1:LF:498:ALA:O	1:LF:501:VAL:HG13	2.20	0.42
1:WG:355:ALA:O	1:WG:359:GLN:HG2	2.19	0.42
1:WG:422:VAL:O	1:WG:426:ILE:HG13	2.19	0.42
1:UH:78:ALA:C	1:UH:82:MET:HE2	2.44	0.42
1:UH:82:MET:HE3	1:UH:82:MET:HB2	1.82	0.42
1:BJ:48:MET:CE	1:CT:438:ARG:HB3	2.45	0.42
1:BJ:147:PHE:O	1:BJ:156:SER:HB2	2.19	0.42
1:HL:380:LEU:HA	1:HL:426:ILE:CG2	2.49	0.42
1:XM:287:VAL:CG1	1:XM:299:LEU:HB3	2.49	0.42
1:XM:309:ILE:HD12	1:XM:309:ILE:HA	1.88	0.42
1:DN:12:MET:HE2	1:DN:12:MET:HB3	1.95	0.42
1:DN:85:GLN:NE2	1:DN:138:LEU:HD13	2.34	0.42
1:MO:287:VAL:CG1	1:MO:299:LEU:HB3	2.49	0.42
1:MO:324:VAL:CG1	1:MO:330:LEU:HD21	2.49	0.42
1:MO:441:LEU:HD23	1:MO:441:LEU:HA	1.81	0.42
1:TP:78:ALA:C	1:TP:82:MET:HE2	2.44	0.42
1:TP:141:GLN:HG2	1:PU:223:LYS:CG	2.50	0.42
1:GQ:355:ALA:O	1:GQ:359:GLN:HG2	2.19	0.42
1:GQ:380:LEU:HA	1:GQ:426:ILE:CG2	2.50	0.42
1:VR:293:GLN:HG2	1:VR:294:LYS:N	2.33	0.42
1:bS:147:PHE:O	1:bS:156:SER:HB2	2.19	0.42
1:bS:457:ILE:HD13	1:bS:457:ILE:HA	1.86	0.42
1:CT:82:MET:CE	1:CT:441:LEU:HD12	2.20	0.42
1:CT:158:LYS:HE2	1:CT:158:LYS:HB2	1.81	0.42
1:CT:178:ALA:HB3	1:CT:372:GLN:HG2	2.00	0.42
1:CT:455:ILE:HD13	1:CT:455:ILE:HA	1.88	0.42
1:PU:78:ALA:C	1:PU:82:MET:HE2	2.44	0.42
1:cV:354:SER:N	1:cV:359:GLN:HE21	2.14	0.42
1:aW:78:ALA:C	1:aW:82:MET:HE2	2.44	0.42
1:aW:354:SER:N	1:aW:359:GLN:HE21	2.14	0.42
1:aW:355:ALA:O	1:aW:359:GLN:HG2	2.19	0.42
1:EX:12:MET:HE2	1:EX:12:MET:HB3	1.95	0.42
1:EX:81:ALA:HB1	1:EX:138:LEU:HD11	2.01	0.42
1:EX:85:GLN:NE2	1:EX:138:LEU:HD13	2.34	0.42
1:Q2:16:VAL:HG11	1:PU:457:ILE:CD1	2.49	0.42
1:Q2:82:MET:HE3	1:Q2:82:MET:HB2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:294:LYS:HD3	1:DN:200:THR:HB	2.01	0.42
1:I3:478:SER:OG	1:HL:507:ARG:HD2	2.20	0.42
1:R4:54:LEU:CD1	1:R4:469:ILE:HD12	2.49	0.42
1:R4:147:PHE:O	1:R4:156:SER:HB2	2.19	0.42
1:R4:200:THR:HB	1:S5:294:LYS:HD3	2.00	0.42
1:S5:37:ARG:HB2	1:S5:472:VAL:HA	2.00	0.42
1:S5:224:ASN:OD1	1:WG:293:GLN:HB2	2.19	0.42
1:A7:82:MET:CE	1:A7:441:LEU:HD12	2.20	0.42
1:A7:147:PHE:O	1:A7:156:SER:HB2	2.19	0.42
1:A7:178:ALA:HB3	1:A7:372:GLN:HG2	2.00	0.42
1:A7:293:GLN:HG2	1:A7:294:LYS:N	2.33	0.42
1:Z9:294:LYS:HD3	1:WG:200:THR:HB	2.00	0.42
1:Z9:355:ALA:O	1:Z9:359:GLN:HG2	2.19	0.42
1:OA:223:LYS:CG	1:PU:141:GLN:HG2	2.50	0.42
1:OA:287:VAL:CG1	1:OA:299:LEU:HB3	2.49	0.42
1:OA:380:LEU:HA	1:OA:426:ILE:CG2	2.49	0.42
1:FB:8:ASN:ND2	1:FB:11:ALA:HB2	2.34	0.42
1:JD:78:ALA:C	1:JD:82:MET:HE2	2.44	0.42
1:JD:158:LYS:HB2	1:JD:158:LYS:HE2	1.81	0.42
1:JD:471:ASP:CB	1:KE:4:GLN:HG2	2.45	0.42
1:LF:102:ASP:HA	1:LF:109:ARG:NH2	2.35	0.42
1:LF:224:ASN:OD1	1:MO:293:GLN:HB2	2.19	0.42
1:WG:273:ARG:HG3	1:WG:274:LEU:N	2.35	0.42
1:WG:287:VAL:CG1	1:WG:299:LEU:HB3	2.49	0.42
1:WG:293:GLN:HG2	1:WG:294:LYS:N	2.33	0.42
1:WG:464:ALA:HA	1:XM:9:ILE:CD1	2.47	0.42
1:UH:37:ARG:HB2	1:UH:472:VAL:HA	2.00	0.42
1:UH:273:ARG:HG3	1:UH:274:LEU:N	2.35	0.42
1:NI:287:VAL:CG1	1:NI:299:LEU:HB3	2.49	0.42
1:BJ:82:MET:CE	1:BJ:441:LEU:HD12	2.20	0.42
1:BJ:102:ASP:HA	1:BJ:109:ARG:NH2	2.35	0.42
1:BJ:293:GLN:HG2	1:BJ:294:LYS:N	2.33	0.42
1:fK:287:VAL:CG1	1:fK:299:LEU:HB3	2.49	0.42
1:fK:293:GLN:HG2	1:fK:294:LYS:N	2.33	0.42
1:HL:102:ASP:HA	1:HL:109:ARG:NH2	2.35	0.42
1:HL:355:ALA:O	1:HL:359:GLN:HG2	2.19	0.42
1:XM:82:MET:HE3	1:XM:82:MET:HB2	1.82	0.42
1:DN:8:ASN:ND2	1:DN:11:ALA:HB2	2.34	0.42
1:DN:102:ASP:HA	1:DN:109:ARG:NH2	2.35	0.42
1:MO:214:ILE:HD12	1:MO:214:ILE:HA	1.88	0.42
1:TP:506:LEU:H	1:TP:506:LEU:CD1	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:102:ASP:HA	1:GQ:109:ARG:NH2	2.35	0.42
1:VR:147:PHE:O	1:VR:156:SER:HB2	2.19	0.42
1:VR:158:LYS:HE2	1:VR:158:LYS:HB2	1.81	0.42
1:VR:273:ARG:HG3	1:VR:274:LEU:N	2.35	0.42
1:bS:8:ASN:ND2	1:bS:11:ALA:HB2	2.34	0.42
1:CT:223:LYS:HG3	1:EX:141:GLN:HG2	2.00	0.42
1:PU:293:GLN:HG2	1:PU:294:LYS:N	2.33	0.42
1:cV:8:ASN:ND2	1:cV:11:ALA:HB2	2.34	0.42
1:aW:37:ARG:HB2	1:aW:472:VAL:HA	2.00	0.42
1:EX:8:ASN:ND2	1:EX:11:ALA:HB2	2.34	0.42
1:EX:102:ASP:HA	1:EX:109:ARG:NH2	2.35	0.42
1:EX:147:PHE:O	1:EX:156:SER:HB2	2.19	0.42
1:Q2:457:ILE:HG21	1:TP:80:LYS:CG	2.49	0.42
1:I3:80:LYS:CB	1:DN:457:ILE:HG21	2.49	0.42
1:I3:102:ASP:HA	1:I3:109:ARG:NH2	2.35	0.42
1:I3:297:LEU:HD23	1:I3:321:LEU:HD11	2.02	0.42
1:R4:240:SER:HB3	1:R4:321:LEU:HD21	2.01	0.42
1:S5:9:ILE:CD1	1:TP:464:ALA:HA	2.48	0.42
1:S5:78:ALA:C	1:S5:82:MET:HE2	2.44	0.42
1:S5:273:ARG:HG3	1:S5:274:LEU:N	2.35	0.42
1:S5:506:LEU:H	1:S5:506:LEU:CD1	2.28	0.42
1:g6:293:GLN:HG2	1:g6:294:LYS:N	2.33	0.42
1:A7:102:ASP:HA	1:A7:109:ARG:NH2	2.35	0.42
1:dC:4:GLN:HG2	1:cV:471:ASP:CB	2.49	0.42
1:dC:63:GLN:HG2	1:cV:94:VAL:O	2.20	0.42
1:JD:8:ASN:ND2	1:JD:11:ALA:HB2	2.34	0.42
1:JD:102:ASP:HA	1:JD:109:ARG:NH2	2.35	0.42
1:KE:78:ALA:C	1:KE:82:MET:HE2	2.44	0.42
1:KE:102:ASP:HA	1:KE:109:ARG:NH2	2.35	0.42
1:NI:324:VAL:CG1	1:NI:330:LEU:HD21	2.49	0.42
1:NI:380:LEU:HA	1:NI:426:ILE:CG2	2.49	0.42
1:HL:94:VAL:O	1:GQ:63:GLN:HG2	2.19	0.42
1:XM:273:ARG:HG3	1:XM:274:LEU:N	2.35	0.42
1:XM:293:GLN:HG2	1:XM:294:LYS:N	2.33	0.42
1:DN:54:LEU:CD1	1:DN:469:ILE:HD12	2.49	0.42
1:DN:54:LEU:HD12	1:DN:469:ILE:HD12	2.02	0.42
1:DN:350:ILE:HG22	1:DN:352:VAL:HG23	2.01	0.42
1:MO:54:LEU:HD12	1:MO:469:ILE:HD12	2.02	0.42
1:TP:37:ARG:HB2	1:TP:472:VAL:HA	2.00	0.42
1:TP:273:ARG:HG3	1:TP:274:LEU:N	2.35	0.42
1:GQ:54:LEU:HD12	1:GQ:469:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VR:85:GLN:NE2	1:VR:138:LEU:HD13	2.34	0.42
1:bS:354:SER:N	1:bS:359:GLN:HE21	2.14	0.42
1:CT:102:ASP:HA	1:CT:109:ARG:NH2	2.35	0.42
1:CT:293:GLN:HG2	1:CT:294:LYS:N	2.33	0.42
1:PU:8:ASN:ND2	1:PU:11:ALA:HB2	2.34	0.42
1:PU:240:SER:HB3	1:PU:321:LEU:HD21	2.01	0.42
1:EX:54:LEU:CD1	1:EX:469:ILE:HD12	2.49	0.42
1:Q2:8:ASN:ND2	1:Q2:11:ALA:HB2	2.34	0.42
1:Q2:94:VAL:O	1:R4:63:GLN:HG2	2.20	0.42
1:Q2:133:ASN:OD1	1:Q2:133:ASN:C	2.63	0.42
1:Q2:240:SER:HB3	1:Q2:321:LEU:HD21	2.01	0.42
1:Q2:350:ILE:HG22	1:Q2:352:VAL:HG23	2.01	0.42
1:I3:54:LEU:HD12	1:I3:469:ILE:HD12	2.02	0.42
1:I3:422:VAL:O	1:I3:426:ILE:HG13	2.19	0.42
1:R4:350:ILE:HG22	1:R4:352:VAL:HG23	2.01	0.42
1:g6:85:GLN:NE2	1:g6:138:LEU:HD13	2.34	0.42
1:g6:287:VAL:CG1	1:g6:299:LEU:HB3	2.49	0.42
1:A7:63:GLN:HG2	1:BJ:94:VAL:O	2.20	0.42
1:e8:9:ILE:CD1	1:fK:464:ALA:HA	2.48	0.42
1:Z9:223:LYS:CG	1:cV:141:GLN:HG2	2.49	0.42
1:OA:54:LEU:HD12	1:OA:469:ILE:HD12	2.02	0.42
1:OA:324:VAL:CG1	1:OA:330:LEU:HD21	2.49	0.42
1:OA:457:ILE:HD13	1:OA:457:ILE:HA	1.86	0.42
1:FB:54:LEU:HD12	1:FB:469:ILE:HD12	2.02	0.42
1:FB:54:LEU:CD1	1:FB:469:ILE:HD12	2.49	0.42
1:FB:457:ILE:HG21	1:GQ:80:LYS:CG	2.50	0.42
1:JD:54:LEU:HD12	1:JD:469:ILE:HD12	2.02	0.42
1:JD:350:ILE:HG22	1:JD:352:VAL:HG23	2.01	0.42
1:KE:8:ASN:ND2	1:KE:11:ALA:HB2	2.34	0.42
1:KE:54:LEU:HD12	1:KE:469:ILE:HD12	2.02	0.42
1:KE:224:ASN:OD1	1:NI:293:GLN:HB2	2.19	0.42
1:KE:464:ALA:HA	1:LF:9:ILE:CD1	2.47	0.42
1:LF:54:LEU:HD12	1:LF:469:ILE:HD12	2.02	0.42
1:LF:78:ALA:C	1:LF:82:MET:HE2	2.44	0.42
1:WG:85:GLN:NE2	1:WG:138:LEU:HD13	2.34	0.42
1:WG:147:PHE:O	1:WG:156:SER:HB2	2.19	0.42
1:WG:240:SER:HB3	1:WG:321:LEU:HD21	2.01	0.42
1:NI:54:LEU:HD12	1:NI:469:ILE:HD12	2.02	0.42
1:NI:214:ILE:HD12	1:NI:214:ILE:HA	1.88	0.42
1:HL:54:LEU:HD12	1:HL:469:ILE:HD12	2.02	0.42
1:HL:297:LEU:HD23	1:HL:321:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:464:ALA:HA	1:GQ:9:ILE:CD1	2.48	0.42
1:XM:85:GLN:NE2	1:XM:138:LEU:HD13	2.34	0.42
1:XM:240:SER:HB3	1:XM:321:LEU:HD21	2.01	0.42
1:DN:147:PHE:O	1:DN:156:SER:HB2	2.19	0.42
1:MO:102:ASP:HA	1:MO:109:ARG:NH2	2.35	0.42
1:MO:380:LEU:HA	1:MO:426:ILE:CG2	2.49	0.42
1:GQ:422:VAL:O	1:GQ:426:ILE:HG13	2.19	0.42
1:VR:240:SER:HB3	1:VR:321:LEU:HD21	2.01	0.42
1:PU:133:ASN:OD1	1:PU:133:ASN:C	2.63	0.42
1:PU:350:ILE:HG22	1:PU:352:VAL:HG23	2.01	0.42
1:cV:147:PHE:O	1:cV:156:SER:HB2	2.19	0.42
1:EX:54:LEU:HD12	1:EX:469:ILE:HD12	2.02	0.42
1:Y1:224:ASN:OD1	1:cV:293:GLN:HB2	2.19	0.42
1:Y1:355:ALA:O	1:Y1:359:GLN:HG2	2.19	0.42
1:Y1:498:ALA:O	1:Y1:501:VAL:HG13	2.19	0.42
1:R4:133:ASN:OD1	1:R4:133:ASN:C	2.63	0.42
1:S5:133:ASN:OD1	1:S5:133:ASN:C	2.63	0.42
1:S5:321:LEU:HB3	1:S5:330:LEU:CD1	2.50	0.42
1:g6:81:ALA:HB1	1:g6:138:LEU:HD11	2.01	0.42
1:g6:498:ALA:O	1:g6:501:VAL:HG13	2.19	0.42
1:e8:85:GLN:NE2	1:e8:138:LEU:HD13	2.34	0.42
1:e8:273:ARG:HG3	1:e8:274:LEU:N	2.35	0.42
1:e8:293:GLN:HG2	1:e8:294:LYS:N	2.33	0.42
1:JD:54:LEU:CD1	1:JD:469:ILE:HD12	2.49	0.42
1:JD:147:PHE:O	1:JD:156:SER:HB2	2.19	0.42
1:KE:54:LEU:CD1	1:KE:469:ILE:HD12	2.49	0.42
1:KE:350:ILE:HG22	1:KE:352:VAL:HG23	2.01	0.42
1:LF:8:ASN:ND2	1:LF:11:ALA:HB2	2.34	0.42
1:LF:147:PHE:O	1:LF:156:SER:HB2	2.19	0.42
1:NI:441:LEU:HD23	1:NI:441:LEU:HA	1.81	0.42
1:BJ:506:LEU:H	1:BJ:506:LEU:CD1	2.28	0.42
1:fK:85:GLN:NE2	1:fK:138:LEU:HD13	2.34	0.42
1:fK:273:ARG:HG3	1:fK:274:LEU:N	2.35	0.42
1:HL:422:VAL:O	1:HL:426:ILE:HG13	2.19	0.42
1:GQ:321:LEU:HB3	1:GQ:330:LEU:CD1	2.50	0.42
1:VR:287:VAL:CG1	1:VR:299:LEU:HB3	2.49	0.42
1:VR:433:MET:HE2	1:VR:433:MET:HB3	1.74	0.42
1:bS:141:GLN:HG2	1:aW:223:LYS:CG	2.49	0.42
1:CT:506:LEU:H	1:CT:506:LEU:CD1	2.28	0.42
1:EX:350:ILE:HG22	1:EX:352:VAL:HG23	2.01	0.42
1:Q2:102:ASP:HA	1:Q2:109:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:321:LEU:HB3	1:I3:330:LEU:CD1	2.50	0.42
1:R4:8:ASN:ND2	1:R4:11:ALA:HB2	2.34	0.42
1:R4:41:ALA:HB2	1:R4:48:MET:CE	2.50	0.42
1:R4:102:ASP:HA	1:R4:109:ARG:NH2	2.35	0.42
1:g6:78:ALA:C	1:g6:82:MET:HE2	2.44	0.42
1:g6:102:ASP:HA	1:g6:109:ARG:NH2	2.35	0.42
1:g6:273:ARG:HG3	1:g6:274:LEU:N	2.35	0.42
1:g6:321:LEU:HB3	1:g6:330:LEU:CD1	2.50	0.42
1:g6:350:ILE:HG22	1:g6:352:VAL:HG23	2.01	0.42
1:A7:54:LEU:HD12	1:A7:469:ILE:HD12	2.02	0.42
1:A7:78:ALA:C	1:A7:82:MET:HE2	2.44	0.42
1:A7:506:LEU:H	1:A7:506:LEU:CD1	2.28	0.42
1:e8:102:ASP:HA	1:e8:109:ARG:NH2	2.35	0.42
1:e8:214:ILE:CD1	1:e8:217:LEU:HD23	2.50	0.42
1:Z9:214:ILE:CD1	1:Z9:217:LEU:HD23	2.50	0.42
1:Z9:498:ALA:O	1:Z9:501:VAL:HG13	2.19	0.42
1:OA:133:ASN:OD1	1:OA:133:ASN:C	2.63	0.42
1:OA:214:ILE:HD12	1:OA:214:ILE:HA	1.88	0.42
1:FB:321:LEU:HB3	1:FB:330:LEU:CD1	2.50	0.42
1:FB:350:ILE:HG22	1:FB:352:VAL:HG23	2.01	0.42
1:dC:147:PHE:O	1:dC:156:SER:HB2	2.19	0.42
1:dC:214:ILE:CD1	1:dC:217:LEU:HD23	2.50	0.42
1:dC:293:GLN:HG2	1:dC:294:LYS:N	2.33	0.42
1:dC:321:LEU:HB3	1:dC:330:LEU:CD1	2.50	0.42
1:KE:147:PHE:O	1:KE:156:SER:HB2	2.19	0.42
1:KE:433:MET:HE2	1:KE:433:MET:HB3	1.74	0.42
1:LF:350:ILE:HG22	1:LF:352:VAL:HG23	2.01	0.42
1:WG:82:MET:HE3	1:WG:82:MET:HB2	1.82	0.42
1:WG:133:ASN:OD1	1:WG:133:ASN:C	2.63	0.42
1:UH:133:ASN:OD1	1:UH:133:ASN:C	2.63	0.42
1:NI:102:ASP:HA	1:NI:109:ARG:NH2	2.35	0.42
1:NI:133:ASN:OD1	1:NI:133:ASN:C	2.63	0.42
1:BJ:78:ALA:C	1:BJ:82:MET:HE2	2.44	0.42
1:fK:78:ALA:C	1:fK:82:MET:HE2	2.44	0.42
1:fK:81:ALA:HB1	1:fK:138:LEU:HD11	2.01	0.42
1:fK:102:ASP:HA	1:fK:109:ARG:NH2	2.35	0.42
1:fK:214:ILE:CD1	1:fK:217:LEU:HD23	2.50	0.42
1:fK:321:LEU:HB3	1:fK:330:LEU:CD1	2.50	0.42
1:fK:350:ILE:HG22	1:fK:352:VAL:HG23	2.01	0.42
1:fK:498:ALA:O	1:fK:501:VAL:HG13	2.19	0.42
1:HL:80:LYS:CG	1:EX:457:ILE:HG21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:321:LEU:HB3	1:HL:330:LEU:CD1	2.50	0.42
1:DN:321:LEU:HB3	1:DN:330:LEU:CD1	2.50	0.42
1:DN:380:LEU:HA	1:DN:426:ILE:CG2	2.49	0.42
1:MO:133:ASN:OD1	1:MO:133:ASN:C	2.63	0.42
1:MO:321:LEU:HB3	1:MO:330:LEU:CD1	2.50	0.42
1:TP:133:ASN:OD1	1:TP:133:ASN:C	2.63	0.42
1:GQ:297:LEU:HD23	1:GQ:321:LEU:HD11	2.02	0.42
1:CT:78:ALA:C	1:CT:82:MET:HE2	2.44	0.42
1:CT:297:LEU:HD23	1:CT:321:LEU:HD11	2.02	0.42
1:PU:41:ALA:HB2	1:PU:48:MET:CE	2.50	0.42
1:PU:82:MET:HE3	1:PU:82:MET:HB2	1.82	0.42
1:PU:102:ASP:HA	1:PU:109:ARG:NH2	2.35	0.42
1:aW:81:ALA:HB1	1:aW:138:LEU:HD11	2.01	0.42
1:aW:214:ILE:CD1	1:aW:217:LEU:HD23	2.50	0.42
1:aW:350:ILE:HG22	1:aW:352:VAL:HG23	2.01	0.42
1:aW:498:ALA:O	1:aW:501:VAL:HG13	2.19	0.42
1:EX:321:LEU:HB3	1:EX:330:LEU:CD1	2.50	0.42
1:Y1:214:ILE:CD1	1:Y1:217:LEU:HD23	2.50	0.42
1:Q2:41:ALA:HB2	1:Q2:48:MET:CE	2.50	0.42
1:Q2:141:GLN:HG2	1:NI:223:LYS:CG	2.50	0.42
1:Q2:294:LYS:HD3	1:MO:200:THR:HB	2.02	0.42
1:S5:214:ILE:CD1	1:S5:217:LEU:HD23	2.50	0.42
1:S5:240:SER:HB3	1:S5:321:LEU:HD21	2.01	0.42
1:g6:214:ILE:CD1	1:g6:217:LEU:HD23	2.50	0.42
1:g6:223:LYS:CG	1:CT:141:GLN:HG2	2.50	0.42
1:A7:214:ILE:CD1	1:A7:217:LEU:HD23	2.50	0.42
1:A7:297:LEU:HD23	1:A7:321:LEU:HD11	2.02	0.42
1:e8:78:ALA:C	1:e8:82:MET:HE2	2.44	0.42
1:e8:82:MET:CE	1:e8:441:LEU:HD12	2.20	0.42
1:e8:321:LEU:HB3	1:e8:330:LEU:CD1	2.50	0.42
1:e8:498:ALA:O	1:e8:501:VAL:HG13	2.20	0.42
1:Z9:141:GLN:HG2	1:VR:223:LYS:CG	2.50	0.42
1:OA:102:ASP:HA	1:OA:109:ARG:NH2	2.35	0.42
1:OA:321:LEU:HB3	1:OA:330:LEU:CD1	2.50	0.42
1:FB:214:ILE:CD1	1:FB:217:LEU:HD23	2.50	0.42
1:KE:223:LYS:CG	1:MO:141:GLN:HG2	2.50	0.42
1:LF:54:LEU:CD1	1:LF:469:ILE:HD12	2.49	0.42
1:WG:94:VAL:O	1:XM:63:GLN:HG2	2.20	0.42
1:WG:141:GLN:HG2	1:TP:223:LYS:HG3	2.00	0.42
1:WG:214:ILE:CD1	1:WG:217:LEU:HD23	2.50	0.42
1:UH:214:ILE:CD1	1:UH:217:LEU:HD23	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:240:SER:HB3	1:UH:321:LEU:HD21	2.01	0.42
1:UH:321:LEU:HB3	1:UH:330:LEU:CD1	2.50	0.42
1:NI:321:LEU:HB3	1:NI:330:LEU:CD1	2.50	0.42
1:BJ:214:ILE:CD1	1:BJ:217:LEU:HD23	2.50	0.42
1:BJ:297:LEU:HD23	1:BJ:321:LEU:HD11	2.02	0.42
1:XM:133:ASN:OD1	1:XM:133:ASN:C	2.63	0.42
1:XM:147:PHE:O	1:XM:156:SER:HB2	2.19	0.42
1:XM:214:ILE:CD1	1:XM:217:LEU:HD23	2.50	0.42
1:TP:214:ILE:CD1	1:TP:217:LEU:HD23	2.50	0.42
1:TP:321:LEU:HB3	1:TP:330:LEU:CD1	2.50	0.42
1:VR:82:MET:HE3	1:VR:82:MET:HB2	1.82	0.42
1:VR:214:ILE:CD1	1:VR:217:LEU:HD23	2.50	0.42
1:VR:321:LEU:HB3	1:VR:330:LEU:CD1	2.50	0.42
1:VR:457:ILE:HG21	1:aW:80:LYS:CG	2.49	0.42
1:bS:214:ILE:CD1	1:bS:217:LEU:HD23	2.50	0.42
1:bS:498:ALA:O	1:bS:501:VAL:HG13	2.19	0.42
1:cV:293:GLN:HG2	1:cV:294:LYS:N	2.33	0.42
1:Q2:54:LEU:HD12	1:Q2:469:ILE:HD12	2.02	0.41
1:Q2:506:LEU:H	1:Q2:506:LEU:CD1	2.28	0.41
1:I3:214:ILE:CD1	1:I3:217:LEU:HD23	2.50	0.41
1:R4:506:LEU:H	1:R4:506:LEU:CD1	2.28	0.41
1:S5:63:GLN:HG2	1:TP:94:VAL:O	2.20	0.41
1:g6:82:MET:CE	1:g6:441:LEU:HD12	2.20	0.41
1:A7:321:LEU:HB3	1:A7:330:LEU:CD1	2.50	0.41
1:e8:81:ALA:HB1	1:e8:138:LEU:HD11	2.01	0.41
1:e8:497:GLN:HG3	1:BJ:481:PHE:CE2	2.55	0.41
1:Z9:81:ALA:HB1	1:Z9:138:LEU:HD11	2.01	0.41
1:Z9:273:ARG:HG3	1:Z9:274:LEU:N	2.35	0.41
1:Z9:350:ILE:HG22	1:Z9:352:VAL:HG23	2.01	0.41
1:OA:417:LEU:HD11	1:OA:421:MET:CE	2.46	0.41
1:FB:78:ALA:C	1:FB:82:MET:HE2	2.44	0.41
1:FB:380:LEU:HA	1:FB:426:ILE:CG2	2.49	0.41
1:dC:102:ASP:HA	1:dC:109:ARG:NH2	2.35	0.41
1:dC:498:ALA:O	1:dC:501:VAL:HG13	2.19	0.41
1:JD:133:ASN:OD1	1:JD:133:ASN:C	2.63	0.41
1:KE:94:VAL:O	1:LF:63:GLN:HG2	2.20	0.41
1:KE:133:ASN:OD1	1:KE:133:ASN:C	2.63	0.41
1:LF:133:ASN:OD1	1:LF:133:ASN:C	2.63	0.41
1:NI:297:LEU:HD23	1:NI:321:LEU:HD11	2.02	0.41
1:BJ:54:LEU:HD12	1:BJ:469:ILE:HD12	2.02	0.41
1:BJ:321:LEU:HB3	1:BJ:330:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:82:MET:CE	1:fK:441:LEU:HD12	2.20	0.41
1:fK:497:GLN:HG3	1:CT:481:PHE:CE2	2.55	0.41
1:HL:98:GLN:HB2	1:GQ:63:GLN:NE2	2.35	0.41
1:DN:78:ALA:C	1:DN:82:MET:HE2	2.44	0.41
1:MO:350:ILE:HG22	1:MO:352:VAL:HG23	2.01	0.41
1:TP:240:SER:HB3	1:TP:321:LEU:HD21	2.01	0.41
1:TP:457:ILE:HG21	1:VR:80:LYS:CB	2.49	0.41
1:VR:133:ASN:OD1	1:VR:133:ASN:C	2.63	0.41
1:bS:94:VAL:O	1:cV:63:GLN:HG2	2.20	0.41
1:bS:321:LEU:HB3	1:bS:330:LEU:CD1	2.50	0.41
1:CT:214:ILE:CD1	1:CT:217:LEU:HD23	2.50	0.41
1:CT:321:LEU:HB3	1:CT:330:LEU:CD1	2.50	0.41
1:CT:433:MET:HE2	1:CT:433:MET:HB3	1.74	0.41
1:PU:54:LEU:HD12	1:PU:469:ILE:HD12	2.02	0.41
1:PU:506:LEU:H	1:PU:506:LEU:CD1	2.28	0.41
1:cV:214:ILE:CD1	1:cV:217:LEU:HD23	2.50	0.41
1:cV:321:LEU:HB3	1:cV:330:LEU:CD1	2.50	0.41
1:cV:498:ALA:O	1:cV:501:VAL:HG13	2.19	0.41
1:aW:273:ARG:HG3	1:aW:274:LEU:N	2.35	0.41
1:EX:380:LEU:HA	1:EX:426:ILE:CG2	2.50	0.41
1:Y1:133:ASN:OD1	1:Y1:133:ASN:C	2.63	0.41
1:Y1:457:ILE:HG21	1:cV:80:LYS:CB	2.49	0.41
1:Q2:63:GLN:HG2	1:PU:94:VAL:O	2.20	0.41
1:I3:18:SER:CB	1:DN:3:PHE:HZ	2.33	0.41
1:R4:214:ILE:CD1	1:R4:217:LEU:HD23	2.50	0.41
1:S5:102:ASP:HA	1:S5:109:ARG:NH2	2.35	0.41
1:e8:350:ILE:HG22	1:e8:352:VAL:HG23	2.01	0.41
1:OA:273:ARG:HG3	1:OA:274:LEU:N	2.35	0.41
1:OA:297:LEU:HD23	1:OA:321:LEU:HD11	2.02	0.41
1:OA:441:LEU:HD23	1:OA:441:LEU:HA	1.81	0.41
1:FB:4:GLN:HG2	1:EX:471:ASP:CB	2.45	0.41
1:FB:297:LEU:HD23	1:FB:321:LEU:HD11	2.02	0.41
1:dC:273:ARG:HG3	1:dC:274:LEU:N	2.35	0.41
1:JD:321:LEU:HB3	1:JD:330:LEU:CD1	2.50	0.41
1:WG:321:LEU:HB3	1:WG:330:LEU:CD1	2.50	0.41
1:UH:20:LEU:HD23	1:UH:20:LEU:HA	1.91	0.41
1:UH:94:VAL:O	1:TP:63:GLN:HG2	2.21	0.41
1:NI:94:VAL:O	1:MO:63:GLN:HG2	2.20	0.41
1:NI:350:ILE:HG22	1:NI:352:VAL:HG23	2.01	0.41
1:fK:309:ILE:HD12	1:fK:309:ILE:HA	1.88	0.41
1:XM:321:LEU:HB3	1:XM:330:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:12:MET:HE2	1:GQ:12:MET:HB3	1.95	0.41
1:bS:457:ILE:CD1	1:cV:16:VAL:HG11	2.50	0.41
1:CT:54:LEU:HD12	1:CT:469:ILE:HD12	2.02	0.41
1:PU:321:LEU:HB3	1:PU:330:LEU:CD1	2.50	0.41
1:cV:102:ASP:HA	1:cV:109:ARG:NH2	2.35	0.41
1:aW:321:LEU:HB3	1:aW:330:LEU:CD1	2.50	0.41
1:EX:78:ALA:C	1:EX:82:MET:HE2	2.44	0.41
1:EX:214:ILE:CD1	1:EX:217:LEU:HD23	2.50	0.41
1:Y1:273:ARG:HG3	1:Y1:274:LEU:N	2.35	0.41
1:Y1:321:LEU:HB3	1:Y1:330:LEU:CD1	2.50	0.41
1:Y1:350:ILE:HG22	1:Y1:352:VAL:HG23	2.01	0.41
1:Q2:214:ILE:CD1	1:Q2:217:LEU:HD23	2.50	0.41
1:Q2:321:LEU:HB3	1:Q2:330:LEU:CD1	2.50	0.41
1:R4:54:LEU:HD12	1:R4:469:ILE:HD12	2.02	0.41
1:R4:497:GLN:HG3	1:S5:481:PHE:CE2	2.54	0.41
1:S5:138:LEU:HB3	1:S5:164:THR:HG1	1.84	0.41
1:g6:309:ILE:HD12	1:g6:309:ILE:HA	1.89	0.41
1:A7:16:VAL:HG11	1:BJ:457:ILE:CD1	2.50	0.41
1:A7:41:ALA:HB2	1:A7:48:MET:CE	2.50	0.41
1:e8:434:LEU:HD23	1:e8:434:LEU:HA	1.91	0.41
1:Z9:133:ASN:OD1	1:Z9:133:ASN:C	2.63	0.41
1:FB:497:GLN:HG3	1:GQ:481:PHE:CE2	2.55	0.41
1:JD:433:MET:HE2	1:JD:433:MET:HB3	1.74	0.41
1:KE:321:LEU:HB3	1:KE:330:LEU:CD1	2.50	0.41
1:KE:438:ARG:HB3	1:LF:48:MET:CE	2.45	0.41
1:LF:214:ILE:CD1	1:LF:217:LEU:HD23	2.50	0.41
1:LF:497:GLN:HG3	1:MO:481:PHE:CE2	2.55	0.41
1:UH:81:ALA:HB1	1:UH:138:LEU:HD11	2.01	0.41
1:NI:273:ARG:HG3	1:NI:274:LEU:N	2.35	0.41
1:fK:434:LEU:HD23	1:fK:434:LEU:HA	1.91	0.41
1:HL:41:ALA:HB2	1:HL:48:MET:CE	2.50	0.41
1:HL:133:ASN:OD1	1:HL:133:ASN:C	2.63	0.41
1:HL:214:ILE:CD1	1:HL:217:LEU:HD23	2.50	0.41
1:XM:102:ASP:HA	1:XM:109:ARG:NH2	2.35	0.41
1:XM:433:MET:HE2	1:XM:433:MET:HB3	1.74	0.41
1:DN:214:ILE:CD1	1:DN:217:LEU:HD23	2.50	0.41
1:MO:273:ARG:HG3	1:MO:274:LEU:N	2.35	0.41
1:MO:297:LEU:HD23	1:MO:321:LEU:HD11	2.02	0.41
1:TP:200:THR:HB	1:VR:294:LYS:HD3	2.02	0.41
1:GQ:214:ILE:CD1	1:GQ:217:LEU:HD23	2.50	0.41
1:bS:102:ASP:HA	1:bS:109:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:293:GLN:HG2	1:bS:294:LYS:N	2.33	0.41
1:CT:41:ALA:HB2	1:CT:48:MET:CE	2.50	0.41
1:aW:133:ASN:OD1	1:aW:133:ASN:C	2.63	0.41
1:EX:41:ALA:HB2	1:EX:48:MET:CE	2.50	0.41
1:EX:297:LEU:HD23	1:EX:321:LEU:HD11	2.02	0.41
1:Y1:81:ALA:HB1	1:Y1:138:LEU:HD11	2.01	0.41
1:Y1:102:ASP:HA	1:Y1:109:ARG:NH2	2.35	0.41
1:I3:41:ALA:HB2	1:I3:48:MET:CE	2.50	0.41
1:I3:133:ASN:OD1	1:I3:133:ASN:C	2.63	0.41
1:I3:498:ALA:O	1:I3:501:VAL:HG13	2.19	0.41
1:R4:141:GLN:HG2	1:MO:223:LYS:CG	2.51	0.41
1:R4:321:LEU:HB3	1:R4:330:LEU:CD1	2.50	0.41
1:R4:498:ALA:O	1:R4:501:VAL:HG13	2.19	0.41
1:g6:54:LEU:HD12	1:g6:469:ILE:HD12	2.02	0.41
1:g6:380:LEU:HA	1:g6:426:ILE:CG2	2.49	0.41
1:g6:434:LEU:HD23	1:g6:434:LEU:HA	1.91	0.41
1:e8:41:ALA:HB2	1:e8:48:MET:CE	2.50	0.41
1:Z9:102:ASP:HA	1:Z9:109:ARG:NH2	2.35	0.41
1:Z9:321:LEU:HB3	1:Z9:330:LEU:CD1	2.50	0.41
1:OA:81:ALA:HB1	1:OA:138:LEU:HD11	2.01	0.41
1:OA:471:ASP:CB	1:NI:4:GLN:HG2	2.48	0.41
1:FB:41:ALA:HB2	1:FB:48:MET:CE	2.50	0.41
1:JD:12:MET:HE2	1:JD:12:MET:HB3	1.95	0.41
1:JD:41:ALA:HB2	1:JD:48:MET:CE	2.50	0.41
1:JD:94:VAL:O	1:KE:63:GLN:HG2	2.20	0.41
1:KE:200:THR:HB	1:NI:294:LYS:HD3	2.02	0.41
1:KE:214:ILE:CD1	1:KE:217:LEU:HD23	2.50	0.41
1:LF:297:LEU:HD23	1:LF:321:LEU:HD11	2.02	0.41
1:WG:102:ASP:HA	1:WG:109:ARG:NH2	2.35	0.41
1:UH:239:THR:CG2	1:UH:400:ASN:HD21	2.26	0.41
1:BJ:9:ILE:CD1	1:CT:464:ALA:HA	2.47	0.41
1:BJ:41:ALA:HB2	1:BJ:48:MET:CE	2.50	0.41
1:BJ:141:GLN:HG2	1:fK:223:LYS:CG	2.50	0.41
1:fK:293:GLN:HB2	1:cV:224:ASN:OD1	2.20	0.41
1:fK:380:LEU:HA	1:fK:426:ILE:CG2	2.49	0.41
1:HL:498:ALA:O	1:HL:501:VAL:HG13	2.19	0.41
1:XM:257:ILE:N	1:XM:257:ILE:CD1	2.84	0.41
1:DN:41:ALA:HB2	1:DN:48:MET:CE	2.50	0.41
1:DN:80:LYS:CG	1:CT:457:ILE:HG21	2.50	0.41
1:DN:293:GLN:HG2	1:DN:294:LYS:N	2.33	0.41
1:TP:81:ALA:HB1	1:TP:138:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:102:ASP:HA	1:TP:109:ARG:NH2	2.35	0.41
1:GQ:41:ALA:HB2	1:GQ:48:MET:CE	2.50	0.41
1:GQ:133:ASN:OD1	1:GQ:133:ASN:C	2.63	0.41
1:cV:273:ARG:HG3	1:cV:274:LEU:N	2.35	0.41
1:EX:293:GLN:HG2	1:EX:294:LYS:N	2.33	0.41
1:Q2:332:LYS:HD2	1:Q2:332:LYS:H	1.84	0.41
1:I3:12:MET:HE2	1:I3:12:MET:HB3	1.95	0.41
1:R4:457:ILE:HD13	1:R4:457:ILE:HA	1.86	0.41
1:S5:54:LEU:HD12	1:S5:469:ILE:HD12	2.02	0.41
1:S5:202:GLU:HB2	1:WG:268:ASN:ND2	2.28	0.41
1:g6:41:ALA:HB2	1:g6:48:MET:CE	2.50	0.41
1:g6:239:THR:CG2	1:g6:400:ASN:HD21	2.26	0.41
1:e8:63:GLN:HG2	1:fK:94:VAL:O	2.21	0.41
1:e8:309:ILE:HD12	1:e8:309:ILE:HA	1.88	0.41
1:e8:380:LEU:HA	1:e8:426:ILE:CG2	2.50	0.41
1:Z9:75:ILE:HG21	1:Z9:445:GLN:HB2	2.03	0.41
1:OA:214:ILE:CD1	1:OA:217:LEU:HD23	2.50	0.41
1:OA:350:ILE:HG22	1:OA:352:VAL:HG23	2.01	0.41
1:dC:214:ILE:HD12	1:dC:214:ILE:HA	1.88	0.41
1:JD:214:ILE:CD1	1:JD:217:LEU:HD23	2.50	0.41
1:JD:257:ILE:N	1:JD:257:ILE:CD1	2.84	0.41
1:KE:12:MET:HE2	1:KE:12:MET:HB3	1.95	0.41
1:KE:41:ALA:HB2	1:KE:48:MET:CE	2.50	0.41
1:KE:481:PHE:CE2	1:GQ:497:GLN:HG3	2.55	0.41
1:LF:257:ILE:N	1:LF:257:ILE:CD1	2.84	0.41
1:LF:321:LEU:HB3	1:LF:330:LEU:CD1	2.50	0.41
1:UH:102:ASP:HA	1:UH:109:ARG:NH2	2.35	0.41
1:fK:54:LEU:HD12	1:fK:469:ILE:HD12	2.02	0.41
1:HL:12:MET:HE2	1:HL:12:MET:HB3	1.95	0.41
1:DN:297:LEU:HD23	1:DN:321:LEU:HD11	2.02	0.41
1:MO:214:ILE:CD1	1:MO:217:LEU:HD23	2.50	0.41
1:TP:54:LEU:HD12	1:TP:469:ILE:HD12	2.02	0.41
1:GQ:498:ALA:O	1:GQ:501:VAL:HG13	2.19	0.41
1:VR:102:ASP:HA	1:VR:109:ARG:NH2	2.35	0.41
1:bS:78:ALA:C	1:bS:82:MET:HE2	2.44	0.41
1:bS:133:ASN:OD1	1:bS:133:ASN:C	2.63	0.41
1:bS:214:ILE:HD12	1:bS:214:ILE:HA	1.88	0.41
1:bS:273:ARG:HG3	1:bS:274:LEU:N	2.35	0.41
1:CT:12:MET:HE2	1:CT:12:MET:HB3	1.95	0.41
1:PU:214:ILE:CD1	1:PU:217:LEU:HD23	2.50	0.41
1:cV:75:ILE:HG21	1:cV:445:GLN:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cV:78:ALA:C	1:cV:82:MET:HE2	2.44	0.41
1:cV:133:ASN:OD1	1:cV:133:ASN:C	2.63	0.41
1:cV:214:ILE:HD12	1:cV:214:ILE:HA	1.88	0.41
1:aW:191:LYS:HB3	1:aW:191:LYS:HE2	1.74	0.41
1:Y1:80:LYS:CG	1:XM:457:ILE:HG21	2.49	0.41
1:Q2:498:ALA:O	1:Q2:501:VAL:HG13	2.19	0.41
1:I3:94:VAL:O	1:HL:63:GLN:HG2	2.20	0.41
1:I3:257:ILE:N	1:I3:257:ILE:CD1	2.84	0.41
1:S5:75:ILE:HG21	1:S5:445:GLN:HB2	2.03	0.41
1:S5:297:LEU:HD23	1:S5:321:LEU:HD11	2.02	0.41
1:g6:80:LYS:CG	1:bS:457:ILE:HG21	2.51	0.41
1:e8:16:VAL:HG11	1:fK:457:ILE:CD1	2.51	0.41
1:e8:268:ASN:ND2	1:dC:202:GLU:HB2	2.31	0.41
1:Z9:16:VAL:HG11	1:aW:457:ILE:CD1	2.50	0.41
1:Z9:191:LYS:HB3	1:Z9:191:LYS:HE2	1.73	0.41
1:FB:25:LEU:HD23	1:FB:25:LEU:HA	1.95	0.41
1:FB:133:ASN:OD1	1:FB:133:ASN:C	2.63	0.41
1:dC:75:ILE:HG21	1:dC:445:GLN:HB2	2.03	0.41
1:dC:78:ALA:C	1:dC:82:MET:HE2	2.44	0.41
1:dC:133:ASN:OD1	1:dC:133:ASN:C	2.63	0.41
1:KE:257:ILE:N	1:KE:257:ILE:CD1	2.84	0.41
1:KE:297:LEU:HD23	1:KE:321:LEU:HD11	2.02	0.41
1:LF:41:ALA:HB2	1:LF:48:MET:CE	2.50	0.41
1:WG:41:ALA:HB2	1:WG:48:MET:CE	2.50	0.41
1:WG:257:ILE:N	1:WG:257:ILE:CD1	2.84	0.41
1:WG:417:LEU:O	1:WG:421:MET:HG2	2.21	0.41
1:UH:54:LEU:HD12	1:UH:469:ILE:HD12	2.02	0.41
1:NI:81:ALA:HB1	1:NI:138:LEU:HD11	2.01	0.41
1:NI:214:ILE:CD1	1:NI:217:LEU:HD23	2.50	0.41
1:BJ:433:MET:HE2	1:BJ:433:MET:HB3	1.74	0.41
1:fK:41:ALA:HB2	1:fK:48:MET:CE	2.50	0.41
1:HL:257:ILE:N	1:HL:257:ILE:CD1	2.84	0.41
1:XM:41:ALA:HB2	1:XM:48:MET:CE	2.50	0.41
1:XM:417:LEU:O	1:XM:421:MET:HG2	2.21	0.41
1:DN:133:ASN:OD1	1:DN:133:ASN:C	2.63	0.41
1:TP:20:LEU:HD23	1:TP:20:LEU:HA	1.91	0.41
1:TP:239:THR:CG2	1:TP:400:ASN:HD21	2.26	0.41
1:VR:41:ALA:HB2	1:VR:48:MET:CE	2.50	0.41
1:VR:297:LEU:HD23	1:VR:321:LEU:HD11	2.02	0.41
1:VR:380:LEU:HA	1:VR:426:ILE:CG2	2.49	0.41
1:bS:75:ILE:HG21	1:bS:445:GLN:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:498:ALA:O	1:PU:501:VAL:HG13	2.19	0.41
1:aW:75:ILE:HG21	1:aW:445:GLN:HB2	2.03	0.41
1:aW:102:ASP:HA	1:aW:109:ARG:NH2	2.35	0.41
1:aW:158:LYS:HB2	1:aW:158:LYS:HE2	1.81	0.41
1:Y1:75:ILE:HG21	1:Y1:445:GLN:HB2	2.03	0.41
1:Y1:297:LEU:HD23	1:Y1:321:LEU:HD11	2.02	0.41
1:Y1:380:LEU:HA	1:Y1:426:ILE:CG2	2.49	0.41
1:R4:332:LYS:HD2	1:R4:332:LYS:H	1.84	0.41
1:S5:81:ALA:HB1	1:S5:138:LEU:HD11	2.01	0.41
1:A7:63:GLN:NE2	1:BJ:98:GLN:HB2	2.36	0.41
1:A7:133:ASN:OD1	1:A7:133:ASN:C	2.63	0.41
1:e8:4:GLN:HG2	1:fK:471:ASP:CB	2.46	0.41
1:e8:54:LEU:HD12	1:e8:469:ILE:HD12	2.02	0.41
1:e8:133:ASN:OD1	1:e8:133:ASN:C	2.63	0.41
1:Z9:297:LEU:HD23	1:Z9:321:LEU:HD11	2.02	0.41
1:FB:63:GLN:HG2	1:EX:94:VAL:O	2.21	0.41
1:dC:41:ALA:HB2	1:dC:48:MET:CE	2.50	0.41
1:JD:297:LEU:HD23	1:JD:321:LEU:HD11	2.02	0.41
1:LF:12:MET:HE2	1:LF:12:MET:HB3	1.95	0.41
1:LF:380:LEU:HA	1:LF:426:ILE:CG2	2.49	0.41
1:WG:297:LEU:HD23	1:WG:321:LEU:HD11	2.02	0.41
1:WG:380:LEU:HA	1:WG:426:ILE:CG2	2.49	0.41
1:BJ:12:MET:HE2	1:BJ:12:MET:HB3	1.95	0.41
1:BJ:457:ILE:HG21	1:EX:80:LYS:CG	2.51	0.41
1:fK:133:ASN:OD1	1:fK:133:ASN:C	2.63	0.41
1:fK:239:THR:CG2	1:fK:400:ASN:HD21	2.26	0.41
1:XM:297:LEU:HD23	1:XM:321:LEU:HD11	2.02	0.41
1:DN:417:LEU:O	1:DN:421:MET:HG2	2.21	0.41
1:GQ:78:ALA:C	1:GQ:82:MET:HE2	2.44	0.41
1:GQ:257:ILE:N	1:GQ:257:ILE:CD1	2.84	0.41
1:VR:257:ILE:N	1:VR:257:ILE:CD1	2.84	0.41
1:VR:417:LEU:O	1:VR:421:MET:HG2	2.21	0.41
1:CT:133:ASN:OD1	1:CT:133:ASN:C	2.63	0.41
1:cV:223:LYS:HB3	1:cV:223:LYS:HE2	1.98	0.41
1:aW:257:ILE:N	1:aW:257:ILE:CD1	2.84	0.41
1:EX:133:ASN:OD1	1:EX:133:ASN:C	2.63	0.41
1:EX:417:LEU:O	1:EX:421:MET:HG2	2.21	0.41
1:Y1:191:LYS:HE2	1:Y1:191:LYS:HB3	1.73	0.41
1:Q2:80:LYS:CB	1:MO:457:ILE:HG21	2.50	0.41
1:Q2:457:ILE:CD1	1:R4:16:VAL:HG11	2.51	0.41
1:S5:214:ILE:HD12	1:S5:214:ILE:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:350:ILE:HG22	1:S5:352:VAL:HG23	2.01	0.41
1:g6:133:ASN:OD1	1:g6:133:ASN:C	2.63	0.41
1:g6:262:ILE:CG2	1:g6:265:ILE:HD11	2.51	0.41
1:g6:478:SER:OG	1:fK:507:ARG:HD2	2.21	0.41
1:e8:297:LEU:HD23	1:e8:321:LEU:HD11	2.02	0.41
1:Z9:41:ALA:HB2	1:Z9:48:MET:CE	2.50	0.41
1:Z9:158:LYS:HB2	1:Z9:158:LYS:HE2	1.80	0.41
1:Z9:380:LEU:HA	1:Z9:426:ILE:CG2	2.49	0.41
1:OA:41:ALA:HB2	1:OA:48:MET:CE	2.50	0.41
1:FB:293:GLN:HG2	1:FB:294:LYS:N	2.33	0.41
1:FB:417:LEU:O	1:FB:421:MET:HG2	2.21	0.41
1:UH:75:ILE:HG21	1:UH:445:GLN:HB2	2.03	0.41
1:UH:80:LYS:CB	1:PU:457:ILE:HG21	2.48	0.41
1:UH:297:LEU:HD23	1:UH:321:LEU:HD11	2.02	0.41
1:UH:464:ALA:HA	1:TP:9:ILE:CD1	2.49	0.41
1:NI:41:ALA:HB2	1:NI:48:MET:CE	2.50	0.41
1:BJ:63:GLN:HG2	1:CT:94:VAL:O	2.21	0.41
1:BJ:133:ASN:OD1	1:BJ:133:ASN:C	2.63	0.41
1:BJ:498:ALA:O	1:BJ:501:VAL:HG13	2.19	0.41
1:HL:78:ALA:C	1:HL:82:MET:HE2	2.44	0.41
1:MO:41:ALA:HB2	1:MO:48:MET:CE	2.50	0.41
1:TP:75:ILE:HG21	1:TP:445:GLN:HB2	2.03	0.41
1:TP:297:LEU:HD23	1:TP:321:LEU:HD11	2.02	0.41
1:VR:498:ALA:O	1:VR:501:VAL:HG13	2.19	0.41
1:bS:41:ALA:HB2	1:bS:48:MET:CE	2.50	0.41
1:PU:158:LYS:HE2	1:PU:158:LYS:HB2	1.81	0.41
1:cV:41:ALA:HB2	1:cV:48:MET:CE	2.50	0.41
1:aW:297:LEU:HD23	1:aW:321:LEU:HD11	2.02	0.41
1:Y1:41:ALA:HB2	1:Y1:48:MET:CE	2.50	0.41
1:Y1:63:GLN:NE2	1:Z9:98:GLN:HB2	2.35	0.41
1:Y1:158:LYS:HB2	1:Y1:158:LYS:HE2	1.81	0.41
1:Y1:223:LYS:CG	1:dC:141:GLN:HG2	2.50	0.41
1:Y1:257:ILE:N	1:Y1:257:ILE:CD1	2.84	0.41
1:Y1:417:LEU:C	1:Y1:417:LEU:HD13	2.46	0.41
1:Y1:457:ILE:HD13	1:Y1:457:ILE:HA	1.86	0.41
1:Y1:497:GLN:HG3	1:cV:481:PHE:CE2	2.56	0.41
1:Q2:65:ILE:HA	1:Q2:68:THR:CG2	2.51	0.41
1:Q2:75:ILE:HG21	1:Q2:445:GLN:HB2	2.03	0.41
1:Q2:158:LYS:HE2	1:Q2:158:LYS:HB2	1.81	0.41
1:Q2:273:ARG:HG3	1:Q2:274:LEU:N	2.35	0.41
1:Q2:417:LEU:HD11	1:Q2:421:MET:CE	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:417:LEU:O	1:Q2:421:MET:HG2	2.21	0.41
1:Q2:457:ILE:HD13	1:Q2:457:ILE:HA	1.86	0.41
1:I3:78:ALA:C	1:I3:82:MET:HE2	2.44	0.41
1:I3:273:ARG:HG3	1:I3:274:LEU:N	2.35	0.41
1:R4:75:ILE:HG21	1:R4:445:GLN:HB2	2.03	0.41
1:R4:158:LYS:HE2	1:R4:158:LYS:HB2	1.81	0.41
1:R4:273:ARG:HG3	1:R4:274:LEU:N	2.35	0.41
1:R4:417:LEU:HD11	1:R4:421:MET:CE	2.46	0.41
1:R4:417:LEU:O	1:R4:421:MET:HG2	2.21	0.41
1:S5:41:ALA:HB2	1:S5:48:MET:CE	2.50	0.41
1:S5:239:THR:CG2	1:S5:400:ASN:HD21	2.26	0.41
1:S5:265:ILE:HD13	1:S5:265:ILE:HA	1.96	0.41
1:S5:380:LEU:HA	1:S5:426:ILE:CG2	2.49	0.41
1:S5:417:LEU:O	1:S5:421:MET:HG2	2.21	0.41
1:S5:441:LEU:HD23	1:S5:441:LEU:HA	1.81	0.41
1:g6:297:LEU:HD23	1:g6:321:LEU:HD11	2.02	0.41
1:g6:417:LEU:O	1:g6:421:MET:HG2	2.21	0.41
1:A7:12:MET:HE2	1:A7:12:MET:HB3	1.95	0.41
1:A7:257:ILE:N	1:A7:257:ILE:CD1	2.84	0.41
1:A7:441:LEU:HD23	1:A7:441:LEU:HA	1.82	0.41
1:A7:498:ALA:O	1:A7:501:VAL:HG13	2.19	0.41
1:e8:75:ILE:HG21	1:e8:445:GLN:HB2	2.03	0.41
1:e8:239:THR:CG2	1:e8:400:ASN:HD21	2.26	0.41
1:e8:262:ILE:CG2	1:e8:265:ILE:HD11	2.51	0.41
1:e8:417:LEU:O	1:e8:421:MET:HG2	2.21	0.41
1:e8:457:ILE:HG21	1:BJ:80:LYS:CG	2.50	0.41
1:Z9:257:ILE:N	1:Z9:257:ILE:CD1	2.84	0.41
1:Z9:457:ILE:HD13	1:Z9:457:ILE:HA	1.86	0.41
1:OA:448:MET:HE2	1:OA:448:MET:HB3	1.97	0.41
1:OA:506:LEU:H	1:OA:506:LEU:CD1	2.28	0.41
1:dC:54:LEU:HD12	1:dC:469:ILE:HD12	2.02	0.41
1:dC:257:ILE:N	1:dC:257:ILE:CD1	2.84	0.41
1:dC:417:LEU:O	1:dC:421:MET:HG2	2.21	0.41
1:dC:434:LEU:HD23	1:dC:434:LEU:HA	1.91	0.41
1:JD:464:ALA:HA	1:KE:9:ILE:CD1	2.47	0.41
1:KE:80:LYS:CG	1:GQ:457:ILE:HG21	2.50	0.41
1:KE:380:LEU:HA	1:KE:426:ILE:CG2	2.49	0.41
1:LF:200:THR:HB	1:MO:294:LYS:HD3	2.02	0.41
1:WG:9:ILE:CD1	1:VR:464:ALA:HA	2.48	0.41
1:WG:63:GLN:NE2	1:VR:98:GLN:HB2	2.36	0.41
1:WG:498:ALA:O	1:WG:501:VAL:HG13	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:41:ALA:HB2	1:UH:48:MET:CE	2.50	0.41
1:UH:350:ILE:HG22	1:UH:352:VAL:HG23	2.01	0.41
1:NI:506:LEU:H	1:NI:506:LEU:CD1	2.28	0.41
1:BJ:75:ILE:HG21	1:BJ:445:GLN:HB2	2.03	0.41
1:fK:75:ILE:HG21	1:fK:445:GLN:HB2	2.03	0.41
1:fK:297:LEU:HD23	1:fK:321:LEU:HD11	2.02	0.41
1:fK:417:LEU:O	1:fK:421:MET:HG2	2.21	0.41
1:HL:273:ARG:HG3	1:HL:274:LEU:N	2.35	0.41
1:XM:65:ILE:HA	1:XM:68:THR:CG2	2.51	0.41
1:XM:75:ILE:HG21	1:XM:445:GLN:HB2	2.03	0.41
1:XM:380:LEU:HA	1:XM:426:ILE:CG2	2.50	0.41
1:XM:498:ALA:O	1:XM:501:VAL:HG13	2.20	0.41
1:DN:75:ILE:HG21	1:DN:445:GLN:HB2	2.03	0.41
1:DN:94:VAL:O	1:EX:63:GLN:HG2	2.21	0.41
1:DN:448:MET:HE2	1:DN:448:MET:HB3	1.97	0.41
1:DN:506:LEU:H	1:DN:506:LEU:CD1	2.28	0.41
1:MO:81:ALA:HB1	1:MO:138:LEU:HD11	2.01	0.41
1:MO:506:LEU:H	1:MO:506:LEU:CD1	2.28	0.41
1:TP:41:ALA:HB2	1:TP:48:MET:CE	2.50	0.41
1:GQ:273:ARG:HG3	1:GQ:274:LEU:N	2.35	0.41
1:VR:54:LEU:HD12	1:VR:469:ILE:HD12	2.02	0.41
1:VR:75:ILE:HG21	1:VR:445:GLN:HB2	2.03	0.41
1:bS:54:LEU:HD12	1:bS:469:ILE:HD12	2.02	0.41
1:bS:158:LYS:HB2	1:bS:158:LYS:HE2	1.81	0.41
1:bS:223:LYS:HB3	1:bS:223:LYS:HE2	1.98	0.41
1:bS:257:ILE:N	1:bS:257:ILE:CD1	2.84	0.41
1:bS:380:LEU:HA	1:bS:426:ILE:CG2	2.49	0.41
1:bS:438:ARG:HB3	1:cV:48:MET:CE	2.44	0.41
1:CT:75:ILE:HG21	1:CT:445:GLN:HB2	2.03	0.41
1:CT:498:ALA:O	1:CT:501:VAL:HG13	2.19	0.41
1:PU:75:ILE:HG21	1:PU:445:GLN:HB2	2.03	0.41
1:PU:417:LEU:HD11	1:PU:421:MET:CE	2.46	0.41
1:cV:297:LEU:HD23	1:cV:321:LEU:HD11	2.02	0.41
1:cV:417:LEU:O	1:cV:421:MET:HG2	2.21	0.41
1:aW:41:ALA:HB2	1:aW:48:MET:CE	2.50	0.41
1:aW:380:LEU:HA	1:aW:426:ILE:CG2	2.50	0.41
1:EX:75:ILE:HG21	1:EX:445:GLN:HB2	2.03	0.41
1:EX:506:LEU:H	1:EX:506:LEU:CD1	2.28	0.41
1:Y1:214:ILE:HD12	1:Y1:214:ILE:HA	1.88	0.41
1:I3:309:ILE:HD12	1:I3:309:ILE:HA	1.88	0.41
1:S5:20:LEU:HD23	1:S5:20:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:29:LEU:HD23	1:g6:29:LEU:HA	1.96	0.41
1:A7:75:ILE:HG21	1:A7:445:GLN:HB2	2.03	0.41
1:A7:457:ILE:HG21	1:FB:80:LYS:CB	2.51	0.41
1:e8:257:ILE:N	1:e8:257:ILE:CD1	2.84	0.41
1:e8:417:LEU:HD13	1:e8:417:LEU:C	2.46	0.41
1:Z9:214:ILE:HD12	1:Z9:214:ILE:HA	1.88	0.41
1:Z9:417:LEU:C	1:Z9:417:LEU:HD13	2.46	0.41
1:Z9:448:MET:HE2	1:Z9:448:MET:HB3	1.97	0.41
1:Z9:507:ARG:HD2	1:aW:478:SER:OG	2.21	0.41
1:FB:75:ILE:HG21	1:FB:445:GLN:HB2	2.03	0.41
1:FB:273:ARG:HG3	1:FB:274:LEU:N	2.35	0.41
1:FB:506:LEU:H	1:FB:506:LEU:CD1	2.28	0.41
1:dC:297:LEU:HD23	1:dC:321:LEU:HD11	2.02	0.41
1:dC:380:LEU:HA	1:dC:426:ILE:CG2	2.49	0.41
1:JD:29:LEU:HD23	1:JD:29:LEU:HA	1.96	0.41
1:LF:82:MET:HE3	1:LF:82:MET:HB2	1.82	0.41
1:LF:273:ARG:HG3	1:LF:274:LEU:N	2.35	0.41
1:LF:417:LEU:O	1:LF:421:MET:HG2	2.21	0.41
1:WG:65:ILE:HA	1:WG:68:THR:CG2	2.51	0.41
1:WG:75:ILE:HG21	1:WG:445:GLN:HB2	2.03	0.41
1:NI:12:MET:HE2	1:NI:12:MET:HB3	1.95	0.41
1:BJ:257:ILE:N	1:BJ:257:ILE:CD1	2.84	0.41
1:BJ:273:ARG:HG3	1:BJ:274:LEU:N	2.35	0.41
1:fK:262:ILE:CG2	1:fK:265:ILE:HD11	2.51	0.41
1:HL:478:SER:OG	1:GQ:507:ARG:HD2	2.21	0.41
1:XM:54:LEU:HD12	1:XM:469:ILE:HD12	2.02	0.41
1:DN:214:ILE:HG13	1:DN:234:ALA:HB1	2.03	0.41
1:DN:273:ARG:HG3	1:DN:274:LEU:N	2.35	0.41
1:MO:12:MET:HE2	1:MO:12:MET:HB3	1.95	0.41
1:MO:82:MET:HE3	1:MO:82:MET:HB2	1.82	0.41
1:MO:257:ILE:N	1:MO:257:ILE:CD1	2.84	0.41
1:TP:350:ILE:HG22	1:TP:352:VAL:HG23	2.02	0.41
1:VR:65:ILE:HA	1:VR:68:THR:CG2	2.52	0.41
1:bS:65:ILE:HA	1:bS:68:THR:CG2	2.51	0.41
1:bS:297:LEU:HD23	1:bS:321:LEU:HD11	2.02	0.41
1:bS:417:LEU:O	1:bS:421:MET:HG2	2.21	0.41
1:CT:273:ARG:HG3	1:CT:274:LEU:N	2.35	0.41
1:PU:273:ARG:HG3	1:PU:274:LEU:N	2.35	0.41
1:PU:417:LEU:O	1:PU:421:MET:HG2	2.21	0.41
1:cV:54:LEU:HD12	1:cV:469:ILE:HD12	2.02	0.41
1:cV:65:ILE:HA	1:cV:68:THR:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cV:214:ILE:HG13	1:cV:234:ALA:HB1	2.03	0.41
1:cV:257:ILE:N	1:cV:257:ILE:CD1	2.84	0.41
1:cV:434:LEU:HD23	1:cV:434:LEU:HA	1.91	0.41
1:aW:417:LEU:HD13	1:aW:417:LEU:C	2.46	0.41
1:aW:448:MET:HE2	1:aW:448:MET:HB3	1.97	0.41
1:EX:214:ILE:HG13	1:EX:234:ALA:HB1	2.03	0.41
1:Y1:448:MET:HE2	1:Y1:448:MET:HB3	1.97	0.40
1:I3:81:ALA:HB1	1:I3:138:LEU:HD11	2.00	0.40
1:R4:65:ILE:HA	1:R4:68:THR:CG2	2.52	0.40
1:R4:294:LYS:HB2	1:R4:294:LYS:HE2	1.69	0.40
1:S5:223:LYS:CG	1:XM:141:GLN:HG2	2.51	0.40
1:g6:75:ILE:HG21	1:g6:445:GLN:HB2	2.03	0.40
1:g6:257:ILE:N	1:g6:257:ILE:CD1	2.84	0.40
1:g6:417:LEU:C	1:g6:417:LEU:HD13	2.46	0.40
1:A7:262:ILE:CG2	1:A7:265:ILE:HD11	2.51	0.40
1:A7:273:ARG:HG3	1:A7:274:LEU:N	2.35	0.40
1:Z9:433:MET:HE2	1:Z9:433:MET:HB3	1.74	0.40
1:Z9:434:LEU:HD23	1:Z9:434:LEU:HA	1.91	0.40
1:OA:12:MET:HE2	1:OA:12:MET:HB3	1.95	0.40
1:FB:48:MET:CE	1:EX:438:ARG:HB3	2.44	0.40
1:FB:214:ILE:HG13	1:FB:234:ALA:HB1	2.03	0.40
1:FB:257:ILE:N	1:FB:257:ILE:CD1	2.84	0.40
1:dC:65:ILE:HA	1:dC:68:THR:CG2	2.52	0.40
1:JD:380:LEU:HA	1:JD:426:ILE:CG2	2.50	0.40
1:JD:417:LEU:O	1:JD:421:MET:HG2	2.21	0.40
1:JD:457:ILE:CD1	1:KE:16:VAL:HG11	2.51	0.40
1:KE:29:LEU:HD23	1:KE:29:LEU:HA	1.96	0.40
1:KE:273:ARG:HG3	1:KE:274:LEU:N	2.35	0.40
1:KE:417:LEU:O	1:KE:421:MET:HG2	2.21	0.40
1:KE:457:ILE:HG21	1:NI:80:LYS:CB	2.50	0.40
1:LF:432:LYS:HE3	1:LF:432:LYS:HB2	1.84	0.40
1:WG:54:LEU:HD12	1:WG:469:ILE:HD12	2.02	0.40
1:UH:65:ILE:HA	1:UH:68:THR:CG2	2.51	0.40
1:NI:257:ILE:N	1:NI:257:ILE:CD1	2.84	0.40
1:fK:29:LEU:HD23	1:fK:29:LEU:HA	1.96	0.40
1:fK:80:LYS:CB	1:cV:457:ILE:HG21	2.51	0.40
1:fK:257:ILE:N	1:fK:257:ILE:CD1	2.84	0.40
1:HL:309:ILE:HD12	1:HL:309:ILE:HA	1.88	0.40
1:XM:455:ILE:HD13	1:XM:455:ILE:HA	1.88	0.40
1:MO:230:VAL:HG22	1:MO:344:ARG:HG3	2.02	0.40
1:MO:433:MET:HB3	1:MO:433:MET:HE2	1.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:214:ILE:HD12	1:TP:214:ILE:HA	1.88	0.40
1:TP:417:LEU:O	1:TP:421:MET:HG2	2.21	0.40
1:bS:29:LEU:HD23	1:bS:29:LEU:HA	1.96	0.40
1:bS:214:ILE:HG13	1:bS:234:ALA:HB1	2.03	0.40
1:bS:262:ILE:CG2	1:bS:265:ILE:HD11	2.51	0.40
1:CT:265:ILE:HD13	1:CT:265:ILE:HA	1.96	0.40
1:PU:20:LEU:HD23	1:PU:20:LEU:HA	1.91	0.40
1:PU:65:ILE:HA	1:PU:68:THR:CG2	2.52	0.40
1:PU:457:ILE:HD13	1:PU:457:ILE:HA	1.86	0.40
1:cV:158:LYS:HB2	1:cV:158:LYS:HE2	1.81	0.40
1:cV:380:LEU:HA	1:cV:426:ILE:CG2	2.50	0.40
1:aW:214:ILE:HD12	1:aW:214:ILE:HA	1.88	0.40
1:aW:433:MET:HE2	1:aW:433:MET:HB3	1.74	0.40
1:aW:434:LEU:HD23	1:aW:434:LEU:HA	1.91	0.40
1:EX:273:ARG:HG3	1:EX:274:LEU:N	2.35	0.40
1:Y1:65:ILE:HA	1:Y1:68:THR:CG2	2.51	0.40
1:Q2:20:LEU:HD23	1:Q2:20:LEU:HA	1.91	0.40
1:Q2:37:ARG:HB3	1:Q2:470:ARG:O	2.22	0.40
1:Q2:294:LYS:HB2	1:Q2:294:LYS:HE2	1.69	0.40
1:R4:37:ARG:HB3	1:R4:470:ARG:O	2.22	0.40
1:R4:432:LYS:HE3	1:R4:432:LYS:HB2	1.84	0.40
1:g6:214:ILE:HD12	1:g6:214:ILE:HA	1.88	0.40
1:A7:81:ALA:HB1	1:A7:138:LEU:HD11	2.01	0.40
1:A7:417:LEU:O	1:A7:421:MET:HG2	2.21	0.40
1:A7:433:MET:HE2	1:A7:433:MET:HB3	1.74	0.40
1:e8:80:LYS:CB	1:dC:457:ILE:HG21	2.51	0.40
1:e8:214:ILE:HD12	1:e8:214:ILE:HA	1.88	0.40
1:e8:481:PHE:CE2	1:dC:497:GLN:HG3	2.56	0.40
1:OA:257:ILE:N	1:OA:257:ILE:CD1	2.84	0.40
1:dC:158:LYS:HB2	1:dC:158:LYS:HE2	1.81	0.40
1:dC:214:ILE:HG13	1:dC:234:ALA:HB1	2.03	0.40
1:dC:262:ILE:CG2	1:dC:265:ILE:HD11	2.51	0.40
1:UH:265:ILE:HD13	1:UH:265:ILE:HA	1.95	0.40
1:UH:345:LEU:HD13	1:UH:428:GLU:HG2	2.03	0.40
1:UH:417:LEU:O	1:UH:421:MET:HG2	2.21	0.40
1:NI:75:ILE:HG21	1:NI:445:GLN:HB2	2.03	0.40
1:NI:82:MET:HE3	1:NI:82:MET:HB2	1.82	0.40
1:BJ:81:ALA:HB1	1:BJ:138:LEU:HD11	2.01	0.40
1:BJ:262:ILE:CG2	1:BJ:265:ILE:HD11	2.51	0.40
1:fK:417:LEU:C	1:fK:417:LEU:HD13	2.46	0.40
1:DN:257:ILE:N	1:DN:257:ILE:CD1	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:65:ILE:HA	1:TP:68:THR:CG2	2.52	0.40
1:TP:265:ILE:HD13	1:TP:265:ILE:HA	1.96	0.40
1:TP:345:LEU:HD13	1:TP:428:GLU:HG2	2.03	0.40
1:TP:417:LEU:HD13	1:TP:417:LEU:C	2.46	0.40
1:GQ:265:ILE:HD13	1:GQ:265:ILE:HA	1.96	0.40
1:VR:497:GLN:HG3	1:aW:481:PHE:CE2	2.56	0.40
1:bS:434:LEU:HD23	1:bS:434:LEU:HA	1.91	0.40
1:CT:257:ILE:N	1:CT:257:ILE:CD1	2.84	0.40
1:CT:380:LEU:HA	1:CT:426:ILE:CG2	2.50	0.40
1:PU:37:ARG:HB3	1:PU:470:ARG:O	2.22	0.40
1:cV:262:ILE:CG2	1:cV:265:ILE:HD11	2.51	0.40
1:aW:417:LEU:O	1:aW:421:MET:HG2	2.21	0.40
1:aW:457:ILE:HD13	1:aW:457:ILE:HA	1.86	0.40
1:EX:257:ILE:N	1:EX:257:ILE:CD1	2.84	0.40
1:Y1:82:MET:HE3	1:Y1:82:MET:HB2	1.82	0.40
1:Y1:200:THR:HB	1:cV:294:LYS:HD3	2.02	0.40
1:Y1:433:MET:HE2	1:Y1:433:MET:HB3	1.74	0.40
1:Y1:434:LEU:HD23	1:Y1:434:LEU:HA	1.91	0.40
1:Q2:497:GLN:HG3	1:TP:481:PHE:CE2	2.55	0.40
1:I3:457:ILE:CD1	1:HL:16:VAL:HG11	2.51	0.40
1:S5:65:ILE:HA	1:S5:68:THR:CG2	2.52	0.40
1:S5:345:LEU:HD13	1:S5:428:GLU:HG2	2.03	0.40
1:S5:417:LEU:HD13	1:S5:417:LEU:C	2.46	0.40
1:A7:9:ILE:CD1	1:BJ:464:ALA:HA	2.48	0.40
1:e8:29:LEU:HD23	1:e8:29:LEU:HA	1.96	0.40
1:e8:214:ILE:HG13	1:e8:234:ALA:HB1	2.03	0.40
1:Z9:65:ILE:HA	1:Z9:68:THR:CG2	2.51	0.40
1:Z9:417:LEU:O	1:Z9:421:MET:HG2	2.21	0.40
1:OA:75:ILE:HG21	1:OA:445:GLN:HB2	2.03	0.40
1:FB:309:ILE:HD12	1:FB:309:ILE:HA	1.88	0.40
1:JD:37:ARG:HB3	1:JD:470:ARG:O	2.22	0.40
1:JD:273:ARG:HG3	1:JD:274:LEU:N	2.35	0.40
1:LF:29:LEU:HD23	1:LF:29:LEU:HA	1.96	0.40
1:WG:345:LEU:HD13	1:WG:428:GLU:HG2	2.03	0.40
1:UH:417:LEU:HD13	1:UH:417:LEU:C	2.46	0.40
1:NI:98:GLN:HB2	1:MO:63:GLN:NE2	2.37	0.40
1:BJ:380:LEU:HA	1:BJ:426:ILE:CG2	2.50	0.40
1:BJ:417:LEU:O	1:BJ:421:MET:HG2	2.21	0.40
1:fK:214:ILE:HD12	1:fK:214:ILE:HA	1.88	0.40
1:fK:294:LYS:HD3	1:cV:200:THR:HB	2.02	0.40
1:HL:481:PHE:CE2	1:EX:497:GLN:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XM:345:LEU:HD13	1:XM:428:GLU:HG2	2.03	0.40
1:XM:448:MET:HE2	1:XM:448:MET:HB3	1.97	0.40
1:MO:265:ILE:HD13	1:MO:265:ILE:HA	1.96	0.40
1:MO:417:LEU:O	1:MO:421:MET:HG2	2.21	0.40
1:VR:86:LEU:HD22	1:VR:434:LEU:HD13	2.04	0.40
1:VR:345:LEU:HD13	1:VR:428:GLU:HG2	2.03	0.40
1:CT:81:ALA:HB1	1:CT:138:LEU:HD11	2.01	0.40
1:CT:262:ILE:CG2	1:CT:265:ILE:HD11	2.51	0.40
1:PU:29:LEU:HD23	1:PU:29:LEU:HA	1.96	0.40
1:cV:29:LEU:HD23	1:cV:29:LEU:HA	1.96	0.40
1:EX:448:MET:HE2	1:EX:448:MET:HB3	1.97	0.40
1:Y1:417:LEU:O	1:Y1:421:MET:HG2	2.21	0.40
1:I3:37:ARG:HB3	1:I3:470:ARG:O	2.21	0.40
1:I3:75:ILE:HG21	1:I3:445:GLN:HB2	2.03	0.40
1:I3:98:GLN:HB2	1:HL:63:GLN:NE2	2.37	0.40
1:I3:506:LEU:H	1:I3:506:LEU:CD1	2.28	0.40
1:JD:506:LEU:H	1:JD:506:LEU:CD1	2.28	0.40
1:KE:37:ARG:HB3	1:KE:470:ARG:O	2.22	0.40
1:KE:98:GLN:HB2	1:LF:63:GLN:NE2	2.37	0.40
1:LF:37:ARG:HB3	1:LF:470:ARG:O	2.22	0.40
1:LF:75:ILE:HG21	1:LF:445:GLN:HB2	2.03	0.40
1:WG:86:LEU:HD22	1:WG:434:LEU:HD13	2.04	0.40
1:WG:448:MET:HE2	1:WG:448:MET:HB3	1.97	0.40
1:UH:214:ILE:HD12	1:UH:214:ILE:HA	1.88	0.40
1:NI:448:MET:HE2	1:NI:448:MET:HB3	1.97	0.40
1:BJ:37:ARG:HB3	1:BJ:470:ARG:O	2.21	0.40
1:BJ:86:LEU:HD22	1:BJ:434:LEU:HD13	2.04	0.40
1:BJ:417:LEU:C	1:BJ:417:LEU:HD13	2.46	0.40
1:BJ:441:LEU:HD23	1:BJ:441:LEU:HA	1.81	0.40
1:fK:214:ILE:HG13	1:fK:234:ALA:HB1	2.03	0.40
1:XM:86:LEU:HD22	1:XM:434:LEU:HD13	2.04	0.40
1:DN:145:LYS:HA	1:DN:145:LYS:HD3	1.95	0.40
1:DN:504:ASN:O	1:DN:508:LEU:HG	2.22	0.40
1:MO:75:ILE:HG21	1:MO:445:GLN:HB2	2.03	0.40
1:TP:380:LEU:HA	1:TP:426:ILE:CG2	2.50	0.40
1:TP:441:LEU:HD23	1:TP:441:LEU:HA	1.82	0.40
1:GQ:75:ILE:HG21	1:GQ:445:GLN:HB2	2.03	0.40
1:GQ:191:LYS:HE2	1:GQ:191:LYS:HB3	1.73	0.40
1:GQ:309:ILE:HD12	1:GQ:309:ILE:HA	1.89	0.40
1:GQ:417:LEU:O	1:GQ:421:MET:HG2	2.21	0.40
1:bS:37:ARG:HB3	1:bS:470:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:95:LYS:HE3	1:bS:115:ASP:OD2	2.22	0.40
1:CT:86:LEU:HD22	1:CT:434:LEU:HD13	2.04	0.40
1:CT:417:LEU:O	1:CT:421:MET:HG2	2.21	0.40
1:PU:294:LYS:HB2	1:PU:294:LYS:HE2	1.69	0.40
1:PU:297:LEU:HD23	1:PU:321:LEU:HD11	2.02	0.40
1:aW:65:ILE:HA	1:aW:68:THR:CG2	2.52	0.40
1:EX:196:VAL:HG13	1:EX:197:ASN:N	2.37	0.40
1:EX:309:ILE:HD12	1:EX:309:ILE:HA	1.88	0.40
1:Y1:504:ASN:O	1:Y1:508:LEU:HG	2.22	0.40
1:R4:457:ILE:HG21	1:S5:80:LYS:CG	2.50	0.40
1:g6:98:GLN:HB2	1:fK:63:GLN:NE2	2.36	0.40
1:A7:37:ARG:HB3	1:A7:470:ARG:O	2.22	0.40
1:A7:86:LEU:HD22	1:A7:434:LEU:HD13	2.04	0.40
1:A7:380:LEU:HA	1:A7:426:ILE:CG2	2.50	0.40
1:A7:417:LEU:C	1:A7:417:LEU:HD13	2.47	0.40
1:e8:265:ILE:HD13	1:e8:265:ILE:HA	1.96	0.40
1:Z9:86:LEU:HD22	1:Z9:434:LEU:HD13	2.04	0.40
1:OA:82:MET:HE3	1:OA:82:MET:HB2	1.82	0.40
1:FB:86:LEU:HD22	1:FB:434:LEU:HD13	2.04	0.40
1:FB:504:ASN:O	1:FB:508:LEU:HG	2.22	0.40
1:dC:29:LEU:HD23	1:dC:29:LEU:HA	1.96	0.40
1:dC:95:LYS:HE3	1:dC:115:ASP:OD2	2.22	0.40
1:dC:417:LEU:C	1:dC:417:LEU:HD13	2.46	0.40
1:KE:506:LEU:H	1:KE:506:LEU:CD1	2.28	0.40
1:LF:504:ASN:O	1:LF:508:LEU:HG	2.22	0.40
1:WG:16:VAL:HG11	1:VR:457:ILE:CD1	2.51	0.40
1:WG:37:ARG:HB3	1:WG:470:ARG:O	2.22	0.40
1:UH:380:LEU:HA	1:UH:426:ILE:CG2	2.49	0.40
1:NI:417:LEU:O	1:NI:421:MET:HG2	2.21	0.40
1:HL:75:ILE:HG21	1:HL:445:GLN:HB2	2.03	0.40
1:HL:81:ALA:HB1	1:HL:138:LEU:HD11	2.01	0.40
1:HL:417:LEU:O	1:HL:421:MET:HG2	2.21	0.40
1:HL:506:LEU:H	1:HL:506:LEU:CD1	2.28	0.40
1:XM:37:ARG:HB3	1:XM:470:ARG:O	2.22	0.40
1:DN:196:VAL:HG13	1:DN:197:ASN:N	2.37	0.40
1:MO:86:LEU:HD22	1:MO:434:LEU:HD13	2.04	0.40
1:GQ:37:ARG:HB3	1:GQ:470:ARG:O	2.22	0.40
1:GQ:506:LEU:H	1:GQ:506:LEU:CD1	2.28	0.40
1:bS:309:ILE:HD12	1:bS:309:ILE:HA	1.88	0.40
1:CT:37:ARG:HB3	1:CT:470:ARG:O	2.22	0.40
1:CT:417:LEU:HD13	1:CT:417:LEU:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cV:37:ARG:HB3	1:cV:470:ARG:O	2.22	0.40
1:cV:95:LYS:HE3	1:cV:115:ASP:OD2	2.22	0.40
1:cV:433:MET:HE2	1:cV:433:MET:HB3	1.74	0.40
1:aW:54:LEU:HD12	1:aW:469:ILE:HD12	2.02	0.40
1:aW:345:LEU:HD13	1:aW:428:GLU:HG2	2.03	0.40
1:aW:432:LYS:HE3	1:aW:432:LYS:HB2	1.84	0.40
1:EX:504:ASN:O	1:EX:508:LEU:HG	2.22	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	A7	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	BJ	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	CT	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	DN	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	EX	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	FB	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	GQ	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	HL	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	I3	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	JD	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	KE	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	LF	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	MO	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	NI	506/508 (100%)	492 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	OA	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	PU	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	Q2	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	R4	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	S5	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	TP	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	UH	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	VR	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	WG	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	XM	506/508 (100%)	493 (97%)	13 (3%)	0	100	100
1	Y1	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	Z9	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	aW	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	bS	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	cV	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	dC	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	e8	506/508 (100%)	493 (97%)	13 (3%)	0	100	100
1	fK	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
1	g6	506/508 (100%)	492 (97%)	14 (3%)	0	100	100
All	All	16698/16764 (100%)	16238 (97%)	460 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	A7	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	BJ	409/409 (100%)	406 (99%)	3 (1%)	81	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CT	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	DN	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	EX	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	FB	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	GQ	409/409 (100%)	404 (99%)	5 (1%)	67	87
1	HL	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	I3	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	JD	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	KE	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	LF	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	MO	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	NI	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	OA	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	PU	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	Q2	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	R4	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	S5	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	TP	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	UH	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	VR	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	WG	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	XM	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	Y1	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	Z9	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	aW	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	bS	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	cV	409/409 (100%)	405 (99%)	4 (1%)	73	90
1	dC	409/409 (100%)	406 (99%)	3 (1%)	81	93
1	e8	409/409 (100%)	407 (100%)	2 (0%)	86	95
1	fK	409/409 (100%)	405 (99%)	4 (1%)	73	90
1	g6	409/409 (100%)	406 (99%)	3 (1%)	81	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	13497/13497 (100%)	13412 (99%)	85 (1%)	82 94

All (85) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Y1	302	ILE
1	Y1	504	ASN
1	Q2	302	ILE
1	Q2	504	ASN
1	I3	302	ILE
1	I3	504	ASN
1	R4	302	ILE
1	R4	504	ASN
1	S5	302	ILE
1	S5	359	GLN
1	S5	504	ASN
1	g6	302	ILE
1	g6	356	SER
1	g6	504	ASN
1	A7	302	ILE
1	A7	356	SER
1	A7	504	ASN
1	e8	302	ILE
1	e8	504	ASN
1	Z9	302	ILE
1	Z9	504	ASN
1	OA	302	ILE
1	OA	504	ASN
1	FB	302	ILE
1	FB	504	ASN
1	dC	302	ILE
1	dC	359	GLN
1	dC	504	ASN
1	JD	302	ILE
1	JD	356	SER
1	JD	504	ASN
1	KE	302	ILE
1	KE	504	ASN
1	LF	302	ILE
1	LF	356	SER
1	LF	504	ASN
1	WG	302	ILE

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Mol	Chain	Res	Type
1	WG	359	GLN
1	WG	504	ASN
1	UH	302	ILE
1	UH	359	GLN
1	UH	504	ASN
1	NI	302	ILE
1	NI	504	ASN
1	BJ	302	ILE
1	BJ	359	GLN
1	BJ	504	ASN
1	fK	302	ILE
1	fK	356	SER
1	fK	359	GLN
1	fK	504	ASN
1	HL	302	ILE
1	HL	504	ASN
1	XM	302	ILE
1	XM	359	GLN
1	XM	504	ASN
1	DN	302	ILE
1	DN	359	GLN
1	DN	504	ASN
1	MO	302	ILE
1	MO	504	ASN
1	TP	302	ILE
1	TP	359	GLN
1	TP	504	ASN
1	GQ	302	ILE
1	GQ	309	ILE
1	GQ	356	SER
1	GQ	359	GLN
1	GQ	504	ASN
1	VR	302	ILE
1	VR	504	ASN
1	bS	302	ILE
1	bS	504	ASN
1	CT	302	ILE
1	CT	504	ASN
1	PU	302	ILE
1	PU	504	ASN
1	cV	302	ILE
1	cV	356	SER

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Mol	Chain	Res	Type
1	cV	359	GLN
1	cV	504	ASN
1	aW	302	ILE
1	aW	504	ASN
1	EX	302	ILE
1	EX	504	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (230) such sidechains are listed below:

Mol	Chain	Res	Type
1	Y1	8	ASN
1	Y1	63	GLN
1	Y1	141	GLN
1	Y1	155	GLN
1	Y1	359	GLN
1	Y1	454	ASN
1	Q2	8	ASN
1	Q2	57	GLN
1	Q2	63	GLN
1	Q2	76	GLN
1	Q2	141	GLN
1	Q2	154	ASN
1	Q2	155	GLN
1	Q2	359	GLN
1	Q2	454	ASN
1	Q2	482	ASN
1	I3	8	ASN
1	I3	76	GLN
1	I3	155	GLN
1	I3	359	GLN
1	I3	454	ASN
1	I3	482	ASN
1	R4	8	ASN
1	R4	57	GLN
1	R4	63	GLN
1	R4	141	GLN
1	R4	154	ASN
1	R4	155	GLN
1	R4	359	GLN
1	R4	454	ASN
1	R4	489	GLN
1	S5	10	ASN

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Mol	Chain	Res	Type
1	S5	63	GLN
1	S5	141	GLN
1	S5	154	ASN
1	S5	155	GLN
1	S5	359	GLN
1	S5	454	ASN
1	g6	8	ASN
1	g6	76	GLN
1	g6	155	GLN
1	g6	359	GLN
1	g6	454	ASN
1	A7	8	ASN
1	A7	63	GLN
1	A7	141	GLN
1	A7	154	ASN
1	A7	155	GLN
1	A7	359	GLN
1	A7	454	ASN
1	A7	489	GLN
1	e8	8	ASN
1	e8	63	GLN
1	e8	141	GLN
1	e8	154	ASN
1	e8	155	GLN
1	e8	359	GLN
1	e8	454	ASN
1	Z9	8	ASN
1	Z9	63	GLN
1	Z9	76	GLN
1	Z9	154	ASN
1	Z9	155	GLN
1	Z9	359	GLN
1	Z9	454	ASN
1	OA	8	ASN
1	OA	76	GLN
1	OA	155	GLN
1	OA	359	GLN
1	OA	454	ASN
1	FB	8	ASN
1	FB	63	GLN
1	FB	154	ASN
1	FB	155	GLN

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Mol	Chain	Res	Type
1	FB	359	GLN
1	FB	454	ASN
1	FB	489	GLN
1	dC	8	ASN
1	dC	63	GLN
1	dC	141	GLN
1	dC	154	ASN
1	dC	155	GLN
1	dC	359	GLN
1	dC	454	ASN
1	dC	489	GLN
1	JD	8	ASN
1	JD	57	GLN
1	JD	76	GLN
1	JD	141	GLN
1	JD	155	GLN
1	JD	359	GLN
1	JD	454	ASN
1	KE	8	ASN
1	KE	63	GLN
1	KE	76	GLN
1	KE	141	GLN
1	KE	154	ASN
1	KE	155	GLN
1	KE	359	GLN
1	KE	454	ASN
1	LF	8	ASN
1	LF	57	GLN
1	LF	63	GLN
1	LF	141	GLN
1	LF	155	GLN
1	LF	359	GLN
1	LF	454	ASN
1	LF	489	GLN
1	WG	8	ASN
1	WG	63	GLN
1	WG	76	GLN
1	WG	154	ASN
1	WG	155	GLN
1	WG	359	GLN
1	WG	454	ASN
1	UH	76	GLN

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Mol	Chain	Res	Type
1	UH	155	GLN
1	UH	359	GLN
1	UH	454	ASN
1	NI	8	ASN
1	NI	57	GLN
1	NI	63	GLN
1	NI	76	GLN
1	NI	154	ASN
1	NI	155	GLN
1	NI	359	GLN
1	NI	454	ASN
1	BJ	8	ASN
1	BJ	10	ASN
1	BJ	63	GLN
1	BJ	76	GLN
1	BJ	154	ASN
1	BJ	155	GLN
1	BJ	359	GLN
1	BJ	454	ASN
1	fK	8	ASN
1	fK	63	GLN
1	fK	76	GLN
1	fK	154	ASN
1	fK	155	GLN
1	fK	359	GLN
1	fK	454	ASN
1	HL	8	ASN
1	HL	63	GLN
1	HL	76	GLN
1	HL	154	ASN
1	HL	155	GLN
1	HL	359	GLN
1	HL	454	ASN
1	XM	8	ASN
1	XM	63	GLN
1	XM	154	ASN
1	XM	155	GLN
1	XM	359	GLN
1	XM	454	ASN
1	XM	489	GLN
1	DN	8	ASN
1	DN	76	GLN

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Mol	Chain	Res	Type
1	DN	155	GLN
1	DN	359	GLN
1	DN	454	ASN
1	MO	8	ASN
1	MO	63	GLN
1	MO	141	GLN
1	MO	154	ASN
1	MO	155	GLN
1	MO	359	GLN
1	MO	454	ASN
1	TP	8	ASN
1	TP	10	ASN
1	TP	63	GLN
1	TP	76	GLN
1	TP	141	GLN
1	TP	154	ASN
1	TP	155	GLN
1	TP	359	GLN
1	TP	454	ASN
1	GQ	8	ASN
1	GQ	63	GLN
1	GQ	141	GLN
1	GQ	155	GLN
1	GQ	359	GLN
1	GQ	454	ASN
1	VR	8	ASN
1	VR	76	GLN
1	VR	155	GLN
1	VR	359	GLN
1	VR	454	ASN
1	bS	8	ASN
1	bS	76	GLN
1	bS	141	GLN
1	bS	155	GLN
1	bS	359	GLN
1	bS	454	ASN
1	bS	499	ASN
1	CT	8	ASN
1	CT	63	GLN
1	CT	76	GLN
1	CT	141	GLN
1	CT	155	GLN

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Mol	Chain	Res	Type
1	CT	359	GLN
1	CT	454	ASN
1	PU	8	ASN
1	PU	76	GLN
1	PU	141	GLN
1	PU	155	GLN
1	PU	359	GLN
1	PU	454	ASN
1	PU	482	ASN
1	cV	8	ASN
1	cV	63	GLN
1	cV	76	GLN
1	cV	154	ASN
1	cV	155	GLN
1	cV	359	GLN
1	cV	454	ASN
1	cV	482	ASN
1	aW	8	ASN
1	aW	76	GLN
1	aW	155	GLN
1	aW	359	GLN
1	aW	454	ASN
1	EX	8	ASN
1	EX	63	GLN
1	EX	76	GLN
1	EX	154	ASN
1	EX	155	GLN
1	EX	359	GLN
1	EX	454	ASN
1	EX	482	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

231 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	UH	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	NI	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	bS	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	Q2	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	GQ	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	PU	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	e8	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	I3	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	JD	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	LF	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	VR	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	I3	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	dC	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	DN	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	FB	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	Y1	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	CT	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	A7	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	Q2	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	Z9	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	UH	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	XM	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	dC	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	Q2	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	GQ	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	aW	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	Z9	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	Z9	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	NI	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	DN	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	GQ	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	aW	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	S5	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	JD	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	TP	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	HL	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	PU	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	A7	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	VR	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	FB	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	GQ	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	A7	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	VR	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	UH	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	R4	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	aW	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	S5	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	XM	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	Z9	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	EX	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	Z9	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	Y1	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	FB	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	Z9	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	g6	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	dC	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	XM	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	S5	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	g6	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	DN	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	CT	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	PU	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	FB	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	TP	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	Z9	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	UH	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	BJ	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	FB	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	WG	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	S5	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	R4	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	MO	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	A7	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	JD	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	LF	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	HL	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	TP	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	UH	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	Y1	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	CT	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	I3	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	cV	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	aW	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	BJ	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	DN	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	EX	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	JD	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	MO	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	I3	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	UH	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	Y1	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	OA	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	A7	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	fK	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	HL	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	VR	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	bS	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	g6	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	EX	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	bS	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	DN	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	HL	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	OA	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	TP	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	XM	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	GQ	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	S5	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	WG	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	g6	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	KE	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	dC	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	NI	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	Y1	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	PU	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	I3	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	CT	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	EX	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	Q2	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	A7	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	Q2	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	MO	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	UH	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	VR	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	DN	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	TP	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	bS	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	MO	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	PU	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	NI	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	BJ	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	I3	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	LF	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	g6	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	cV	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	Y1	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	S5	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	e8	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	WG	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	R4	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	cV	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	e8	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	fK	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	aW	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	VR	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	I3	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	g6	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	PU	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	fK	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	KE	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	BJ	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	HL	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	TP	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	GQ	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	LF	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	R4	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	S5	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	OA	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	XM	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	WG	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	g6	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	cV	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	dC	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	aW	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	EX	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	FB	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	WG	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	MO	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	NI	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	GQ	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	VR	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	KE	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	cV	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	e8	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	JD	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	WG	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	R4	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	MO	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	FB	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	Y1	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	LF	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	TP	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	NI	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	WG	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	DN	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	XM	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	CT	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	aW	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	KE	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	fK	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	fK	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	KE	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	LF	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	OA	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	R4	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	JD	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	EX	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	OA	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	dC	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	BJ	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	LF	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	HL	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	KE	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	cV	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	bS	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	bS	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	fK	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	XM	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	bS	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	BJ	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	e8	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	EX	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	KE	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	BJ	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	OA	601	-	15,16,17	1.12	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	CT	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	JD	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	fK	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	e8	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.09	2 (11%)
2	P8E	MO	601	-	15,16,17	1.13	1 (6%)	17,23,26	2.20	3 (17%)
2	P8E	cV	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	CT	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.10	2 (11%)
2	P8E	R4	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	dC	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	NI	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	OA	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	A7	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	PU	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	Q2	603	-	15,16,17	1.06	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	e8	606	-	15,16,17	1.05	1 (6%)	17,23,26	2.16	2 (11%)
2	P8E	HL	604	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	3 (17%)
2	P8E	Q2	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	2 (11%)

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	UH	602	-	-	0/11/28/32	0/1/1/1
2	P8E	NI	607	-	-	3/11/28/32	0/1/1/1
2	P8E	bS	604	-	-	3/11/28/32	0/1/1/1
2	P8E	Q2	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	GQ	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	PU	601	-	-	0/11/28/32	0/1/1/1
2	P8E	e8	607	-	-	3/11/28/32	0/1/1/1
2	P8E	LF	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	I3	606	-	-	2/11/28/32	0/1/1/1
2	P8E	JD	603	-	-	0/11/28/32	0/1/1/1
2	P8E	VR	604	-	-	3/11/28/32	0/1/1/1
2	P8E	I3	603	-	-	0/11/28/32	0/1/1/1
2	P8E	dC	601	-	-	0/11/28/32	0/1/1/1
2	P8E	DN	604	-	-	3/11/28/32	0/1/1/1
2	P8E	FB	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Y1	603	-	-	0/11/28/32	0/1/1/1
2	P8E	CT	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A7	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Q2	606	-	-	2/11/28/32	0/1/1/1
2	P8E	Z9	606	-	-	2/11/28/32	0/1/1/1
2	P8E	UH	603	-	-	0/11/28/32	0/1/1/1
2	P8E	XM	607	-	-	3/11/28/32	0/1/1/1
2	P8E	dC	603	-	-	0/11/28/32	0/1/1/1
2	P8E	Q2	604	-	-	3/11/28/32	0/1/1/1
2	P8E	GQ	606	-	-	2/11/28/32	0/1/1/1
2	P8E	aW	607	-	-	3/11/28/32	0/1/1/1
2	P8E	Z9	607	-	-	3/11/28/32	0/1/1/1
2	P8E	DN	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Z9	604	-	-	3/11/28/32	0/1/1/1
2	P8E	NI	603	-	-	0/11/28/32	0/1/1/1
2	P8E	GQ	602	-	-	0/11/28/32	0/1/1/1
2	P8E	aW	601	-	-	0/11/28/32	0/1/1/1
2	P8E	S5	602	-	-	0/11/28/32	0/1/1/1
2	P8E	JD	607	-	-	3/11/28/32	0/1/1/1
2	P8E	TP	605	-	1/1/7/7	1/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	HL	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	PU	604	-	-	3/11/28/32	0/1/1/1
2	P8E	A7	607	-	-	3/11/28/32	0/1/1/1
2	P8E	VR	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	FB	602	-	-	0/11/28/32	0/1/1/1
2	P8E	GQ	604	-	-	3/11/28/32	0/1/1/1
2	P8E	A7	602	-	-	0/11/28/32	0/1/1/1
2	P8E	VR	601	-	-	0/11/28/32	0/1/1/1
2	P8E	UH	601	-	-	0/11/28/32	0/1/1/1
2	P8E	R4	606	-	-	2/11/28/32	0/1/1/1
2	P8E	aW	603	-	-	0/11/28/32	0/1/1/1
2	P8E	S5	606	-	-	2/11/28/32	0/1/1/1
2	P8E	XM	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Z9	603	-	-	0/11/28/32	0/1/1/1
2	P8E	EX	601	-	-	0/11/28/32	0/1/1/1
2	P8E	Z9	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Y1	604	-	-	3/11/28/32	0/1/1/1
2	P8E	FB	604	-	-	3/11/28/32	0/1/1/1
2	P8E	Z9	602	-	-	0/11/28/32	0/1/1/1
2	P8E	g6	604	-	-	3/11/28/32	0/1/1/1
2	P8E	dC	606	-	-	2/11/28/32	0/1/1/1
2	P8E	XM	601	-	-	0/11/28/32	0/1/1/1
2	P8E	S5	601	-	-	0/11/28/32	0/1/1/1
2	P8E	g6	601	-	-	0/11/28/32	0/1/1/1
2	P8E	PU	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	DN	606	-	-	2/11/28/32	0/1/1/1
2	P8E	CT	601	-	-	0/11/28/32	0/1/1/1
2	P8E	FB	607	-	-	3/11/28/32	0/1/1/1
2	P8E	TP	606	-	-	2/11/28/32	0/1/1/1
2	P8E	Z9	601	-	-	0/11/28/32	0/1/1/1
2	P8E	UH	606	-	-	2/11/28/32	0/1/1/1
2	P8E	BJ	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	FB	606	-	-	2/11/28/32	0/1/1/1
2	P8E	WG	604	-	-	3/11/28/32	0/1/1/1
2	P8E	S5	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	R4	603	-	-	0/11/28/32	0/1/1/1
2	P8E	MO	604	-	-	3/11/28/32	0/1/1/1
2	P8E	A7	603	-	-	0/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	JD	601	-	-	0/11/28/32	0/1/1/1
2	P8E	LF	604	-	-	3/11/28/32	0/1/1/1
2	P8E	HL	603	-	-	0/11/28/32	0/1/1/1
2	P8E	TP	603	-	-	0/11/28/32	0/1/1/1
2	P8E	UH	607	-	-	3/11/28/32	0/1/1/1
2	P8E	Y1	601	-	-	0/11/28/32	0/1/1/1
2	P8E	CT	606	-	-	2/11/28/32	0/1/1/1
2	P8E	I3	601	-	-	0/11/28/32	0/1/1/1
2	P8E	cV	606	-	-	2/11/28/32	0/1/1/1
2	P8E	aW	606	-	-	2/11/28/32	0/1/1/1
2	P8E	BJ	604	-	-	3/11/28/32	0/1/1/1
2	P8E	DN	603	-	-	0/11/28/32	0/1/1/1
2	P8E	EX	607	-	-	3/11/28/32	0/1/1/1
2	P8E	JD	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	MO	606	-	-	2/11/28/32	0/1/1/1
2	P8E	UH	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	I3	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Y1	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	OA	606	-	-	2/11/28/32	0/1/1/1
2	P8E	fK	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	A7	601	-	-	0/11/28/32	0/1/1/1
2	P8E	HL	601	-	-	0/11/28/32	0/1/1/1
2	P8E	VR	602	-	-	0/11/28/32	0/1/1/1
2	P8E	bS	607	-	-	3/11/28/32	0/1/1/1
2	P8E	g6	607	-	-	3/11/28/32	0/1/1/1
2	P8E	EX	604	-	-	3/11/28/32	0/1/1/1
2	P8E	bS	601	-	-	0/11/28/32	0/1/1/1
2	P8E	DN	602	-	-	0/11/28/32	0/1/1/1
2	P8E	HL	606	-	-	2/11/28/32	0/1/1/1
2	P8E	OA	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	TP	602	-	-	0/11/28/32	0/1/1/1
2	P8E	XM	606	-	-	2/11/28/32	0/1/1/1
2	P8E	GQ	603	-	-	0/11/28/32	0/1/1/1
2	P8E	S5	607	-	-	3/11/28/32	0/1/1/1
2	P8E	WG	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	g6	606	-	-	2/11/28/32	0/1/1/1
2	P8E	NI	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	dC	604	-	-	3/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	KE	601	-	-	0/11/28/32	0/1/1/1
2	P8E	Y1	607	-	-	3/11/28/32	0/1/1/1
2	P8E	PU	607	-	-	3/11/28/32	0/1/1/1
2	P8E	I3	602	-	-	0/11/28/32	0/1/1/1
2	P8E	CT	604	-	-	3/11/28/32	0/1/1/1
2	P8E	EX	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	Q2	607	-	-	3/11/28/32	0/1/1/1
2	P8E	A7	606	-	-	2/11/28/32	0/1/1/1
2	P8E	Q2	601	-	-	0/11/28/32	0/1/1/1
2	P8E	MO	603	-	-	0/11/28/32	0/1/1/1
2	P8E	UH	604	-	-	3/11/28/32	0/1/1/1
2	P8E	VR	603	-	-	0/11/28/32	0/1/1/1
2	P8E	DN	607	-	-	3/11/28/32	0/1/1/1
2	P8E	TP	601	-	-	0/11/28/32	0/1/1/1
2	P8E	bS	606	-	-	2/11/28/32	0/1/1/1
2	P8E	MO	602	-	-	0/11/28/32	0/1/1/1
2	P8E	PU	606	-	-	2/11/28/32	0/1/1/1
2	P8E	NI	604	-	-	3/11/28/32	0/1/1/1
2	P8E	BJ	602	-	-	0/11/28/32	0/1/1/1
2	P8E	I3	607	-	-	3/11/28/32	0/1/1/1
2	P8E	LF	602	-	-	0/11/28/32	0/1/1/1
2	P8E	g6	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	cV	603	-	-	0/11/28/32	0/1/1/1
2	P8E	Y1	606	-	-	2/11/28/32	0/1/1/1
2	P8E	S5	603	-	-	0/11/28/32	0/1/1/1
2	P8E	e8	601	-	-	0/11/28/32	0/1/1/1
2	P8E	WG	606	-	-	2/11/28/32	0/1/1/1
2	P8E	R4	607	-	-	3/11/28/32	0/1/1/1
2	P8E	cV	604	-	-	3/11/28/32	0/1/1/1
2	P8E	e8	602	-	-	0/11/28/32	0/1/1/1
2	P8E	fK	606	-	-	2/11/28/32	0/1/1/1
2	P8E	aW	604	-	-	3/11/28/32	0/1/1/1
2	P8E	VR	606	-	-	2/11/28/32	0/1/1/1
2	P8E	I3	604	-	-	3/11/28/32	0/1/1/1
2	P8E	g6	603	-	-	0/11/28/32	0/1/1/1
2	P8E	PU	602	-	-	0/11/28/32	0/1/1/1
2	P8E	fK	601	-	-	0/11/28/32	0/1/1/1
2	P8E	KE	604	-	-	3/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	BJ	601	-	-	0/11/28/32	0/1/1/1
2	P8E	HL	607	-	-	3/11/28/32	0/1/1/1
2	P8E	TP	607	-	-	3/11/28/32	0/1/1/1
2	P8E	GQ	607	-	-	3/11/28/32	0/1/1/1
2	P8E	LF	606	-	-	2/11/28/32	0/1/1/1
2	P8E	R4	601	-	-	0/11/28/32	0/1/1/1
2	P8E	S5	604	-	-	3/11/28/32	0/1/1/1
2	P8E	OA	604	-	-	3/11/28/32	0/1/1/1
2	P8E	XM	602	-	-	0/11/28/32	0/1/1/1
2	P8E	WG	603	-	-	0/11/28/32	0/1/1/1
2	P8E	g6	602	-	-	0/11/28/32	0/1/1/1
2	P8E	cV	607	-	-	3/11/28/32	0/1/1/1
2	P8E	dC	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	aW	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	EX	606	-	-	2/11/28/32	0/1/1/1
2	P8E	FB	601	-	-	0/11/28/32	0/1/1/1
2	P8E	WG	607	-	-	3/11/28/32	0/1/1/1
2	P8E	MO	607	-	-	3/11/28/32	0/1/1/1
2	P8E	NI	601	-	-	0/11/28/32	0/1/1/1
2	P8E	GQ	601	-	-	0/11/28/32	0/1/1/1
2	P8E	VR	607	-	-	3/11/28/32	0/1/1/1
2	P8E	cV	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	KE	606	-	-	2/11/28/32	0/1/1/1
2	P8E	e8	604	-	-	3/11/28/32	0/1/1/1
2	P8E	JD	602	-	-	0/11/28/32	0/1/1/1
2	P8E	WG	602	-	-	0/11/28/32	0/1/1/1
2	P8E	R4	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	MO	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	FB	603	-	-	0/11/28/32	0/1/1/1
2	P8E	Y1	602	-	-	0/11/28/32	0/1/1/1
2	P8E	LF	607	-	-	3/11/28/32	0/1/1/1
2	P8E	TP	604	-	-	3/11/28/32	0/1/1/1
2	P8E	NI	602	-	-	0/11/28/32	0/1/1/1
2	P8E	WG	601	-	-	0/11/28/32	0/1/1/1
2	P8E	DN	601	-	-	0/11/28/32	0/1/1/1
2	P8E	XM	604	-	-	3/11/28/32	0/1/1/1
2	P8E	CT	607	-	-	3/11/28/32	0/1/1/1
2	P8E	aW	602	-	-	0/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	KE	602	-	-	0/11/28/32	0/1/1/1
2	P8E	fK	603	-	-	0/11/28/32	0/1/1/1
2	P8E	fK	602	-	-	0/11/28/32	0/1/1/1
2	P8E	KE	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	LF	601	-	-	0/11/28/32	0/1/1/1
2	P8E	OA	602	-	-	0/11/28/32	0/1/1/1
2	P8E	R4	602	-	-	0/11/28/32	0/1/1/1
2	P8E	JD	604	-	-	3/11/28/32	0/1/1/1
2	P8E	EX	603	-	-	0/11/28/32	0/1/1/1
2	P8E	OA	607	-	-	3/11/28/32	0/1/1/1
2	P8E	dC	602	-	-	0/11/28/32	0/1/1/1
2	P8E	BJ	607	-	-	3/11/28/32	0/1/1/1
2	P8E	LF	603	-	-	0/11/28/32	0/1/1/1
2	P8E	HL	602	-	-	0/11/28/32	0/1/1/1
2	P8E	KE	603	-	-	0/11/28/32	0/1/1/1
2	P8E	cV	601	-	-	0/11/28/32	0/1/1/1
2	P8E	bS	603	-	-	0/11/28/32	0/1/1/1
2	P8E	bS	602	-	-	0/11/28/32	0/1/1/1
2	P8E	fK	604	-	-	3/11/28/32	0/1/1/1
2	P8E	XM	603	-	-	0/11/28/32	0/1/1/1
2	P8E	bS	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	BJ	606	-	-	2/11/28/32	0/1/1/1
2	P8E	e8	603	-	-	0/11/28/32	0/1/1/1
2	P8E	EX	602	-	-	0/11/28/32	0/1/1/1
2	P8E	KE	607	-	-	3/11/28/32	0/1/1/1
2	P8E	BJ	603	-	-	0/11/28/32	0/1/1/1
2	P8E	OA	601	-	-	0/11/28/32	0/1/1/1
2	P8E	CT	603	-	-	0/11/28/32	0/1/1/1
2	P8E	JD	606	-	-	2/11/28/32	0/1/1/1
2	P8E	fK	607	-	-	3/11/28/32	0/1/1/1
2	P8E	e8	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	MO	601	-	-	0/11/28/32	0/1/1/1
2	P8E	cV	602	-	-	0/11/28/32	0/1/1/1
2	P8E	CT	605	-	1/1/7/7	1/11/28/32	0/1/1/1
2	P8E	R4	604	-	-	3/11/28/32	0/1/1/1
2	P8E	dC	607	-	-	3/11/28/32	0/1/1/1
2	P8E	NI	606	-	-	2/11/28/32	0/1/1/1
2	P8E	OA	603	-	-	0/11/28/32	0/1/1/1
2	P8E	A7	604	-	-	3/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	PU	603	-	-	0/11/28/32	0/1/1/1
2	P8E	Q2	603	-	-	0/11/28/32	0/1/1/1
2	P8E	e8	606	-	-	2/11/28/32	0/1/1/1
2	P8E	HL	604	-	-	3/11/28/32	0/1/1/1
2	P8E	Q2	602	-	-	0/11/28/32	0/1/1/1

All (231) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	bS	601	P8E	O6-C6	-2.51	1.40	1.44
2	PU	601	P8E	O6-C6	-2.51	1.40	1.44
2	e8	601	P8E	O6-C6	-2.51	1.40	1.44
2	GQ	601	P8E	O6-C6	-2.51	1.40	1.44
2	dC	601	P8E	O6-C6	-2.51	1.40	1.44
2	MO	601	P8E	O6-C6	-2.51	1.40	1.44
2	EX	601	P8E	O6-C6	-2.51	1.40	1.44
2	NI	601	P8E	O6-C6	-2.50	1.40	1.44
2	fK	601	P8E	O6-C6	-2.50	1.40	1.44
2	I3	601	P8E	O6-C6	-2.50	1.40	1.44
2	XM	601	P8E	O6-C6	-2.50	1.40	1.44
2	FB	601	P8E	O6-C6	-2.50	1.40	1.44
2	BJ	601	P8E	O6-C6	-2.50	1.40	1.44
2	g6	601	P8E	O6-C6	-2.50	1.40	1.44
2	A7	601	P8E	O6-C6	-2.50	1.40	1.44
2	WG	601	P8E	O6-C6	-2.50	1.40	1.44
2	UH	601	P8E	O6-C6	-2.50	1.40	1.44
2	VR	601	P8E	O6-C6	-2.50	1.40	1.44
2	Q2	601	P8E	O6-C6	-2.50	1.40	1.44
2	R4	601	P8E	O6-C6	-2.50	1.40	1.44
2	OA	601	P8E	O6-C6	-2.50	1.40	1.44
2	cV	601	P8E	O6-C6	-2.50	1.40	1.44
2	Y1	601	P8E	O6-C6	-2.50	1.40	1.44
2	S5	601	P8E	O6-C6	-2.50	1.40	1.44
2	KE	601	P8E	O6-C6	-2.50	1.40	1.44
2	HL	601	P8E	O6-C6	-2.50	1.40	1.44
2	LF	601	P8E	O6-C6	-2.50	1.40	1.44
2	DN	601	P8E	O6-C6	-2.50	1.40	1.44
2	aW	601	P8E	O6-C6	-2.50	1.40	1.44
2	Z9	601	P8E	O6-C6	-2.50	1.40	1.44
2	TP	601	P8E	O6-C6	-2.50	1.40	1.44
2	CT	601	P8E	O6-C6	-2.50	1.40	1.44
2	JD	601	P8E	O6-C6	-2.50	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	HL	604	P8E	O6-C6	-2.45	1.40	1.44
2	Y1	604	P8E	O6-C6	-2.45	1.40	1.44
2	UH	604	P8E	O6-C6	-2.45	1.40	1.44
2	VR	604	P8E	O6-C6	-2.45	1.40	1.44
2	bS	604	P8E	O6-C6	-2.45	1.40	1.44
2	XM	604	P8E	O6-C6	-2.45	1.40	1.44
2	OA	604	P8E	O6-C6	-2.45	1.40	1.44
2	BJ	604	P8E	O6-C6	-2.45	1.40	1.44
2	PU	604	P8E	O6-C6	-2.45	1.40	1.44
2	R4	604	P8E	O6-C6	-2.45	1.40	1.44
2	DN	604	P8E	O6-C6	-2.45	1.40	1.44
2	EX	604	P8E	O6-C6	-2.45	1.40	1.44
2	g6	604	P8E	O6-C6	-2.45	1.40	1.44
2	I3	604	P8E	O6-C6	-2.45	1.40	1.44
2	dC	604	P8E	O6-C6	-2.45	1.40	1.44
2	NI	604	P8E	O6-C6	-2.45	1.40	1.44
2	e8	604	P8E	O6-C6	-2.45	1.40	1.44
2	JD	604	P8E	O6-C6	-2.45	1.40	1.44
2	CT	604	P8E	O6-C6	-2.45	1.40	1.44
2	cV	604	P8E	O6-C6	-2.45	1.40	1.44
2	Z9	604	P8E	O6-C6	-2.44	1.40	1.44
2	KE	604	P8E	O6-C6	-2.44	1.40	1.44
2	Q2	604	P8E	O6-C6	-2.44	1.40	1.44
2	fK	604	P8E	O6-C6	-2.44	1.40	1.44
2	MO	604	P8E	O6-C6	-2.44	1.40	1.44
2	TP	604	P8E	O6-C6	-2.44	1.40	1.44
2	GQ	604	P8E	O6-C6	-2.44	1.40	1.44
2	S5	604	P8E	O6-C6	-2.44	1.40	1.44
2	A7	604	P8E	O6-C6	-2.44	1.40	1.44
2	LF	604	P8E	O6-C6	-2.44	1.40	1.44
2	WG	604	P8E	O6-C6	-2.44	1.40	1.44
2	FB	604	P8E	O6-C6	-2.44	1.40	1.44
2	aW	604	P8E	O6-C6	-2.44	1.40	1.44
2	KE	605	P8E	O6-C6	-2.36	1.40	1.44
2	Q2	605	P8E	O6-C6	-2.36	1.40	1.44
2	I3	605	P8E	O6-C6	-2.36	1.40	1.44
2	S5	605	P8E	O6-C6	-2.36	1.40	1.44
2	LF	605	P8E	O6-C6	-2.36	1.40	1.44
2	fK	605	P8E	O6-C6	-2.36	1.40	1.44
2	XM	605	P8E	O6-C6	-2.36	1.40	1.44
2	e8	605	P8E	O6-C6	-2.36	1.40	1.44
2	WG	605	P8E	O6-C6	-2.36	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	aW	605	P8E	O6-C6	-2.36	1.40	1.44
2	A7	605	P8E	O6-C6	-2.35	1.40	1.44
2	OA	605	P8E	O6-C6	-2.35	1.40	1.44
2	VR	605	P8E	O6-C6	-2.35	1.40	1.44
2	EX	605	P8E	O6-C6	-2.35	1.40	1.44
2	g6	605	P8E	O6-C6	-2.35	1.40	1.44
2	GQ	605	P8E	O6-C6	-2.35	1.40	1.44
2	Y1	605	P8E	O6-C6	-2.35	1.40	1.44
2	Z9	605	P8E	O6-C6	-2.35	1.40	1.44
2	CT	605	P8E	O6-C6	-2.35	1.40	1.44
2	cV	605	P8E	O6-C6	-2.35	1.40	1.44
2	NI	605	P8E	O6-C6	-2.35	1.40	1.44
2	HL	605	P8E	O6-C6	-2.35	1.40	1.44
2	TP	605	P8E	O6-C6	-2.35	1.40	1.44
2	R4	605	P8E	O6-C6	-2.35	1.40	1.44
2	UH	605	P8E	O6-C6	-2.35	1.40	1.44
2	bS	605	P8E	O6-C6	-2.35	1.40	1.44
2	DN	605	P8E	O6-C6	-2.35	1.40	1.44
2	JD	605	P8E	O6-C6	-2.35	1.40	1.44
2	FB	605	P8E	O6-C6	-2.35	1.40	1.44
2	PU	605	P8E	O6-C6	-2.35	1.40	1.44
2	dC	605	P8E	O6-C6	-2.35	1.40	1.44
2	BJ	605	P8E	O6-C6	-2.35	1.40	1.44
2	MO	605	P8E	O6-C6	-2.35	1.40	1.44
2	BJ	603	P8E	O6-C6	-2.29	1.40	1.44
2	TP	603	P8E	O6-C6	-2.29	1.40	1.44
2	e8	603	P8E	O6-C6	-2.29	1.40	1.44
2	g6	603	P8E	O6-C6	-2.29	1.40	1.44
2	LF	603	P8E	O6-C6	-2.29	1.40	1.44
2	CT	603	P8E	O6-C6	-2.29	1.40	1.44
2	JD	603	P8E	O6-C6	-2.29	1.40	1.44
2	HL	603	P8E	O6-C6	-2.29	1.40	1.44
2	MO	603	P8E	O6-C6	-2.29	1.40	1.44
2	S5	603	P8E	O6-C6	-2.29	1.40	1.44
2	A7	603	P8E	O6-C6	-2.29	1.40	1.44
2	dC	603	P8E	O6-C6	-2.29	1.40	1.44
2	DN	603	P8E	O6-C6	-2.29	1.40	1.44
2	EX	603	P8E	O6-C6	-2.29	1.40	1.44
2	Q2	603	P8E	O6-C6	-2.29	1.40	1.44
2	FB	603	P8E	O6-C6	-2.29	1.40	1.44
2	WG	603	P8E	O6-C6	-2.29	1.40	1.44
2	PU	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	Y1	603	P8E	O6-C6	-2.29	1.40	1.44
2	I3	603	P8E	O6-C6	-2.29	1.40	1.44
2	VR	603	P8E	O6-C6	-2.29	1.40	1.44
2	OA	603	P8E	O6-C6	-2.28	1.40	1.44
2	NI	603	P8E	O6-C6	-2.28	1.40	1.44
2	XM	603	P8E	O6-C6	-2.28	1.40	1.44
2	bS	603	P8E	O6-C6	-2.28	1.40	1.44
2	Z9	603	P8E	O6-C6	-2.28	1.40	1.44
2	KE	603	P8E	O6-C6	-2.28	1.40	1.44
2	GQ	603	P8E	O6-C6	-2.28	1.40	1.44
2	cV	603	P8E	O6-C6	-2.28	1.40	1.44
2	aW	603	P8E	O6-C6	-2.28	1.40	1.44
2	R4	603	P8E	O6-C6	-2.28	1.40	1.44
2	UH	603	P8E	O6-C6	-2.28	1.40	1.44
2	fK	603	P8E	O6-C6	-2.28	1.40	1.44
2	R4	602	P8E	O6-C6	-2.24	1.40	1.44
2	e8	602	P8E	O6-C6	-2.24	1.40	1.44
2	g6	602	P8E	O6-C6	-2.24	1.40	1.44
2	KE	602	P8E	O6-C6	-2.24	1.40	1.44
2	Y1	602	P8E	O6-C6	-2.24	1.40	1.44
2	OA	602	P8E	O6-C6	-2.24	1.40	1.44
2	VR	602	P8E	O6-C6	-2.24	1.40	1.44
2	Q2	602	P8E	O6-C6	-2.24	1.40	1.44
2	I3	602	P8E	O6-C6	-2.24	1.40	1.44
2	FB	602	P8E	O6-C6	-2.24	1.40	1.44
2	UH	602	P8E	O6-C6	-2.24	1.40	1.44
2	bS	602	P8E	O6-C6	-2.24	1.40	1.44
2	fK	602	P8E	O6-C6	-2.24	1.40	1.44
2	GQ	602	P8E	O6-C6	-2.24	1.40	1.44
2	cV	602	P8E	O6-C6	-2.24	1.40	1.44
2	HL	602	P8E	O6-C6	-2.24	1.40	1.44
2	PU	602	P8E	O6-C6	-2.24	1.40	1.44
2	A7	602	P8E	O6-C6	-2.24	1.40	1.44
2	TP	602	P8E	O6-C6	-2.24	1.40	1.44
2	CT	602	P8E	O6-C6	-2.24	1.40	1.44
2	JD	602	P8E	O6-C6	-2.24	1.40	1.44
2	LF	602	P8E	O6-C6	-2.24	1.40	1.44
2	NI	602	P8E	O6-C6	-2.24	1.40	1.44
2	MO	602	P8E	O6-C6	-2.24	1.40	1.44
2	EX	602	P8E	O6-C6	-2.24	1.40	1.44
2	DN	602	P8E	O6-C6	-2.24	1.40	1.44
2	S5	602	P8E	O6-C6	-2.24	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	aW	602	P8E	O6-C6	-2.24	1.40	1.44
2	WG	602	P8E	O6-C6	-2.24	1.40	1.44
2	dC	602	P8E	O6-C6	-2.24	1.40	1.44
2	BJ	602	P8E	O6-C6	-2.24	1.40	1.44
2	Z9	602	P8E	O6-C6	-2.24	1.40	1.44
2	XM	602	P8E	O6-C6	-2.24	1.40	1.44
2	UH	606	P8E	O6-C6	-2.17	1.40	1.44
2	DN	606	P8E	O6-C6	-2.17	1.40	1.44
2	R4	606	P8E	O6-C6	-2.17	1.40	1.44
2	WG	606	P8E	O6-C6	-2.17	1.40	1.44
2	MO	606	P8E	O6-C6	-2.17	1.40	1.44
2	A7	606	P8E	O6-C6	-2.17	1.40	1.44
2	Z9	606	P8E	O6-C6	-2.17	1.40	1.44
2	NI	606	P8E	O6-C6	-2.17	1.40	1.44
2	Q2	606	P8E	O6-C6	-2.17	1.40	1.44
2	HL	606	P8E	O6-C6	-2.17	1.40	1.44
2	PU	606	P8E	O6-C6	-2.17	1.40	1.44
2	cV	606	P8E	O6-C6	-2.17	1.40	1.44
2	bS	606	P8E	O6-C6	-2.17	1.40	1.44
2	aW	606	P8E	O6-C6	-2.17	1.40	1.44
2	KE	606	P8E	O6-C6	-2.17	1.40	1.44
2	Y1	606	P8E	O6-C6	-2.17	1.40	1.44
2	OA	606	P8E	O6-C6	-2.17	1.40	1.44
2	FB	606	P8E	O6-C6	-2.17	1.40	1.44
2	TP	606	P8E	O6-C6	-2.17	1.40	1.44
2	CT	606	P8E	O6-C6	-2.17	1.40	1.44
2	I3	606	P8E	O6-C6	-2.17	1.40	1.44
2	LF	606	P8E	O6-C6	-2.17	1.40	1.44
2	GQ	606	P8E	O6-C6	-2.17	1.40	1.44
2	g6	606	P8E	O6-C6	-2.17	1.40	1.44
2	fK	606	P8E	O6-C6	-2.17	1.40	1.44
2	VR	606	P8E	O6-C6	-2.17	1.40	1.44
2	JD	606	P8E	O6-C6	-2.16	1.40	1.44
2	BJ	606	P8E	O6-C6	-2.16	1.40	1.44
2	EX	606	P8E	O6-C6	-2.16	1.40	1.44
2	S5	606	P8E	O6-C6	-2.16	1.40	1.44
2	XM	606	P8E	O6-C6	-2.16	1.40	1.44
2	e8	606	P8E	O6-C6	-2.16	1.40	1.44
2	dC	606	P8E	O6-C6	-2.16	1.40	1.44
2	g6	607	P8E	O6-C6	-2.15	1.40	1.44
2	LF	607	P8E	O6-C6	-2.14	1.40	1.44
2	BJ	607	P8E	O6-C6	-2.14	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	R4	607	P8E	O6-C6	-2.14	1.40	1.44
2	HL	607	P8E	O6-C6	-2.14	1.40	1.44
2	CT	607	P8E	O6-C6	-2.14	1.40	1.44
2	EX	607	P8E	O6-C6	-2.14	1.40	1.44
2	A7	607	P8E	O6-C6	-2.14	1.40	1.44
2	bS	607	P8E	O6-C6	-2.14	1.40	1.44
2	S5	607	P8E	O6-C6	-2.14	1.40	1.44
2	GQ	607	P8E	O6-C6	-2.14	1.40	1.44
2	Y1	607	P8E	O6-C6	-2.14	1.40	1.44
2	NI	607	P8E	O6-C6	-2.14	1.40	1.44
2	XM	607	P8E	O6-C6	-2.14	1.40	1.44
2	WG	607	P8E	O6-C6	-2.14	1.40	1.44
2	TP	607	P8E	O6-C6	-2.14	1.40	1.44
2	VR	607	P8E	O6-C6	-2.14	1.40	1.44
2	I3	607	P8E	O6-C6	-2.14	1.40	1.44
2	FB	607	P8E	O6-C6	-2.14	1.40	1.44
2	KE	607	P8E	O6-C6	-2.14	1.40	1.44
2	PU	607	P8E	O6-C6	-2.14	1.40	1.44
2	Q2	607	P8E	O6-C6	-2.14	1.40	1.44
2	fK	607	P8E	O6-C6	-2.14	1.40	1.44
2	DN	607	P8E	O6-C6	-2.14	1.40	1.44
2	UH	607	P8E	O6-C6	-2.14	1.40	1.44
2	MO	607	P8E	O6-C6	-2.14	1.40	1.44
2	Z9	607	P8E	O6-C6	-2.14	1.40	1.44
2	e8	607	P8E	O6-C6	-2.14	1.40	1.44
2	OA	607	P8E	O6-C6	-2.14	1.40	1.44
2	aW	607	P8E	O6-C6	-2.14	1.40	1.44
2	dC	607	P8E	O6-C6	-2.14	1.40	1.44
2	cV	607	P8E	O6-C6	-2.14	1.40	1.44
2	JD	607	P8E	O6-C6	-2.13	1.40	1.44

All (594) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	JD	606	P8E	O6-C2-C1	7.75	122.36	107.72
2	DN	606	P8E	O6-C2-C1	7.75	122.36	107.72
2	EX	606	P8E	O6-C2-C1	7.75	122.36	107.72
2	Q2	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	VR	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	bS	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	FB	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	HL	606	P8E	O6-C2-C1	7.75	122.35	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	TP	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	KE	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	XM	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	PU	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	aW	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	UH	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	GQ	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	Y1	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	A7	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	Z9	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	NI	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	fK	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	S5	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	e8	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	dC	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	cV	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	WG	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	BJ	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	CT	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	I3	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	R4	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	LF	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	MO	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	OA	606	P8E	O6-C2-C1	7.75	122.35	107.72
2	g6	606	P8E	O6-C2-C1	7.75	122.34	107.72
2	Q2	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	S5	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	e8	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	bS	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	cV	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	WG	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	TP	601	P8E	O6-C2-C1	7.48	121.85	107.72
2	I3	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	OA	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	dC	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	PU	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	FB	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	KE	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	fK	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	DN	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	EX	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	g6	601	P8E	O6-C2-C1	7.48	121.84	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	JD	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	MO	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	R4	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	UH	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	NI	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	BJ	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	XM	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	GQ	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	Y1	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	A7	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	Z9	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	CT	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	aW	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	LF	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	HL	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	VR	601	P8E	O6-C2-C1	7.48	121.84	107.72
2	NI	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	DN	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	A7	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	BJ	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	EX	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	S5	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	CT	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	g6	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	KE	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	WG	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	fK	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	HL	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	bS	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	R4	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	Z9	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	JD	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	LF	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	MO	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	TP	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	I3	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	FB	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	UH	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	Y1	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	GQ	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	aW	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	Q2	607	P8E	O6-C2-C1	7.40	121.68	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	e8	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	XM	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	VR	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	PU	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	cV	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	OA	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	dC	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	TP	605	P8E	O6-C2-C1	7.39	121.67	107.72
2	cV	605	P8E	O6-C2-C1	7.39	121.67	107.72
2	I3	605	P8E	O6-C2-C1	7.39	121.67	107.72
2	S5	605	P8E	O6-C2-C1	7.39	121.67	107.72
2	JD	605	P8E	O6-C2-C1	7.39	121.67	107.72
2	Y1	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	fK	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	R4	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	WG	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	NI	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	GQ	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	CT	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	OA	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	dC	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	aW	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	g6	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	XM	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	DN	605	P8E	O6-C2-C1	7.39	121.66	107.72
2	A7	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	Z9	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	FB	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	LF	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	PU	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	EX	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	KE	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	HL	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	e8	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	UH	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	Q2	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	BJ	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	bS	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	VR	605	P8E	O6-C2-C1	7.38	121.66	107.72
2	MO	605	P8E	O6-C2-C1	7.38	121.65	107.72
2	Q2	602	P8E	O6-C2-C1	7.22	121.34	107.72
2	S5	602	P8E	O6-C2-C1	7.22	121.34	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	g6	602	P8E	O6-C2-C1	7.22	121.34	107.72
2	FB	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	HL	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	DN	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	Y1	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	e8	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	WG	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	XM	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	aW	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	I3	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	R4	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	A7	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	BJ	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	MO	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	VR	602	P8E	O6-C2-C1	7.21	121.34	107.72
2	OA	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	dC	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	LF	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	cV	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	Z9	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	JD	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	UH	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	bS	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	PU	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	KE	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	fK	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	CT	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	TP	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	GQ	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	EX	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	NI	602	P8E	O6-C2-C1	7.21	121.33	107.72
2	Y1	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	LF	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	HL	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	Q2	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	S5	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	KE	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	VR	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	e8	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	OA	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	WG	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	BJ	603	P8E	O6-C2-C1	7.16	121.24	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	XM	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	TP	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	bS	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	PU	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	Z9	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	FB	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	EX	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	A7	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	NI	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	DN	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	MO	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	CT	603	P8E	O6-C2-C1	7.16	121.24	107.72
2	R4	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	JD	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	GQ	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	cV	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	aW	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	I3	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	g6	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	UH	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	fK	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	dC	603	P8E	O6-C2-C1	7.16	121.23	107.72
2	bS	604	P8E	O6-C2-C1	6.66	120.28	107.72
2	Y1	604	P8E	O6-C2-C1	6.66	120.28	107.72
2	I3	604	P8E	O6-C2-C1	6.66	120.28	107.72
2	UH	604	P8E	O6-C2-C1	6.66	120.28	107.72
2	A7	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	TP	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	cV	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	EX	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	R4	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	NI	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	KE	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	LF	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	fK	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	VR	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	PU	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	JD	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	DN	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	Q2	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	S5	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	Z9	604	P8E	O6-C2-C1	6.65	120.28	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	WG	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	XM	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	GQ	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	g6	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	FB	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	dC	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	MO	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	CT	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	aW	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	OA	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	BJ	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	HL	604	P8E	O6-C2-C1	6.65	120.28	107.72
2	e8	604	P8E	O6-C2-C1	6.65	120.27	107.72
2	WG	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	I3	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	A7	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	LF	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	TP	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	Y1	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	S5	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	DN	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	GQ	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	Z9	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	bS	604	P8E	O1B-C1-C2	2.89	120.23	112.71
2	Q2	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	R4	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	UH	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	NI	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	VR	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	fK	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	CT	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	cV	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	aW	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	EX	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	OA	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	FB	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	dC	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	XM	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	g6	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	JD	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	KE	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	e8	604	P8E	O1B-C1-C2	2.89	120.22	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PU	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	HL	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	BJ	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	MO	604	P8E	O1B-C1-C2	2.89	120.22	112.71
2	WG	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	BJ	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	bS	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	A7	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	NI	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	MO	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	g6	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	KE	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	VR	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	I3	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	e8	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	fK	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	GQ	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	HL	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	DN	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	Q2	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	JD	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	TP	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	aW	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	Y1	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	R4	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	FB	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	XM	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	CT	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	cV	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	EX	605	P8E	O1B-C1-C2	2.84	120.09	112.71
2	Z9	605	P8E	O1B-C1-C2	2.84	120.08	112.71
2	dC	605	P8E	O1B-C1-C2	2.84	120.08	112.71
2	UH	605	P8E	O1B-C1-C2	2.84	120.08	112.71
2	PU	605	P8E	O1B-C1-C2	2.84	120.08	112.71
2	OA	605	P8E	O1B-C1-C2	2.83	120.08	112.71
2	LF	605	P8E	O1B-C1-C2	2.83	120.08	112.71
2	S5	605	P8E	O1B-C1-C2	2.83	120.08	112.71
2	LF	602	P8E	O1B-C1-C2	2.82	120.04	112.71
2	Q2	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	S5	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	HL	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	VR	602	P8E	O1B-C1-C2	2.82	120.03	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	DN	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	TP	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	I3	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	Z9	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	FB	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	BJ	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	XM	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	R4	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	A7	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	OA	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	dC	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	fK	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	MO	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	bS	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	g6	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	WG	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	CT	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	KE	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	UH	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	GQ	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	e8	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	aW	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	PU	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	cV	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	Y1	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	JD	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	NI	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	EX	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	VR	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	FB	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	DN	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	GQ	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	HL	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	I3	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	g6	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Y1	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Q2	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	A7	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	e8	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	dC	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	KE	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	KE	607	P8E	O1B-C1-C2	2.80	119.99	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	LF	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	NI	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	PU	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Z9	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	FB	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	UH	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	UH	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	BJ	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	TP	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	GQ	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	bS	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	CT	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	CT	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	cV	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	aW	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	EX	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	EX	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	EX	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	S5	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	S5	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	g6	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	A7	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Z9	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	dC	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	JD	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	WG	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	NI	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	fK	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	XM	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	DN	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	bS	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	CT	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	cV	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	aW	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	I3	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	A7	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	e8	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	e8	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	OA	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	OA	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	FB	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	JD	603	P8E	O1B-C1-C2	2.80	119.99	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	JD	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	WG	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	UH	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	MO	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	MO	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	VR	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	PU	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	PU	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	cV	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	aW	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Y1	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	I3	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	R4	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Z9	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	dC	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	fK	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	fK	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	DN	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	TP	603	P8E	O1B-C1-C2	2.80	119.99	112.71
2	VR	607	P8E	O1B-C1-C2	2.80	119.99	112.71
2	Q2	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	R4	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	NI	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	XM	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	R4	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	KE	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	LF	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	WG	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	BJ	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	BJ	606	P8E	O1B-C1-C2	2.80	119.98	112.71
2	XM	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	TP	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	Q2	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	S5	606	P8E	O1B-C1-C2	2.80	119.98	112.71
2	OA	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	HL	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	HL	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	MO	606	P8E	O1B-C1-C2	2.80	119.98	112.71
2	Y1	603	P8E	O1B-C1-C2	2.80	119.98	112.71
2	LF	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	GQ	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	bS	603	P8E	O1B-C1-C2	2.80	119.98	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	g6	607	P8E	O1B-C1-C2	2.80	119.98	112.71
2	Z9	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	MO	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	UH	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	NI	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	fK	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	R4	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	VR	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	A7	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	FB	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	KE	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	PU	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	aW	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	Q2	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	S5	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	JD	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	LF	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	HL	601	P8E	O1B-C1-C2	2.79	119.97	112.71
2	e8	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	XM	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	DN	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	bS	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	EX	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	Y1	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	WG	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	CT	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	g6	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	BJ	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	I3	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	dC	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	GQ	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	cV	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	OA	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	TP	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	HL	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	Y1	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	GQ	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	CT	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	TP	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	KE	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	LF	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	UH	601	P8E	O6-C2-C3	2.46	113.86	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	VR	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	PU	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	R4	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	A7	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	OA	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	dC	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	JD	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	NI	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	EX	601	P8E	O6-C2-C3	2.46	113.86	110.56
2	S5	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	XM	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	MO	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	bS	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	Z9	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	BJ	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	fK	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	cV	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	aW	601	P8E	O6-C2-C3	2.45	113.86	110.56
2	g6	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	WG	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	Q2	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	I3	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	FB	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	DN	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	e8	601	P8E	O6-C2-C3	2.45	113.85	110.56
2	dC	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	R4	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	fK	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	JD	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	UH	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	FB	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	WG	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	XM	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	MO	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	S5	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	A7	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	OA	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	NI	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	TP	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	GQ	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	bS	603	P8E	O6-C2-C3	2.37	113.74	110.56
2	CT	603	P8E	O6-C2-C3	2.37	113.74	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	I3	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	e8	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	LF	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	aW	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	g6	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	BJ	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	DN	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	VR	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	Q2	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	Z9	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	HL	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	KE	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	PU	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	cV	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	EX	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	Y1	603	P8E	O6-C2-C3	2.36	113.73	110.56
2	GQ	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	WG	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	DN	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	EX	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	Y1	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	R4	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	S5	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	g6	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	OA	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	FB	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	LF	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	UH	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	NI	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	fK	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	HL	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	bS	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	Q2	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	e8	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	Z9	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	KE	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	PU	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	cV	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	I3	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	XM	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	dC	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	JD	604	P8E	C9-C8-C7	-2.19	109.20	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	TP	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	VR	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	CT	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	A7	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	BJ	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	MO	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	aW	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	aW	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	KE	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	XM	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	bS	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	A7	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	UH	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	Y1	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	Q2	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	g6	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	fK	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	PU	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	R4	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	e8	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	dC	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	HL	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	MO	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	VR	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	I3	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	OA	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	FB	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	JD	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	LF	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	WG	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	NI	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	GQ	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	cV	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	Z9	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	DN	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	CT	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	S5	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	BJ	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	TP	607	P8E	C9-C8-C7	-2.14	109.28	112.66
2	EX	607	P8E	C9-C8-C7	-2.14	109.28	112.66

All (33) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	Y1	605	P8E	C2
2	Q2	605	P8E	C2
2	I3	605	P8E	C2
2	R4	605	P8E	C2
2	S5	605	P8E	C2
2	g6	605	P8E	C2
2	A7	605	P8E	C2
2	e8	605	P8E	C2
2	Z9	605	P8E	C2
2	OA	605	P8E	C2
2	FB	605	P8E	C2
2	dC	605	P8E	C2
2	JD	605	P8E	C2
2	KE	605	P8E	C2
2	LF	605	P8E	C2
2	WG	605	P8E	C2
2	UH	605	P8E	C2
2	NI	605	P8E	C2
2	BJ	605	P8E	C2
2	fK	605	P8E	C2
2	HL	605	P8E	C2
2	XM	605	P8E	C2
2	DN	605	P8E	C2
2	MO	605	P8E	C2
2	TP	605	P8E	C2
2	GQ	605	P8E	C2
2	VR	605	P8E	C2
2	bS	605	P8E	C2
2	CT	605	P8E	C2
2	PU	605	P8E	C2
2	cV	605	P8E	C2
2	aW	605	P8E	C2
2	EX	605	P8E	C2

All (297) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	Y1	604	P8E	O1A-C1-C2-C3
2	Y1	604	P8E	O1B-C1-C2-C3
2	Y1	606	P8E	N7-C7-C8-C9
2	Q2	604	P8E	O1A-C1-C2-C3
2	Q2	604	P8E	O1B-C1-C2-C3
2	Q2	606	P8E	N7-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
2	I3	604	P8E	O1A-C1-C2-C3
2	I3	604	P8E	O1B-C1-C2-C3
2	I3	606	P8E	N7-C7-C8-C9
2	R4	604	P8E	O1A-C1-C2-C3
2	R4	604	P8E	O1B-C1-C2-C3
2	R4	606	P8E	N7-C7-C8-C9
2	S5	604	P8E	O1A-C1-C2-C3
2	S5	604	P8E	O1B-C1-C2-C3
2	S5	606	P8E	N7-C7-C8-C9
2	g6	604	P8E	O1A-C1-C2-C3
2	g6	604	P8E	O1B-C1-C2-C3
2	g6	606	P8E	N7-C7-C8-C9
2	A7	604	P8E	O1A-C1-C2-C3
2	A7	604	P8E	O1B-C1-C2-C3
2	A7	606	P8E	N7-C7-C8-C9
2	e8	604	P8E	O1A-C1-C2-C3
2	e8	604	P8E	O1B-C1-C2-C3
2	e8	606	P8E	N7-C7-C8-C9
2	Z9	604	P8E	O1A-C1-C2-C3
2	Z9	604	P8E	O1B-C1-C2-C3
2	Z9	606	P8E	N7-C7-C8-C9
2	OA	604	P8E	O1A-C1-C2-C3
2	OA	604	P8E	O1B-C1-C2-C3
2	OA	606	P8E	N7-C7-C8-C9
2	FB	604	P8E	O1A-C1-C2-C3
2	FB	604	P8E	O1B-C1-C2-C3
2	FB	606	P8E	N7-C7-C8-C9
2	dC	604	P8E	O1A-C1-C2-C3
2	dC	604	P8E	O1B-C1-C2-C3
2	dC	606	P8E	N7-C7-C8-C9
2	JD	604	P8E	O1A-C1-C2-C3
2	JD	604	P8E	O1B-C1-C2-C3
2	JD	606	P8E	N7-C7-C8-C9
2	KE	604	P8E	O1A-C1-C2-C3
2	KE	604	P8E	O1B-C1-C2-C3
2	KE	606	P8E	N7-C7-C8-C9
2	LF	604	P8E	O1A-C1-C2-C3
2	LF	604	P8E	O1B-C1-C2-C3
2	LF	606	P8E	N7-C7-C8-C9
2	WG	604	P8E	O1A-C1-C2-C3
2	WG	604	P8E	O1B-C1-C2-C3
2	WG	606	P8E	N7-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
2	UH	604	P8E	O1A-C1-C2-C3
2	UH	604	P8E	O1B-C1-C2-C3
2	UH	606	P8E	N7-C7-C8-C9
2	NI	604	P8E	O1A-C1-C2-C3
2	NI	604	P8E	O1B-C1-C2-C3
2	NI	606	P8E	N7-C7-C8-C9
2	BJ	604	P8E	O1A-C1-C2-C3
2	BJ	604	P8E	O1B-C1-C2-C3
2	BJ	606	P8E	N7-C7-C8-C9
2	fK	604	P8E	O1A-C1-C2-C3
2	fK	604	P8E	O1B-C1-C2-C3
2	fK	606	P8E	N7-C7-C8-C9
2	HL	604	P8E	O1A-C1-C2-C3
2	HL	604	P8E	O1B-C1-C2-C3
2	HL	606	P8E	N7-C7-C8-C9
2	XM	604	P8E	O1A-C1-C2-C3
2	XM	604	P8E	O1B-C1-C2-C3
2	XM	606	P8E	N7-C7-C8-C9
2	DN	604	P8E	O1A-C1-C2-C3
2	DN	604	P8E	O1B-C1-C2-C3
2	DN	606	P8E	N7-C7-C8-C9
2	MO	604	P8E	O1A-C1-C2-C3
2	MO	604	P8E	O1B-C1-C2-C3
2	MO	606	P8E	N7-C7-C8-C9
2	TP	604	P8E	O1A-C1-C2-C3
2	TP	604	P8E	O1B-C1-C2-C3
2	TP	606	P8E	N7-C7-C8-C9
2	GQ	604	P8E	O1A-C1-C2-C3
2	GQ	604	P8E	O1B-C1-C2-C3
2	GQ	606	P8E	N7-C7-C8-C9
2	VR	604	P8E	O1A-C1-C2-C3
2	VR	604	P8E	O1B-C1-C2-C3
2	VR	606	P8E	N7-C7-C8-C9
2	bS	604	P8E	O1A-C1-C2-C3
2	bS	604	P8E	O1B-C1-C2-C3
2	bS	606	P8E	N7-C7-C8-C9
2	CT	604	P8E	O1A-C1-C2-C3
2	CT	604	P8E	O1B-C1-C2-C3
2	CT	606	P8E	N7-C7-C8-C9
2	PU	604	P8E	O1A-C1-C2-C3
2	PU	604	P8E	O1B-C1-C2-C3
2	PU	606	P8E	N7-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
2	cV	604	P8E	O1A-C1-C2-C3
2	cV	604	P8E	O1B-C1-C2-C3
2	cV	606	P8E	N7-C7-C8-C9
2	aW	604	P8E	O1A-C1-C2-C3
2	aW	604	P8E	O1B-C1-C2-C3
2	aW	606	P8E	N7-C7-C8-C9
2	EX	604	P8E	O1A-C1-C2-C3
2	EX	604	P8E	O1B-C1-C2-C3
2	EX	606	P8E	N7-C7-C8-C9
2	Y1	607	P8E	O6-C6-C7-C8
2	Q2	607	P8E	O6-C6-C7-C8
2	I3	607	P8E	O6-C6-C7-C8
2	R4	607	P8E	O6-C6-C7-C8
2	S5	607	P8E	O6-C6-C7-C8
2	g6	607	P8E	O6-C6-C7-C8
2	A7	607	P8E	O6-C6-C7-C8
2	e8	607	P8E	O6-C6-C7-C8
2	Z9	607	P8E	O6-C6-C7-C8
2	OA	607	P8E	O6-C6-C7-C8
2	FB	607	P8E	O6-C6-C7-C8
2	dC	607	P8E	O6-C6-C7-C8
2	JD	607	P8E	O6-C6-C7-C8
2	KE	607	P8E	O6-C6-C7-C8
2	LF	607	P8E	O6-C6-C7-C8
2	WG	607	P8E	O6-C6-C7-C8
2	UH	607	P8E	O6-C6-C7-C8
2	NI	607	P8E	O6-C6-C7-C8
2	BJ	607	P8E	O6-C6-C7-C8
2	fK	607	P8E	O6-C6-C7-C8
2	HL	607	P8E	O6-C6-C7-C8
2	XM	607	P8E	O6-C6-C7-C8
2	DN	607	P8E	O6-C6-C7-C8
2	MO	607	P8E	O6-C6-C7-C8
2	TP	607	P8E	O6-C6-C7-C8
2	GQ	607	P8E	O6-C6-C7-C8
2	VR	607	P8E	O6-C6-C7-C8
2	bS	607	P8E	O6-C6-C7-C8
2	CT	607	P8E	O6-C6-C7-C8
2	PU	607	P8E	O6-C6-C7-C8
2	cV	607	P8E	O6-C6-C7-C8
2	aW	607	P8E	O6-C6-C7-C8
2	EX	607	P8E	O6-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	Y1	604	P8E	O1A-C1-C2-O6
2	Y1	605	P8E	O1A-C1-C2-O6
2	Q2	604	P8E	O1A-C1-C2-O6
2	Q2	605	P8E	O1A-C1-C2-O6
2	I3	604	P8E	O1A-C1-C2-O6
2	I3	605	P8E	O1A-C1-C2-O6
2	R4	604	P8E	O1A-C1-C2-O6
2	R4	605	P8E	O1A-C1-C2-O6
2	S5	604	P8E	O1A-C1-C2-O6
2	S5	605	P8E	O1A-C1-C2-O6
2	g6	604	P8E	O1A-C1-C2-O6
2	g6	605	P8E	O1A-C1-C2-O6
2	A7	604	P8E	O1A-C1-C2-O6
2	A7	605	P8E	O1A-C1-C2-O6
2	e8	604	P8E	O1A-C1-C2-O6
2	e8	605	P8E	O1A-C1-C2-O6
2	Z9	604	P8E	O1A-C1-C2-O6
2	Z9	605	P8E	O1A-C1-C2-O6
2	OA	604	P8E	O1A-C1-C2-O6
2	OA	605	P8E	O1A-C1-C2-O6
2	FB	604	P8E	O1A-C1-C2-O6
2	FB	605	P8E	O1A-C1-C2-O6
2	dC	604	P8E	O1A-C1-C2-O6
2	dC	605	P8E	O1A-C1-C2-O6
2	JD	604	P8E	O1A-C1-C2-O6
2	JD	605	P8E	O1A-C1-C2-O6
2	KE	604	P8E	O1A-C1-C2-O6
2	KE	605	P8E	O1A-C1-C2-O6
2	LF	604	P8E	O1A-C1-C2-O6
2	LF	605	P8E	O1A-C1-C2-O6
2	WG	604	P8E	O1A-C1-C2-O6
2	WG	605	P8E	O1A-C1-C2-O6
2	UH	604	P8E	O1A-C1-C2-O6
2	UH	605	P8E	O1A-C1-C2-O6
2	NI	604	P8E	O1A-C1-C2-O6
2	NI	605	P8E	O1A-C1-C2-O6
2	BJ	604	P8E	O1A-C1-C2-O6
2	BJ	605	P8E	O1A-C1-C2-O6
2	fK	604	P8E	O1A-C1-C2-O6
2	fK	605	P8E	O1A-C1-C2-O6
2	HL	604	P8E	O1A-C1-C2-O6
2	HL	605	P8E	O1A-C1-C2-O6

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Mol	Chain	Res	Type	Atoms
2	XM	604	P8E	O1A-C1-C2-O6
2	XM	605	P8E	O1A-C1-C2-O6
2	DN	604	P8E	O1A-C1-C2-O6
2	DN	605	P8E	O1A-C1-C2-O6
2	MO	604	P8E	O1A-C1-C2-O6
2	MO	605	P8E	O1A-C1-C2-O6
2	TP	604	P8E	O1A-C1-C2-O6
2	TP	605	P8E	O1A-C1-C2-O6
2	GQ	604	P8E	O1A-C1-C2-O6
2	GQ	605	P8E	O1A-C1-C2-O6
2	VR	604	P8E	O1A-C1-C2-O6
2	VR	605	P8E	O1A-C1-C2-O6
2	bS	604	P8E	O1A-C1-C2-O6
2	bS	605	P8E	O1A-C1-C2-O6
2	CT	604	P8E	O1A-C1-C2-O6
2	CT	605	P8E	O1A-C1-C2-O6
2	PU	604	P8E	O1A-C1-C2-O6
2	PU	605	P8E	O1A-C1-C2-O6
2	cV	604	P8E	O1A-C1-C2-O6
2	cV	605	P8E	O1A-C1-C2-O6
2	aW	604	P8E	O1A-C1-C2-O6
2	aW	605	P8E	O1A-C1-C2-O6
2	EX	604	P8E	O1A-C1-C2-O6
2	EX	605	P8E	O1A-C1-C2-O6
2	Y1	607	P8E	C5-C6-C7-C8
2	Q2	607	P8E	C5-C6-C7-C8
2	I3	607	P8E	C5-C6-C7-C8
2	R4	607	P8E	C5-C6-C7-C8
2	S5	607	P8E	C5-C6-C7-C8
2	g6	607	P8E	C5-C6-C7-C8
2	A7	607	P8E	C5-C6-C7-C8
2	e8	607	P8E	C5-C6-C7-C8
2	Z9	607	P8E	C5-C6-C7-C8
2	OA	607	P8E	C5-C6-C7-C8
2	FB	607	P8E	C5-C6-C7-C8
2	dC	607	P8E	C5-C6-C7-C8
2	JD	607	P8E	C5-C6-C7-C8
2	KE	607	P8E	C5-C6-C7-C8
2	LF	607	P8E	C5-C6-C7-C8
2	WG	607	P8E	C5-C6-C7-C8
2	UH	607	P8E	C5-C6-C7-C8
2	NI	607	P8E	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	BJ	607	P8E	C5-C6-C7-C8
2	fK	607	P8E	C5-C6-C7-C8
2	HL	607	P8E	C5-C6-C7-C8
2	XM	607	P8E	C5-C6-C7-C8
2	DN	607	P8E	C5-C6-C7-C8
2	MO	607	P8E	C5-C6-C7-C8
2	TP	607	P8E	C5-C6-C7-C8
2	GQ	607	P8E	C5-C6-C7-C8
2	VR	607	P8E	C5-C6-C7-C8
2	bS	607	P8E	C5-C6-C7-C8
2	CT	607	P8E	C5-C6-C7-C8
2	PU	607	P8E	C5-C6-C7-C8
2	cV	607	P8E	C5-C6-C7-C8
2	aW	607	P8E	C5-C6-C7-C8
2	EX	607	P8E	C5-C6-C7-C8
2	Y1	606	P8E	C6-C7-C8-O8
2	Q2	606	P8E	C6-C7-C8-O8
2	I3	606	P8E	C6-C7-C8-O8
2	R4	606	P8E	C6-C7-C8-O8
2	S5	606	P8E	C6-C7-C8-O8
2	g6	606	P8E	C6-C7-C8-O8
2	A7	606	P8E	C6-C7-C8-O8
2	e8	606	P8E	C6-C7-C8-O8
2	Z9	606	P8E	C6-C7-C8-O8
2	OA	606	P8E	C6-C7-C8-O8
2	FB	606	P8E	C6-C7-C8-O8
2	dC	606	P8E	C6-C7-C8-O8
2	JD	606	P8E	C6-C7-C8-O8
2	KE	606	P8E	C6-C7-C8-O8
2	LF	606	P8E	C6-C7-C8-O8
2	WG	606	P8E	C6-C7-C8-O8
2	UH	606	P8E	C6-C7-C8-O8
2	NI	606	P8E	C6-C7-C8-O8
2	BJ	606	P8E	C6-C7-C8-O8
2	fK	606	P8E	C6-C7-C8-O8
2	HL	606	P8E	C6-C7-C8-O8
2	XM	606	P8E	C6-C7-C8-O8
2	DN	606	P8E	C6-C7-C8-O8
2	MO	606	P8E	C6-C7-C8-O8
2	TP	606	P8E	C6-C7-C8-O8
2	GQ	606	P8E	C6-C7-C8-O8
2	VR	606	P8E	C6-C7-C8-O8

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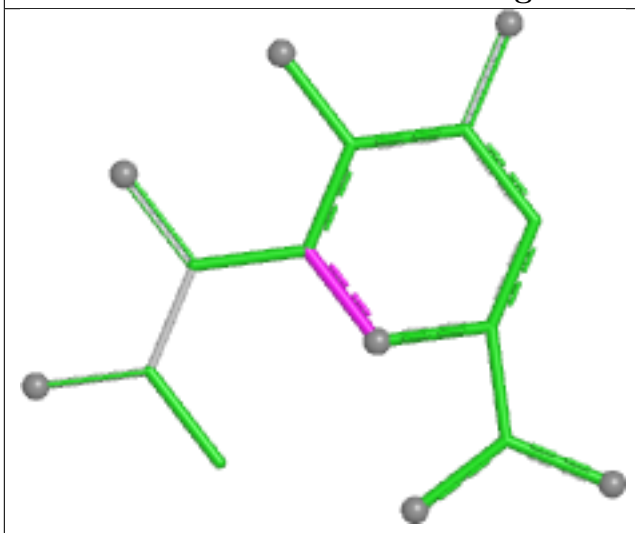
Mol	Chain	Res	Type	Atoms
2	bS	606	P8E	C6-C7-C8-O8
2	CT	606	P8E	C6-C7-C8-O8
2	PU	606	P8E	C6-C7-C8-O8
2	cV	606	P8E	C6-C7-C8-O8
2	aW	606	P8E	C6-C7-C8-O8
2	EX	606	P8E	C6-C7-C8-O8
2	Y1	607	P8E	O6-C6-C7-N7
2	Q2	607	P8E	O6-C6-C7-N7
2	I3	607	P8E	O6-C6-C7-N7
2	R4	607	P8E	O6-C6-C7-N7
2	S5	607	P8E	O6-C6-C7-N7
2	g6	607	P8E	O6-C6-C7-N7
2	A7	607	P8E	O6-C6-C7-N7
2	e8	607	P8E	O6-C6-C7-N7
2	Z9	607	P8E	O6-C6-C7-N7
2	OA	607	P8E	O6-C6-C7-N7
2	FB	607	P8E	O6-C6-C7-N7
2	dC	607	P8E	O6-C6-C7-N7
2	JD	607	P8E	O6-C6-C7-N7
2	KE	607	P8E	O6-C6-C7-N7
2	LF	607	P8E	O6-C6-C7-N7
2	WG	607	P8E	O6-C6-C7-N7
2	UH	607	P8E	O6-C6-C7-N7
2	NI	607	P8E	O6-C6-C7-N7
2	BJ	607	P8E	O6-C6-C7-N7
2	fK	607	P8E	O6-C6-C7-N7
2	HL	607	P8E	O6-C6-C7-N7
2	XM	607	P8E	O6-C6-C7-N7
2	DN	607	P8E	O6-C6-C7-N7
2	MO	607	P8E	O6-C6-C7-N7
2	TP	607	P8E	O6-C6-C7-N7
2	GQ	607	P8E	O6-C6-C7-N7
2	VR	607	P8E	O6-C6-C7-N7
2	bS	607	P8E	O6-C6-C7-N7
2	CT	607	P8E	O6-C6-C7-N7
2	PU	607	P8E	O6-C6-C7-N7
2	cV	607	P8E	O6-C6-C7-N7
2	aW	607	P8E	O6-C6-C7-N7
2	EX	607	P8E	O6-C6-C7-N7

There are no ring outliers.

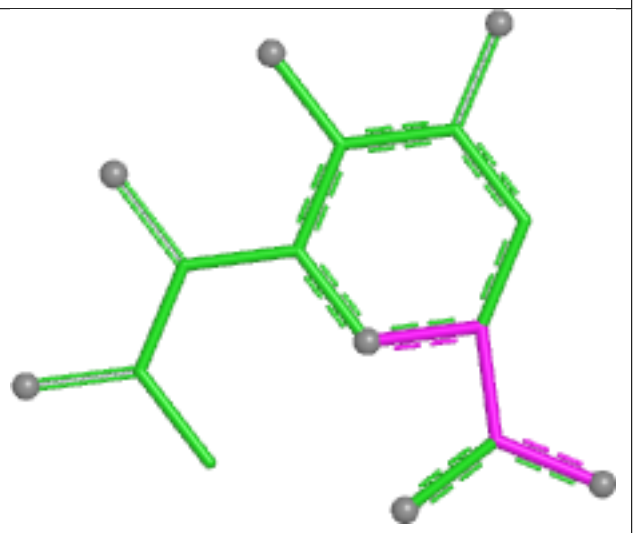
No monomer is involved in short contacts.

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.

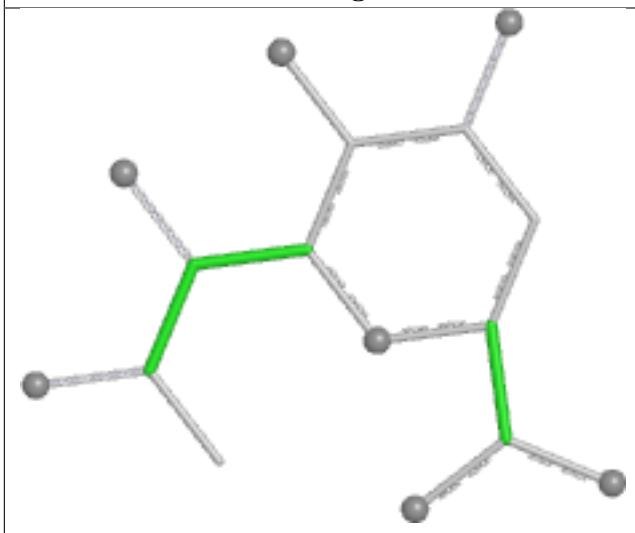
Ligand P8E UH 602



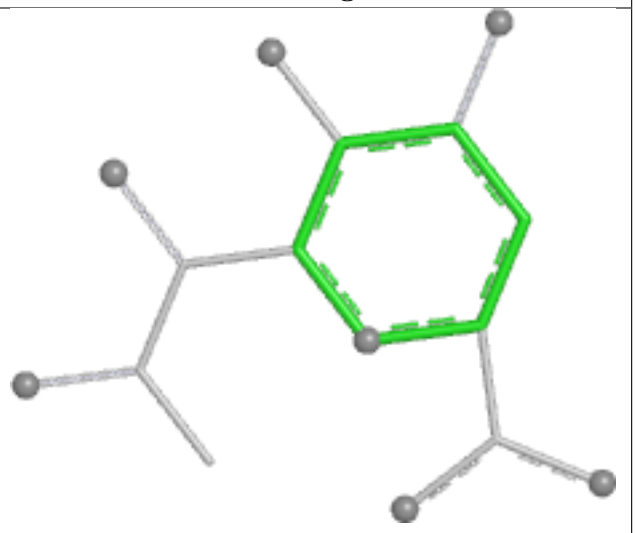
Bond lengths



Bond angles

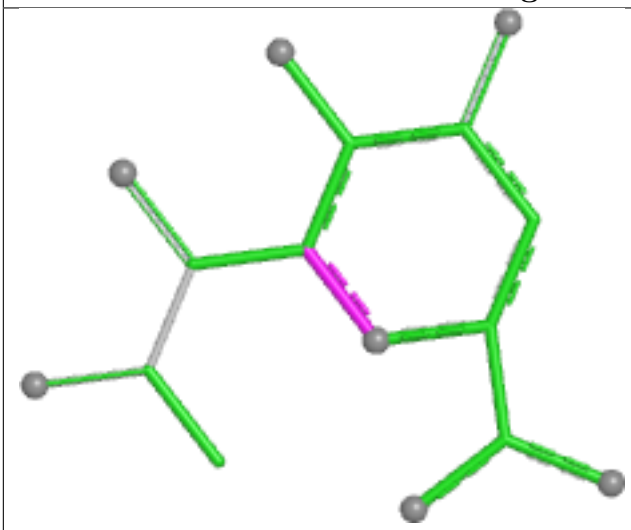


Torsions

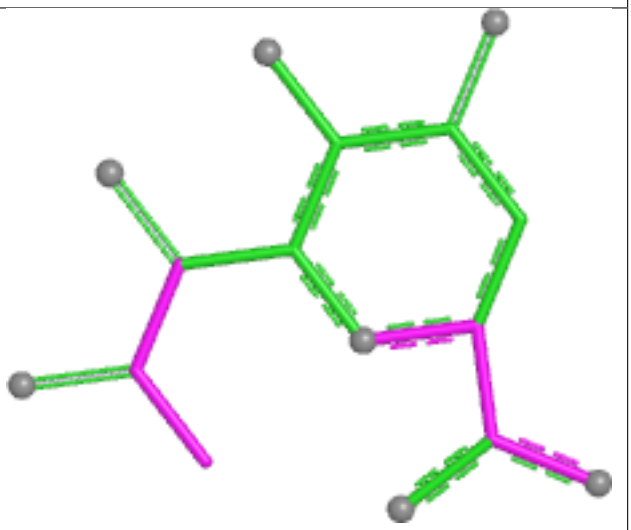


Rings

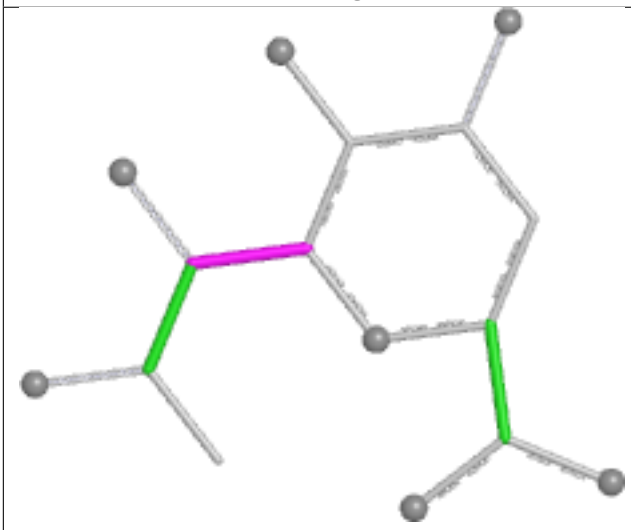
Ligand P8E NI 607



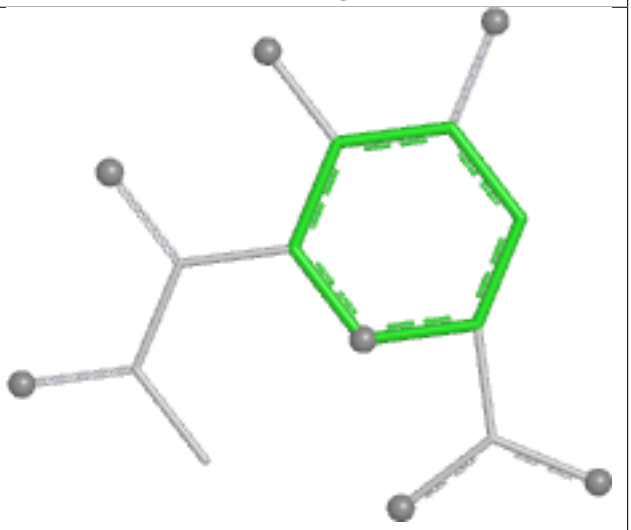
Bond lengths



Bond angles

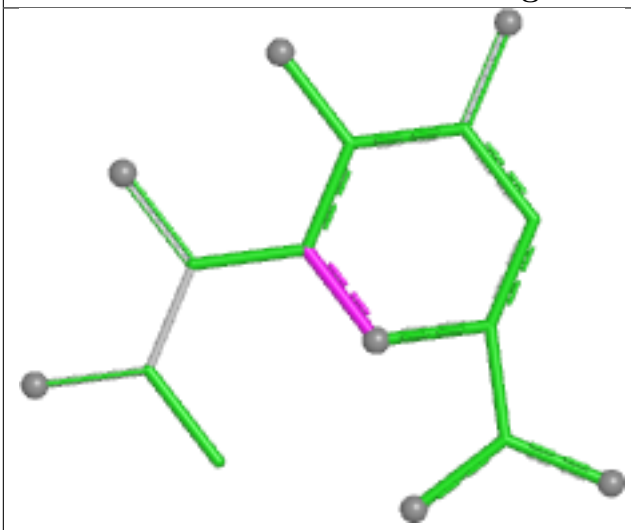


Torsions

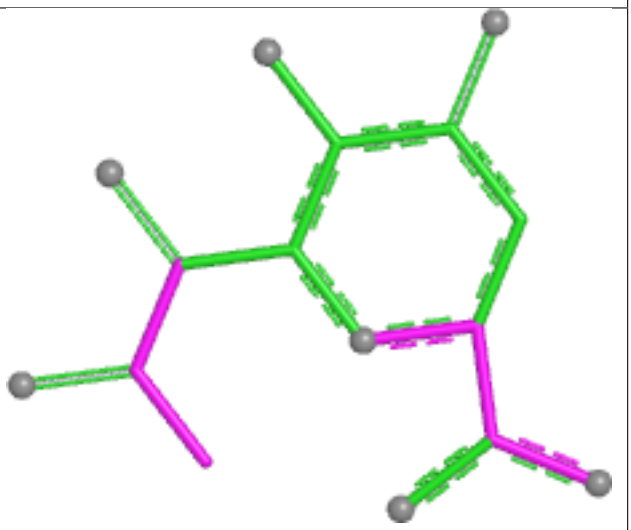


Rings

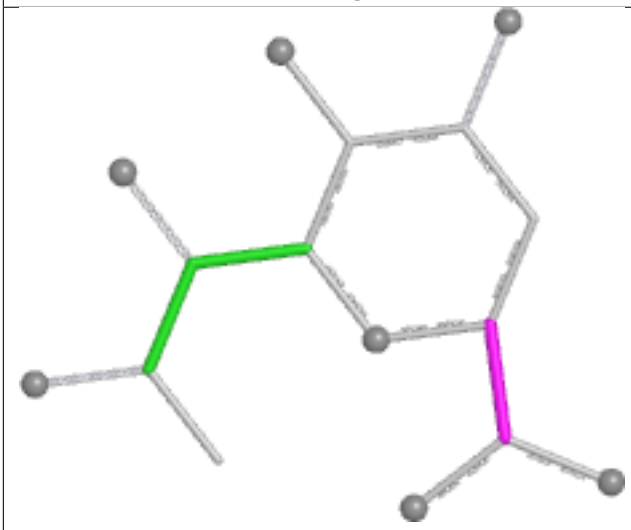
Ligand P8E bS 604



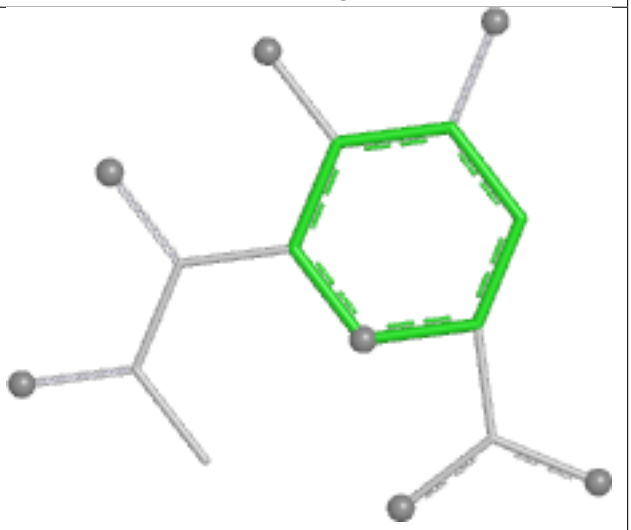
Bond lengths



Bond angles

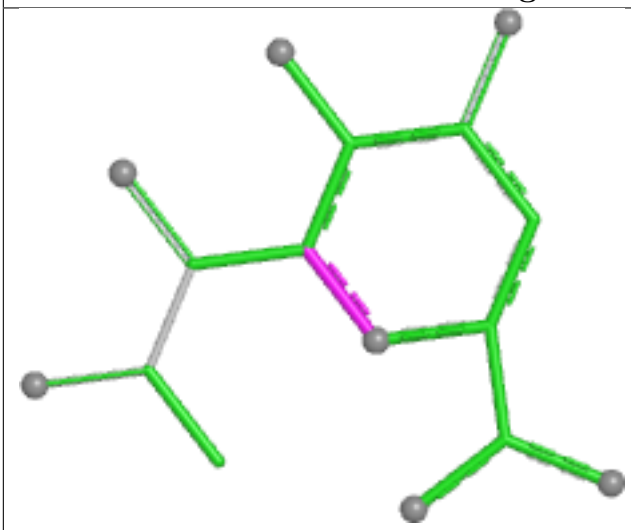


Torsions

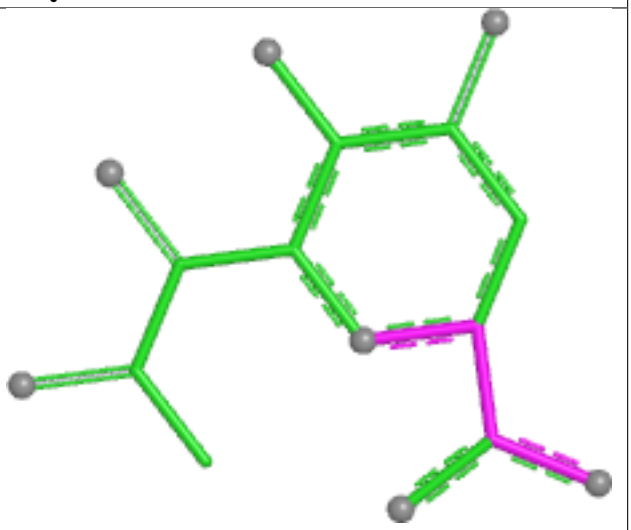


Rings

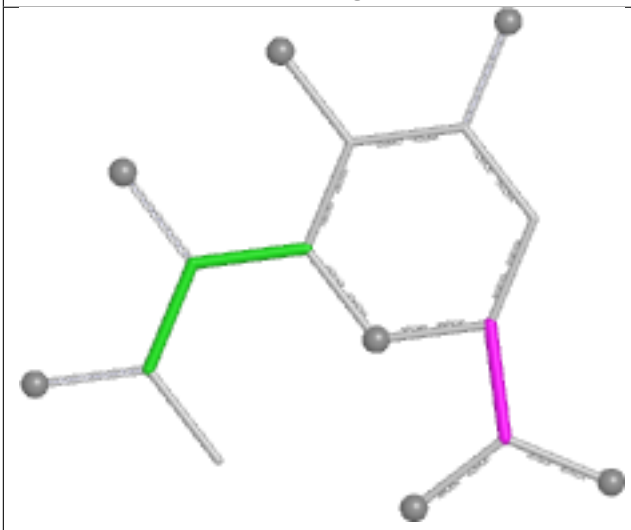
Ligand P8E Q2 605



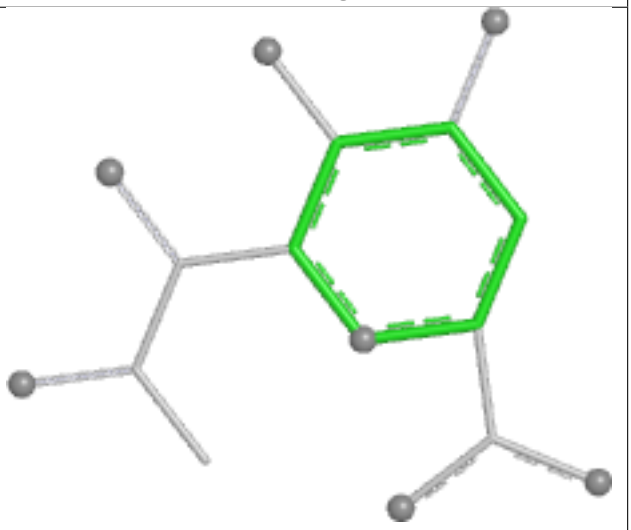
Bond lengths



Bond angles

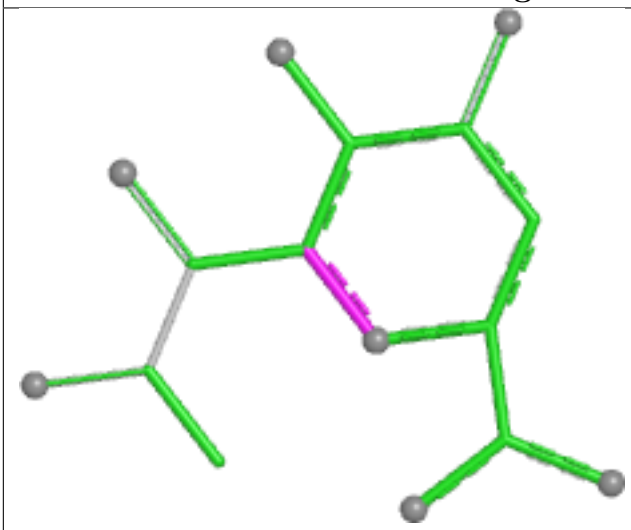


Torsions

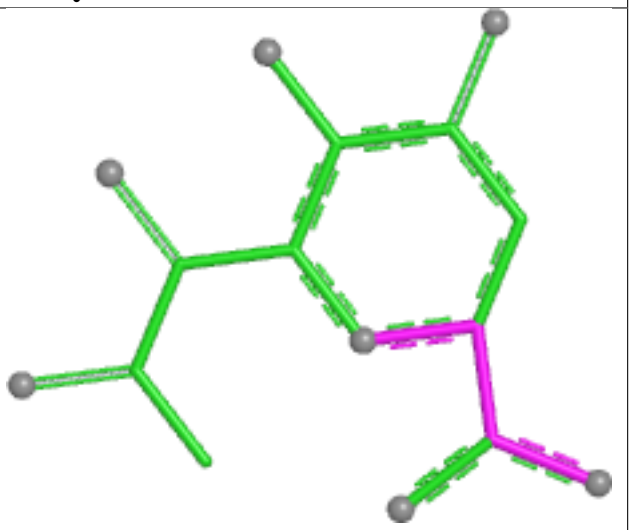


Rings

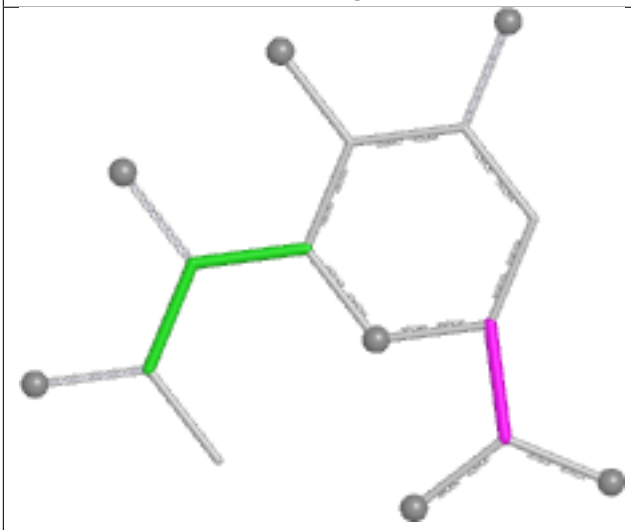
Ligand P8E GQ 605



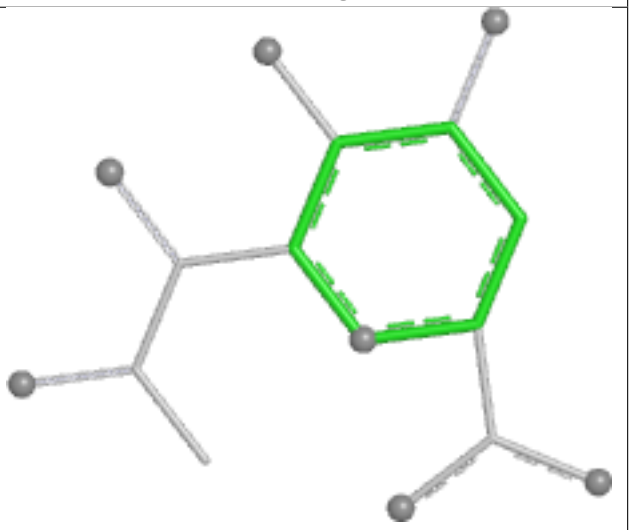
Bond lengths



Bond angles

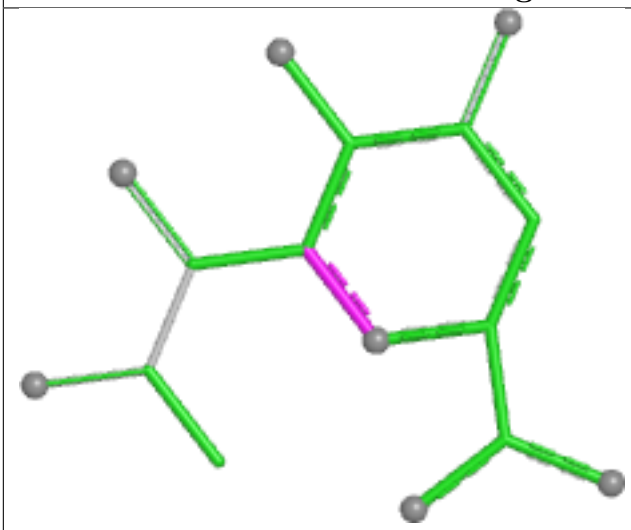


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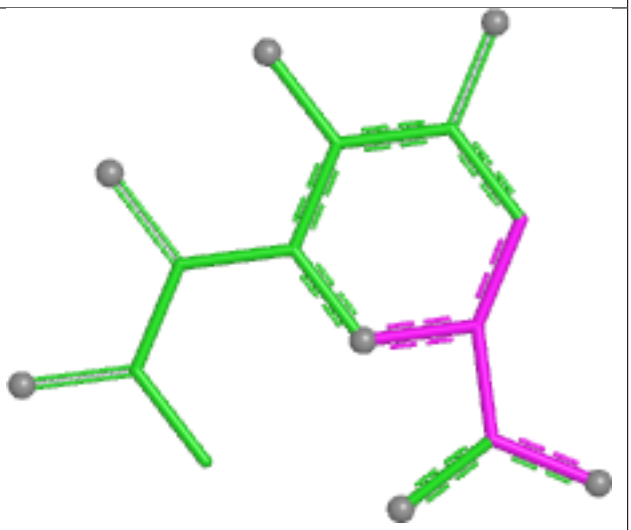


Rings

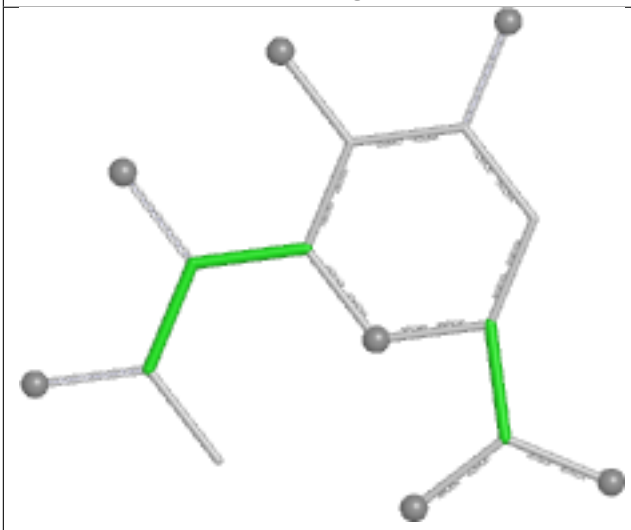
Ligand P8E PU 601



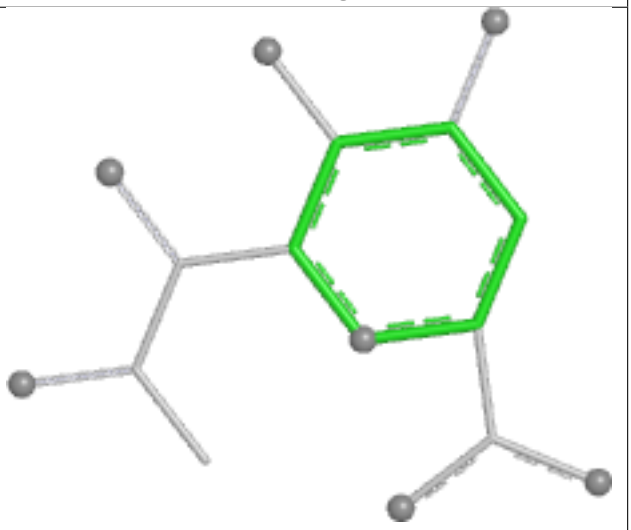
Bond lengths



Bond angles

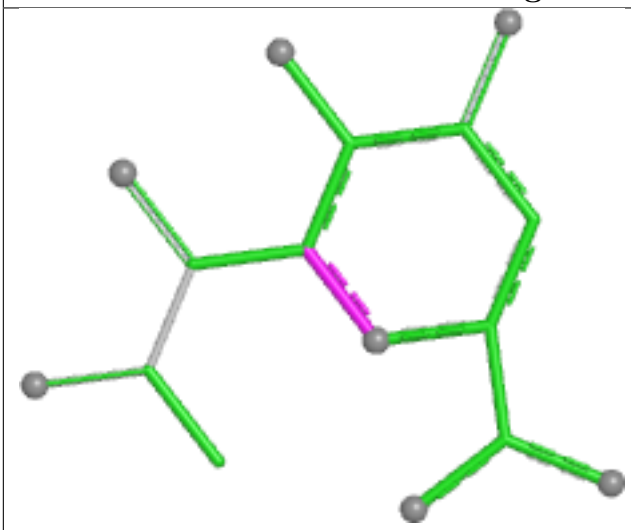


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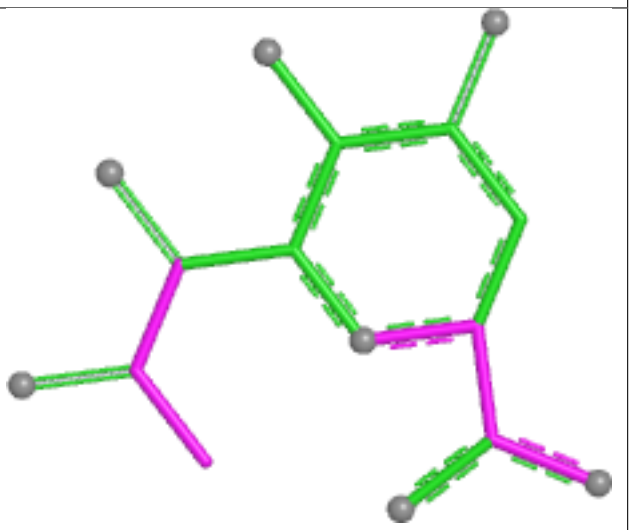


Rings

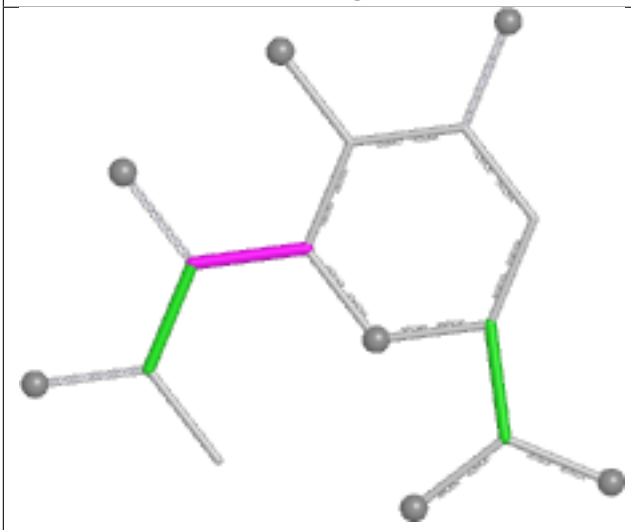
Ligand P8E e8 607



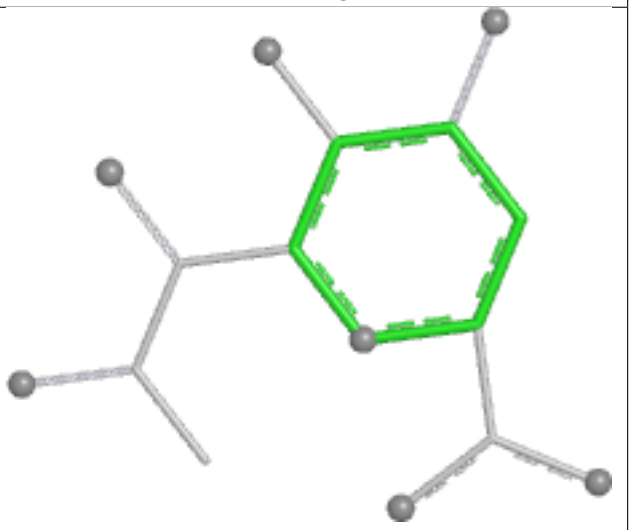
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Bond angles

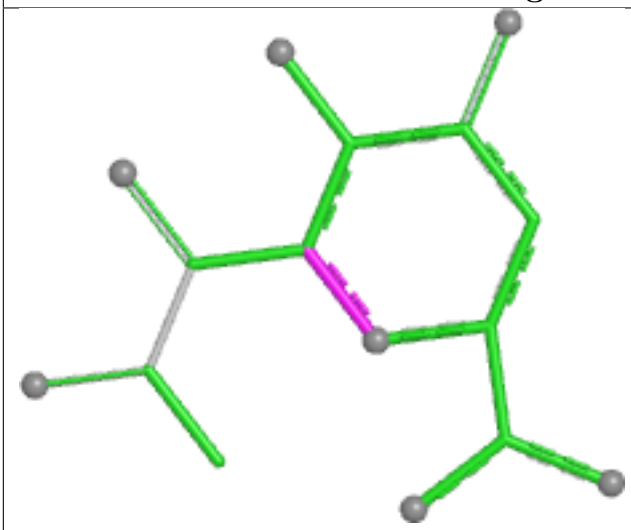


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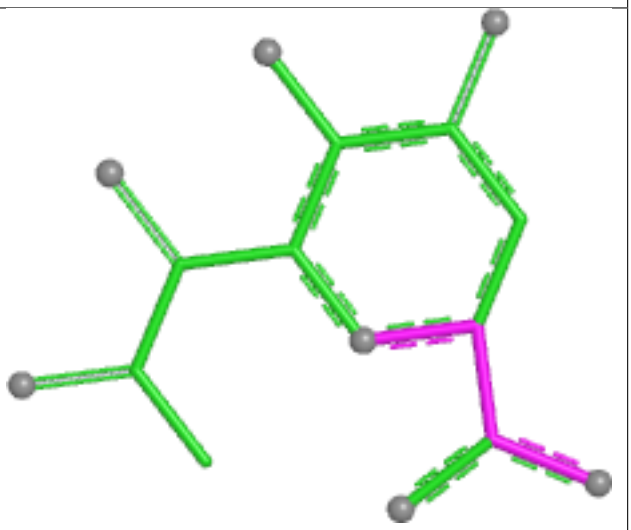


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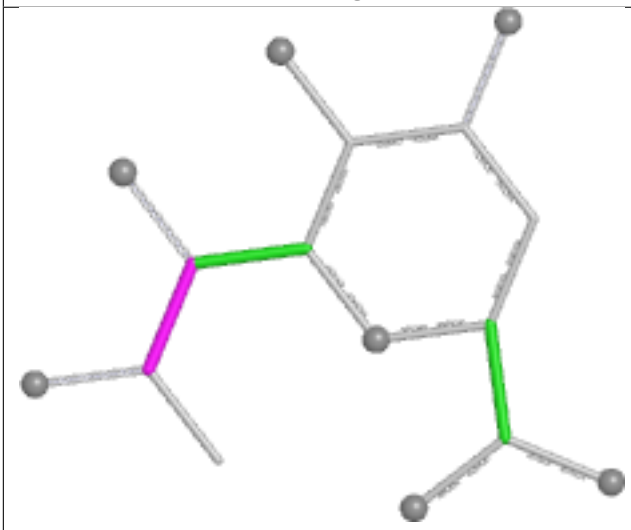
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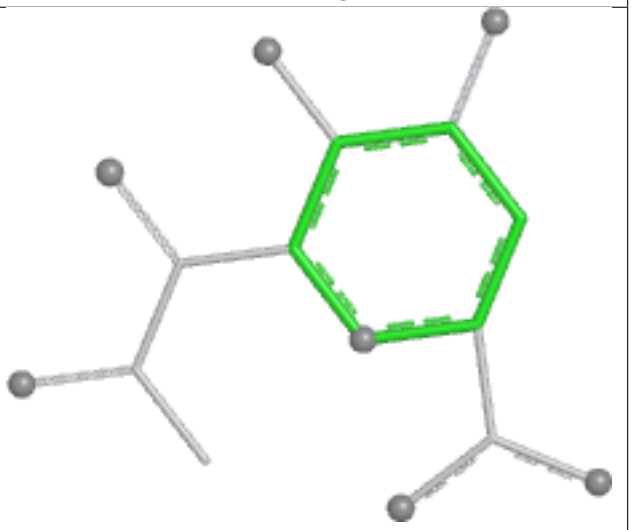
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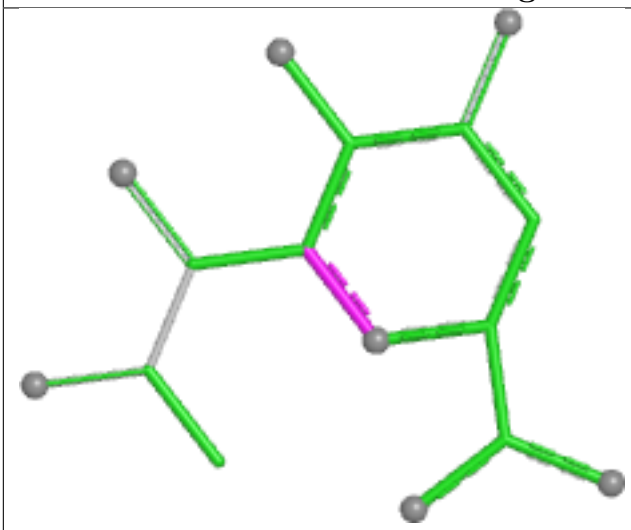


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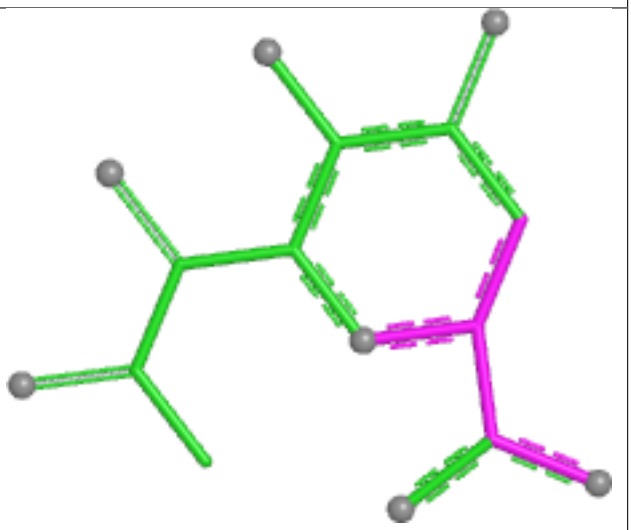


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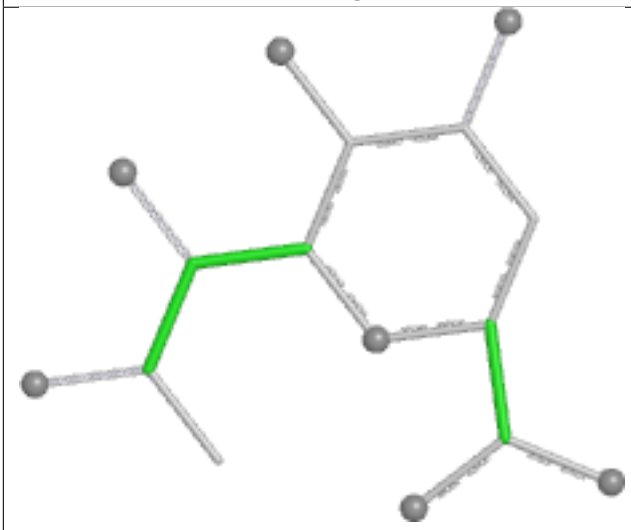
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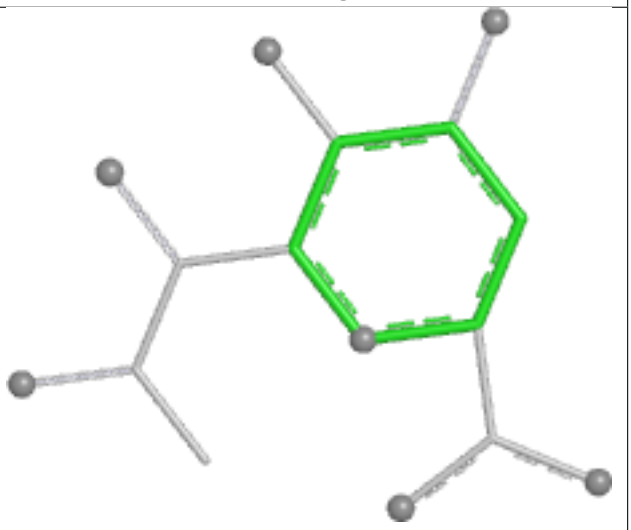
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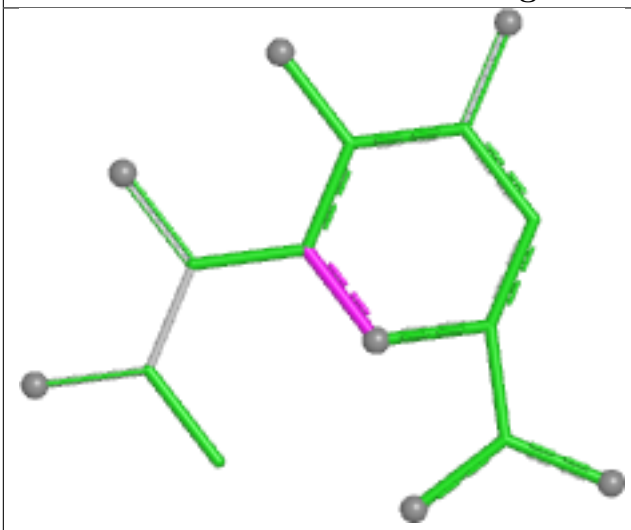


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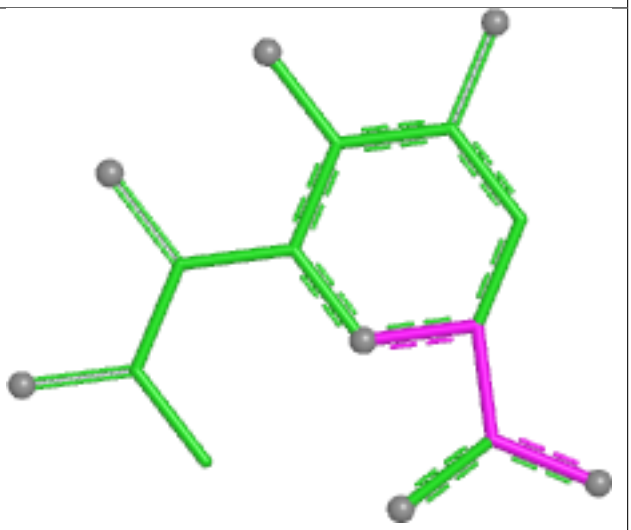


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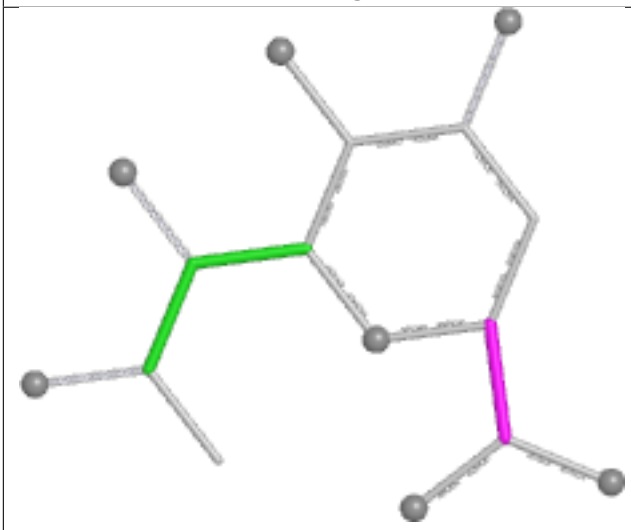
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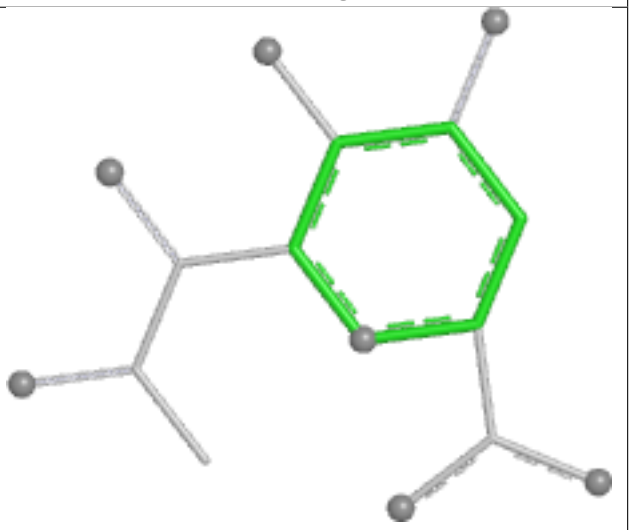
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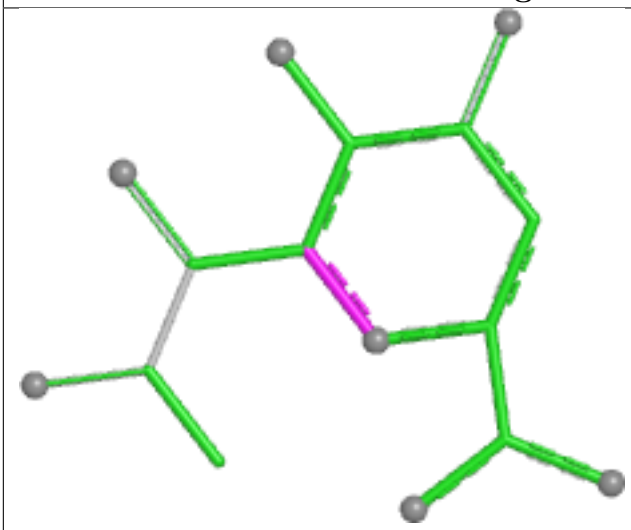


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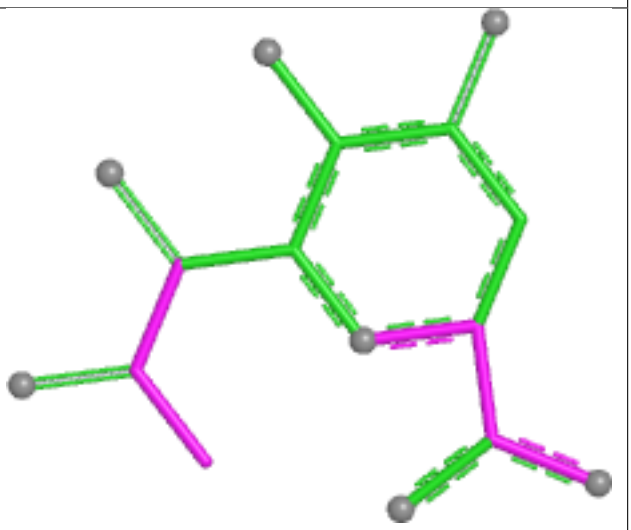


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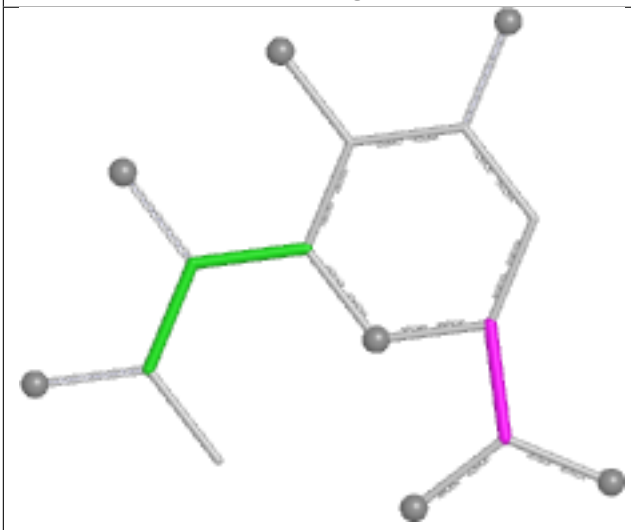
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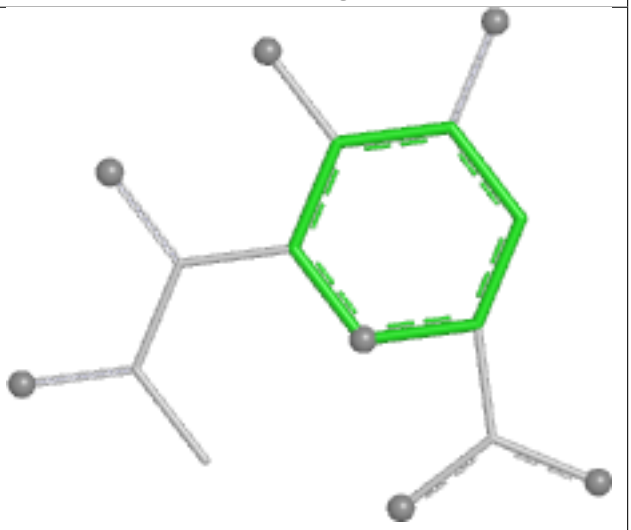
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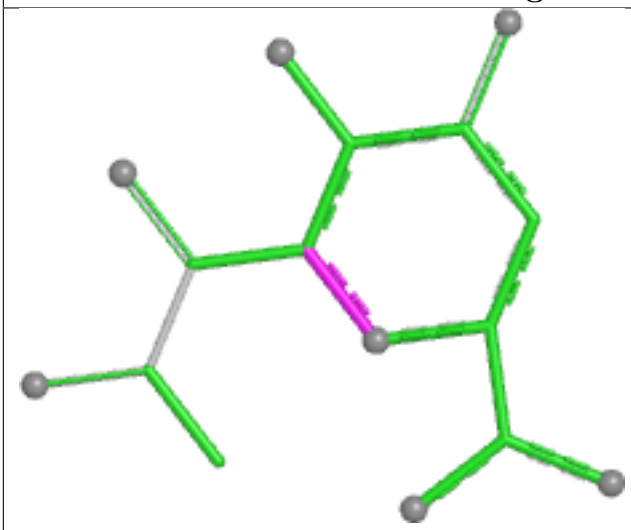


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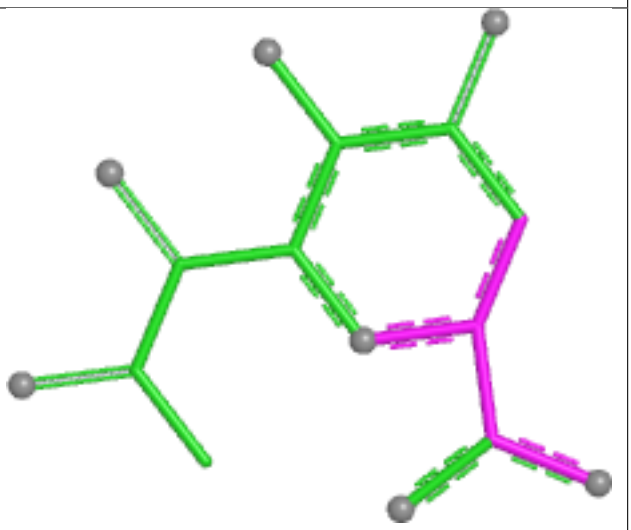


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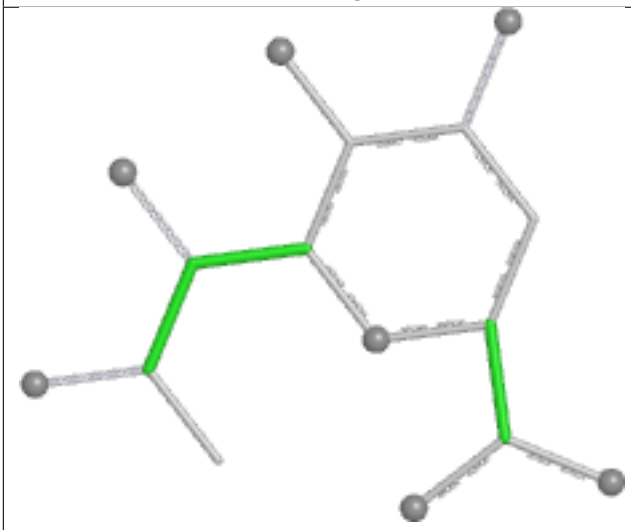
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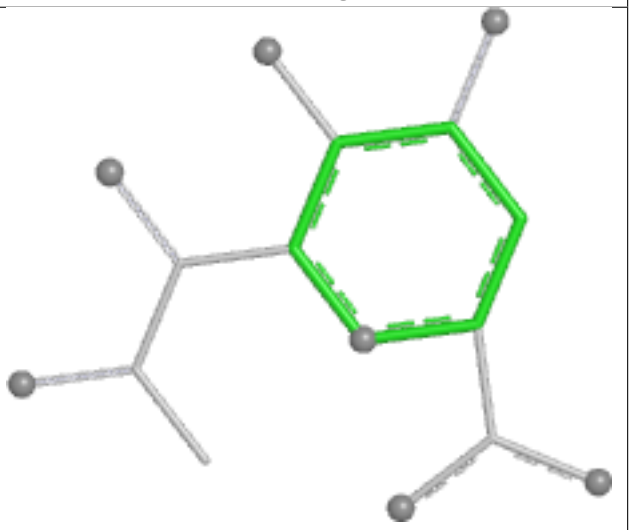
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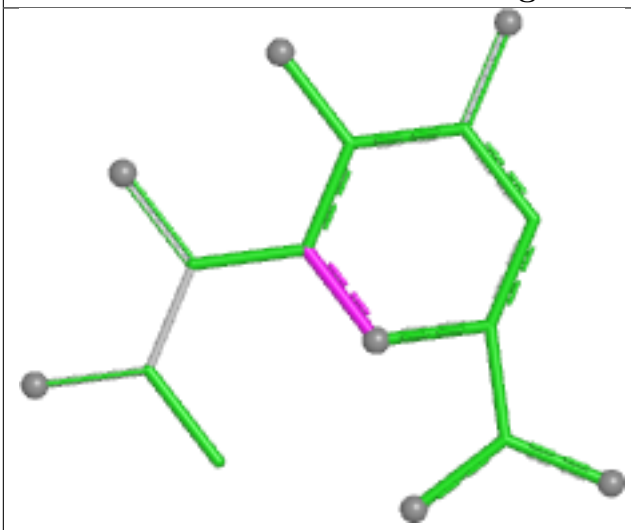


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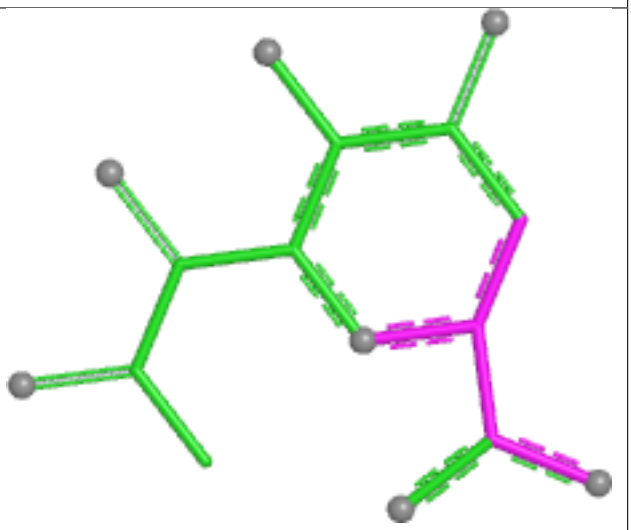


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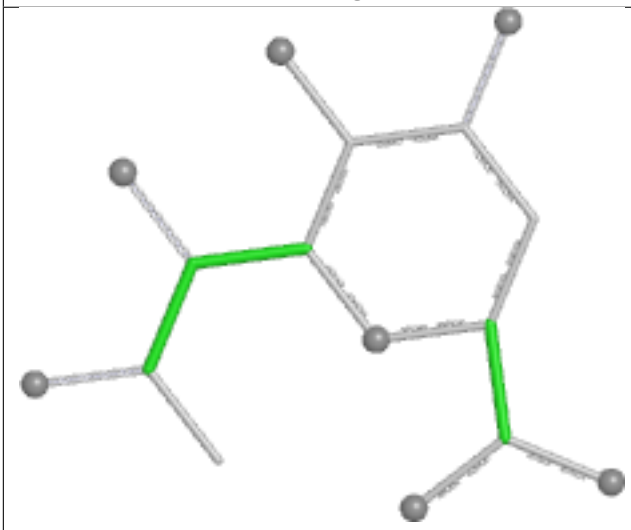
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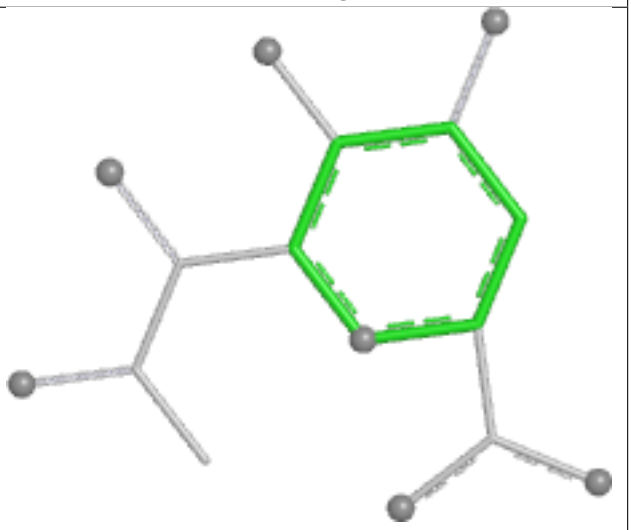
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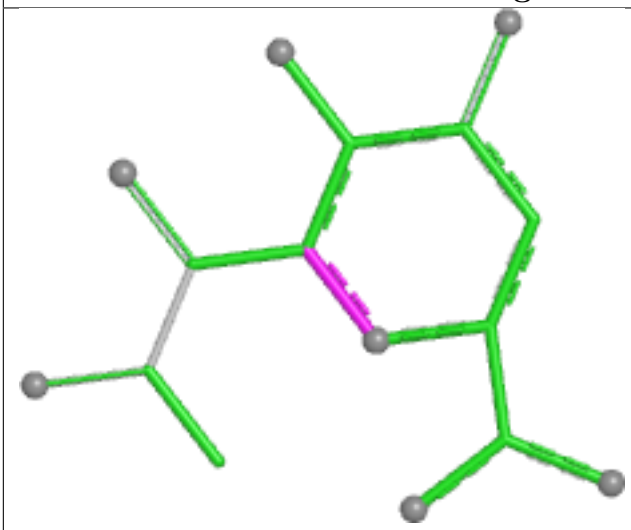


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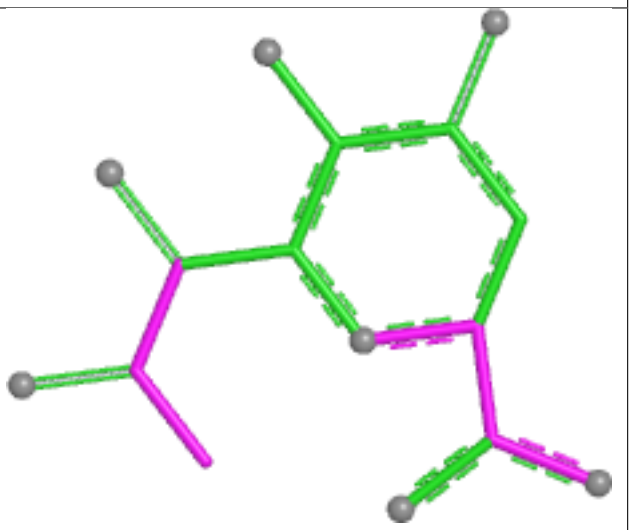


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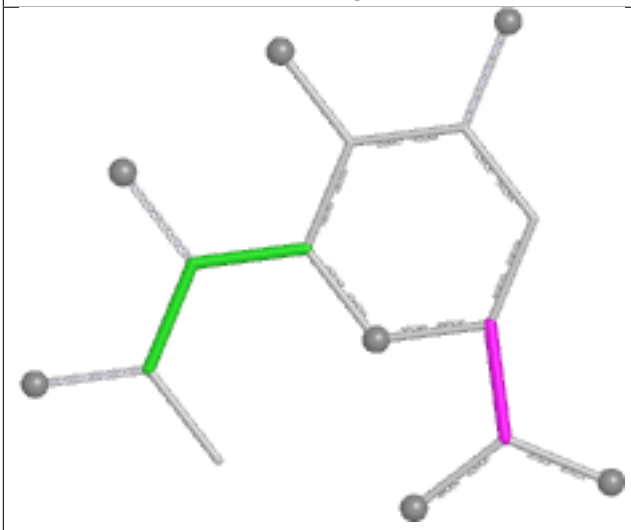
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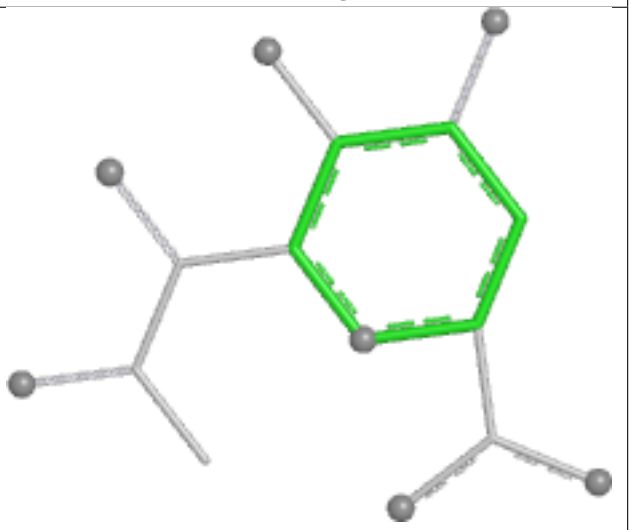
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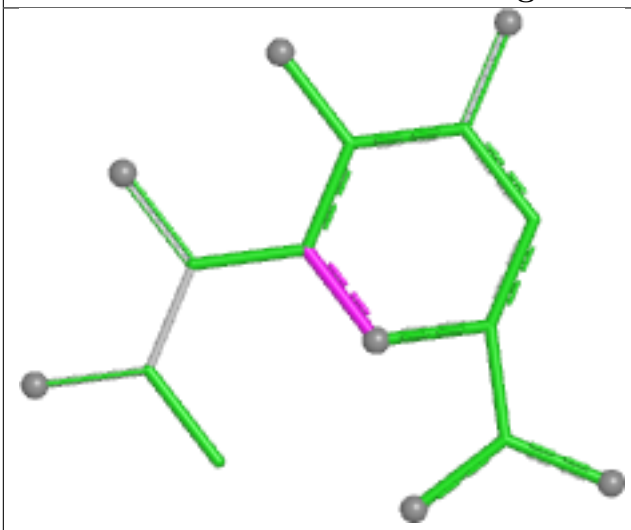


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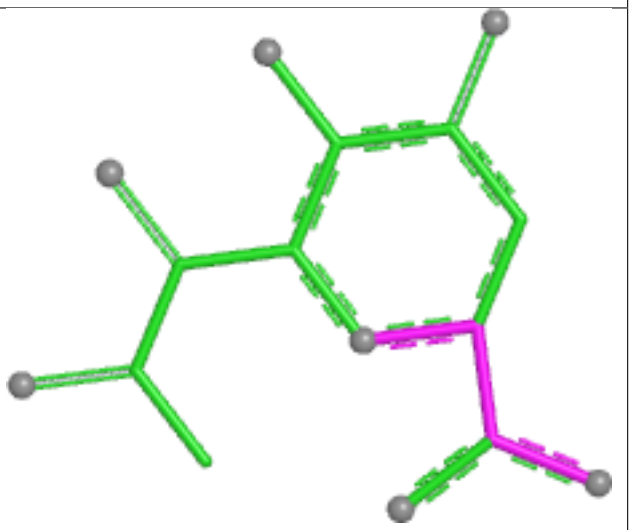


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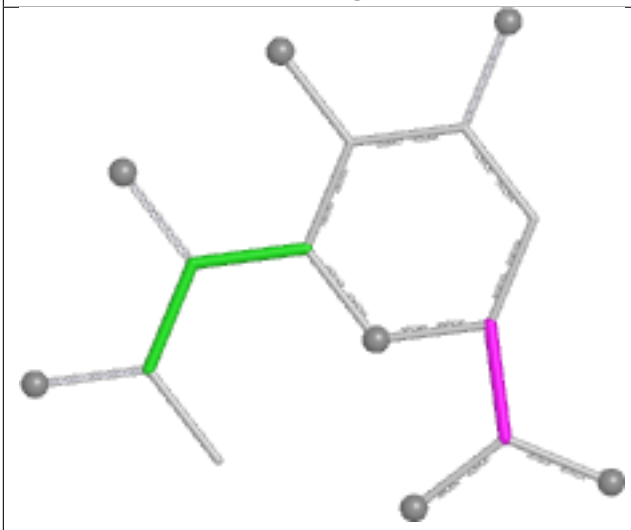
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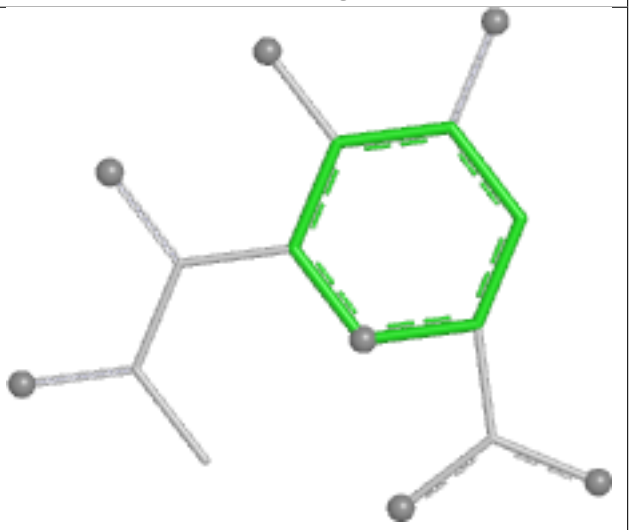
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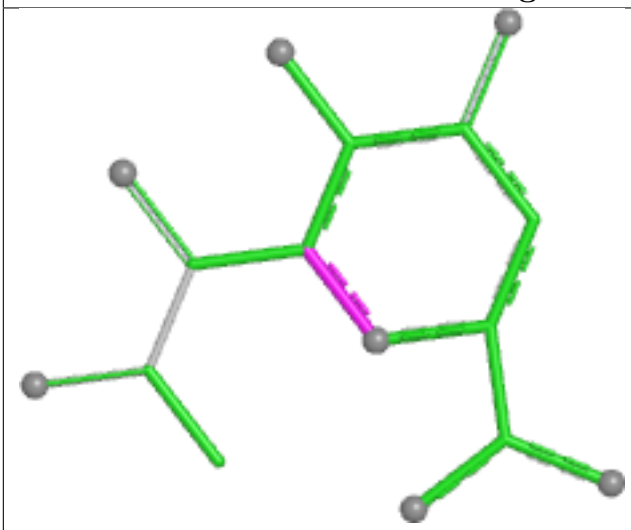


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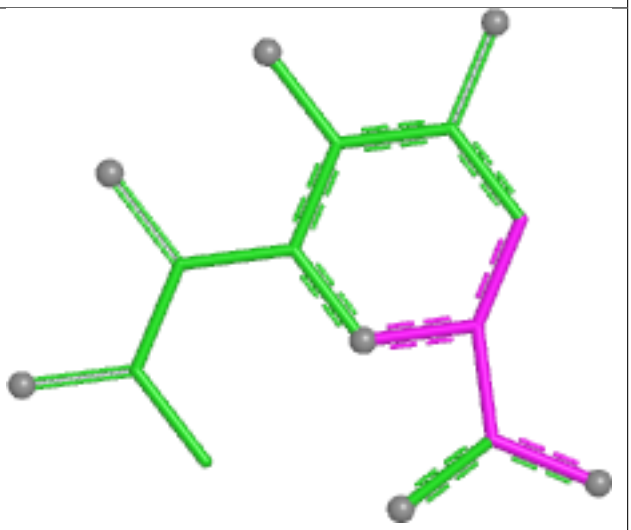


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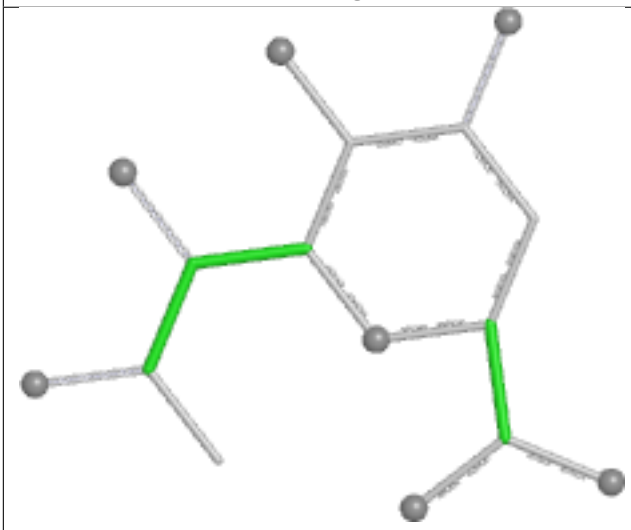
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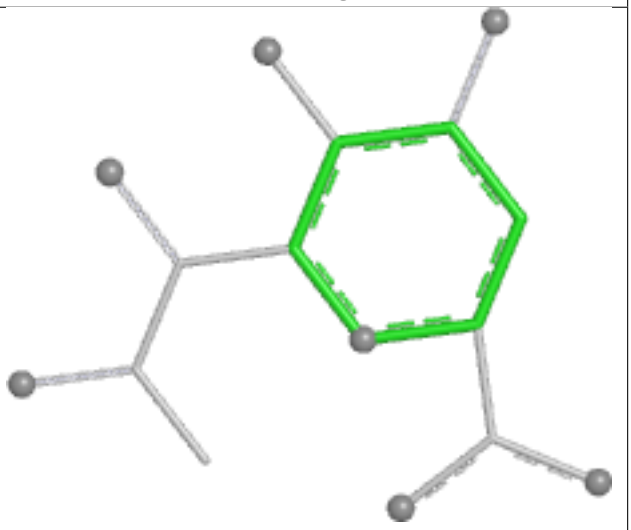
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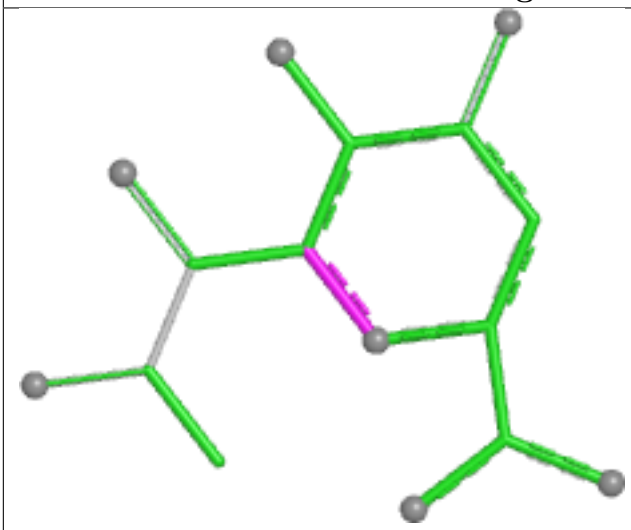


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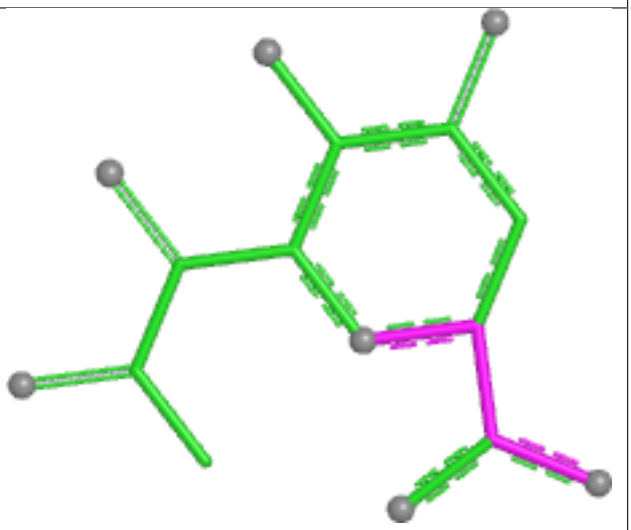


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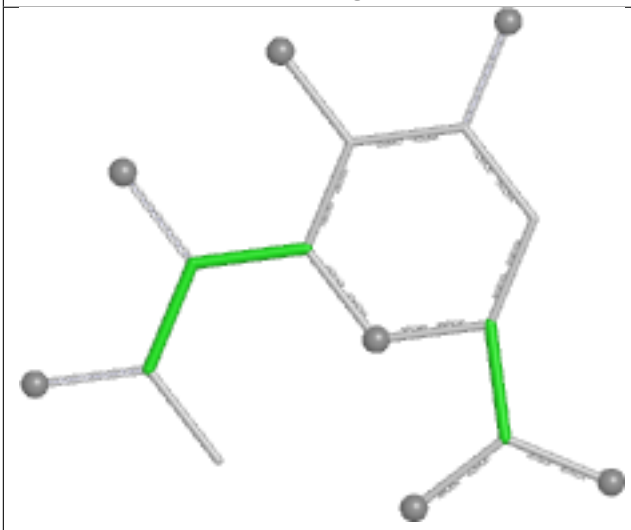
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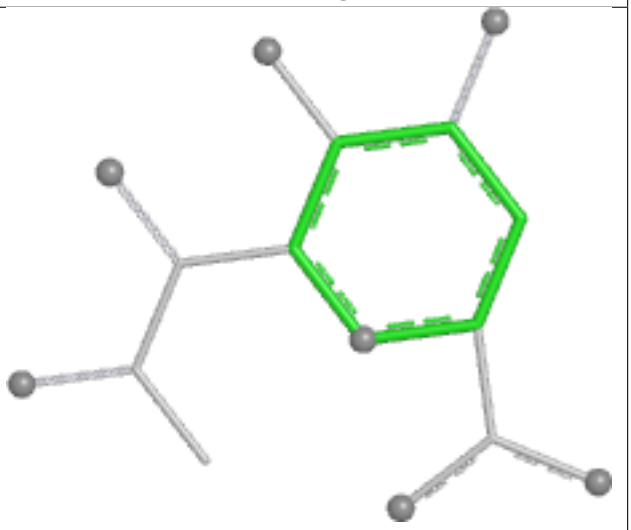
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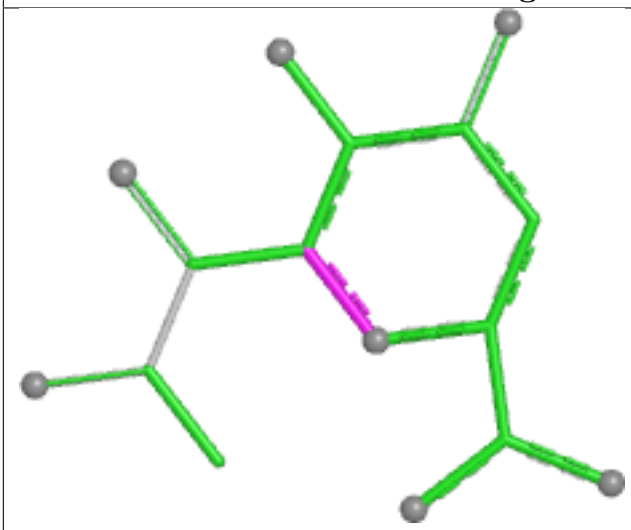


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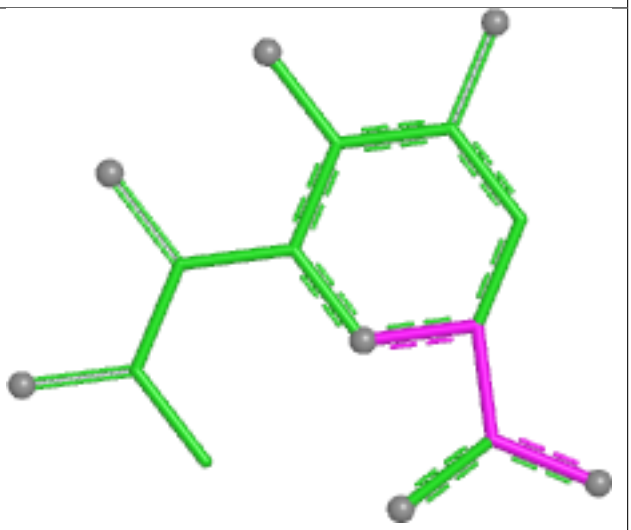


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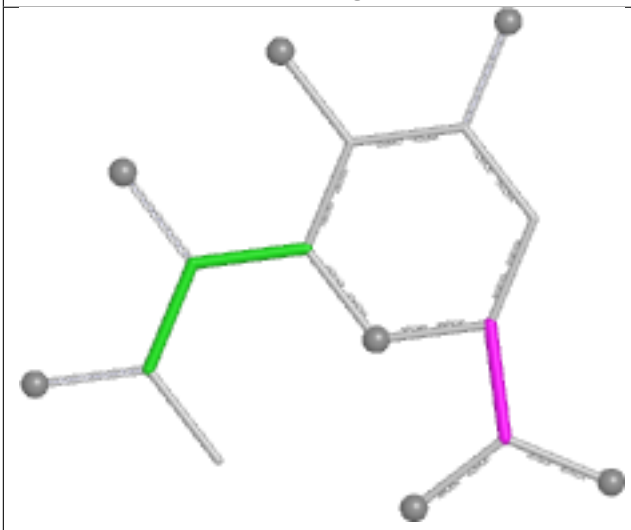
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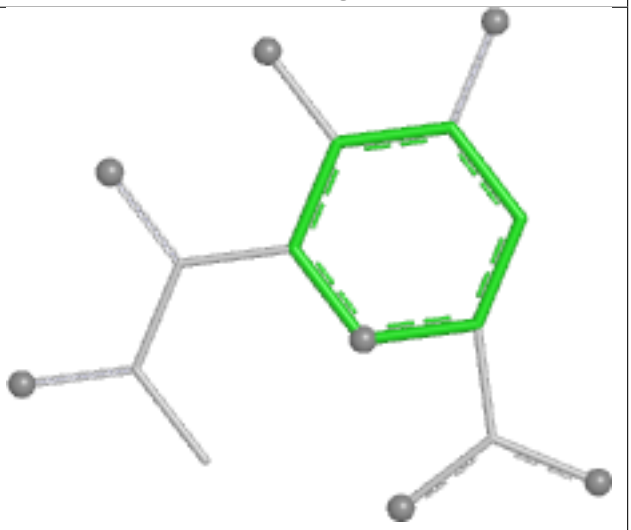
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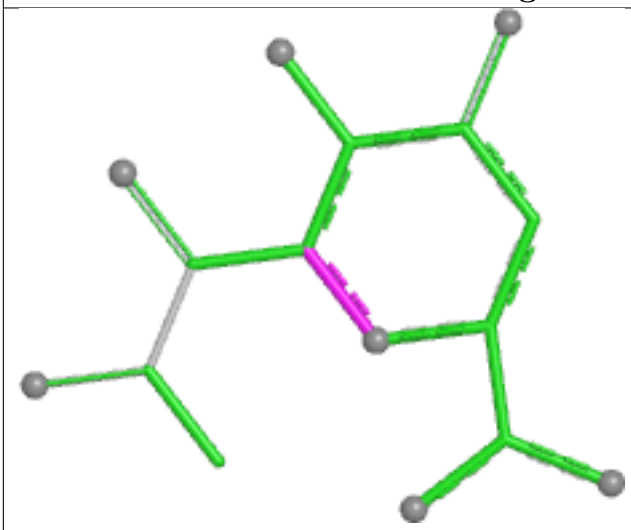


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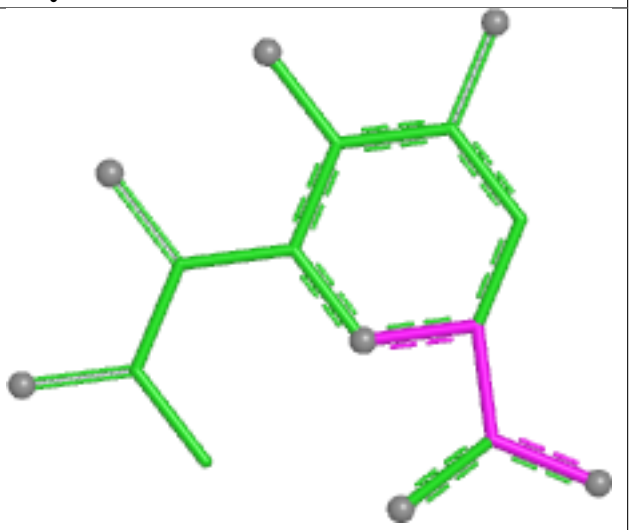


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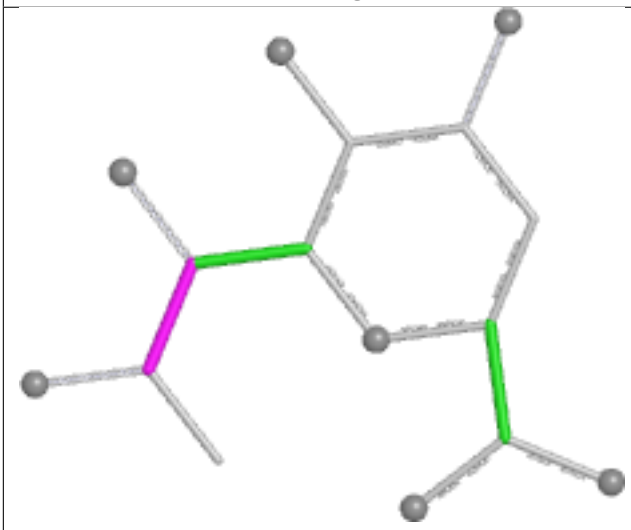
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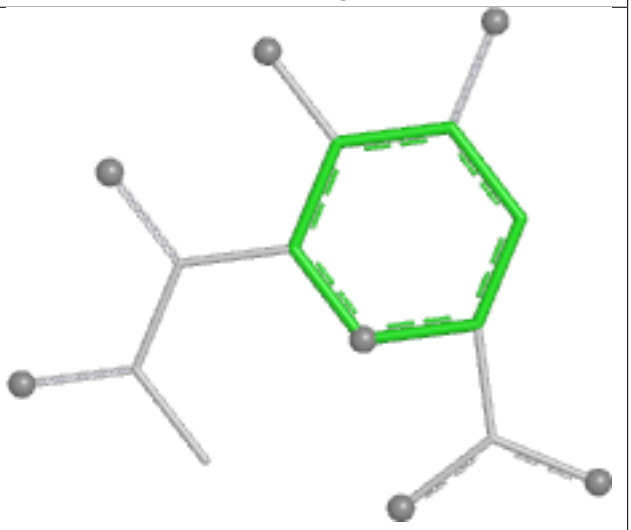
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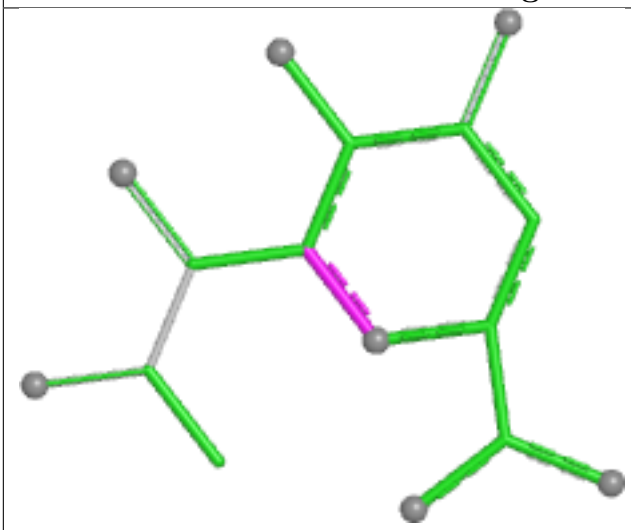


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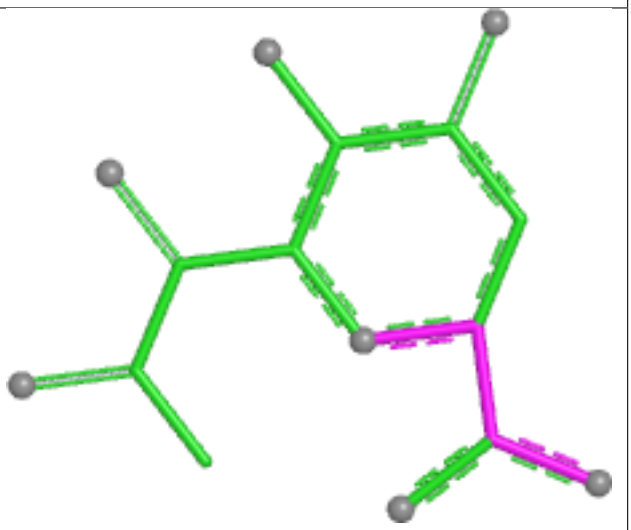


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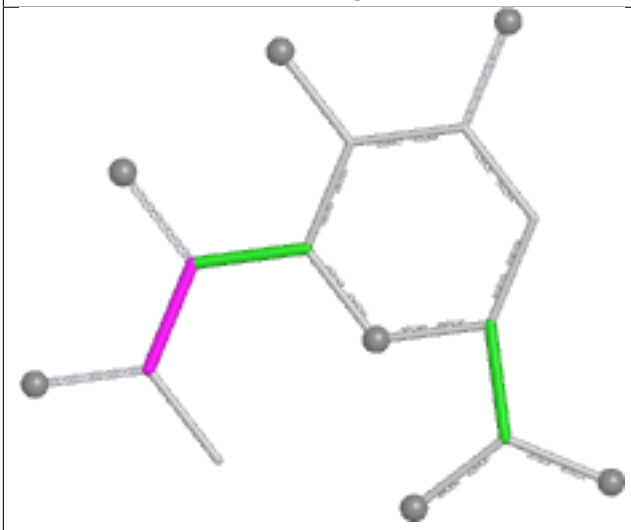
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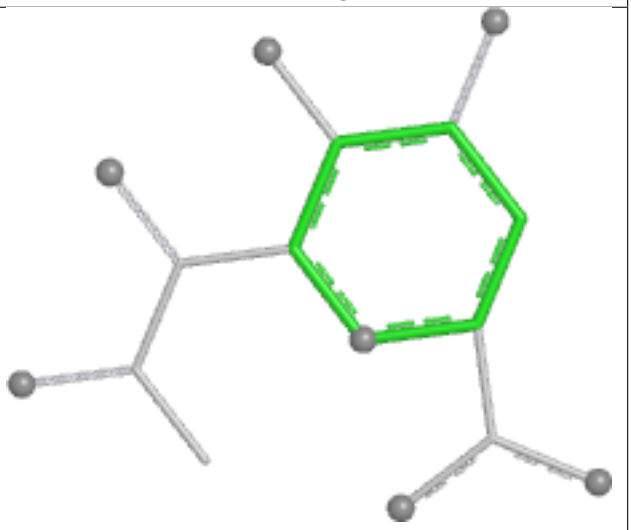
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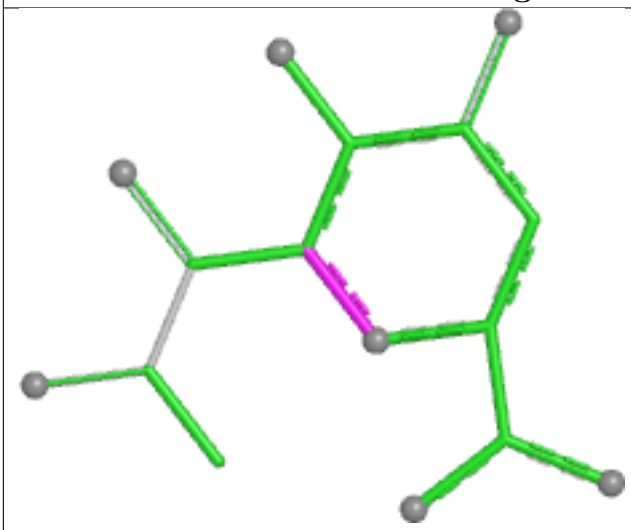


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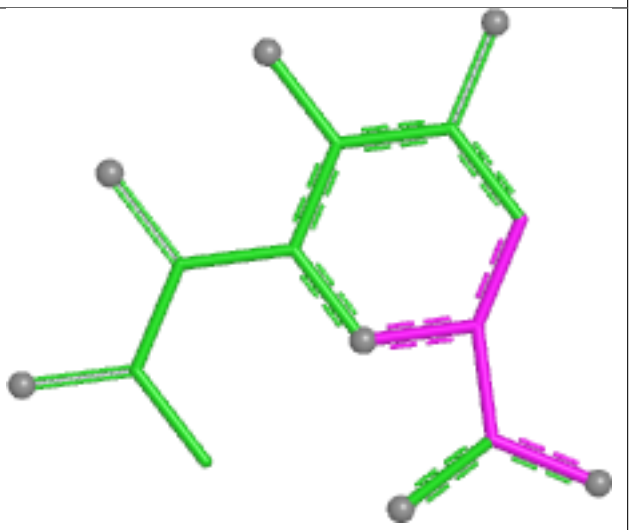


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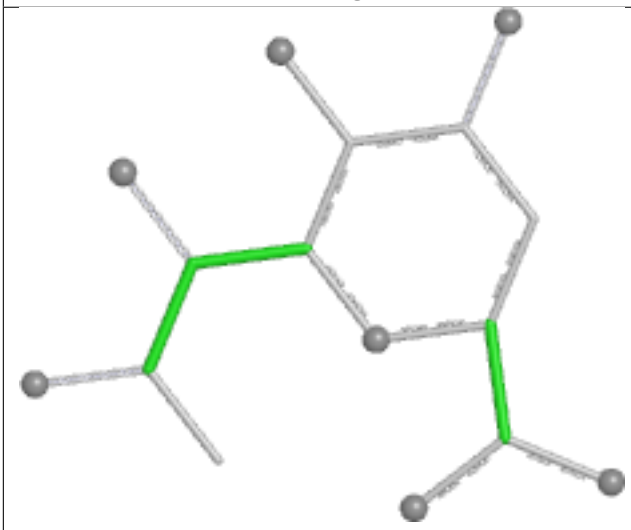
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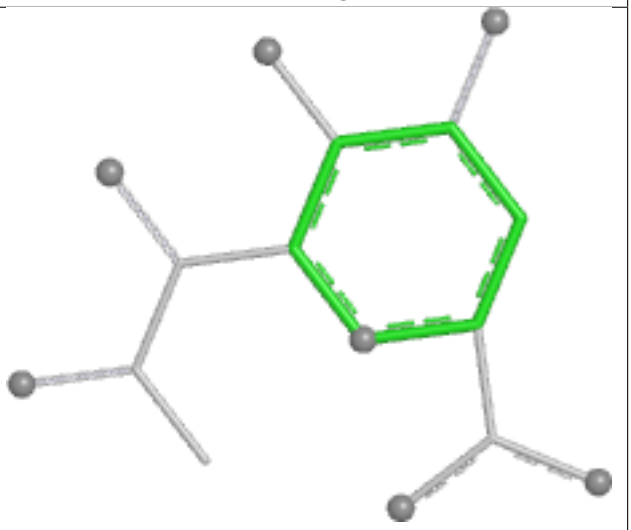
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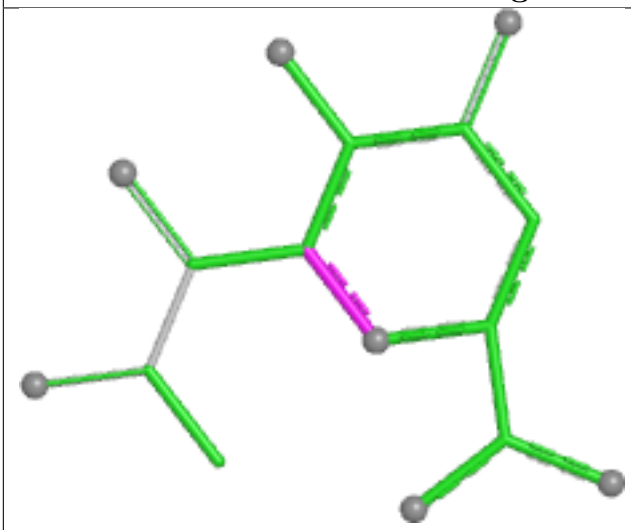


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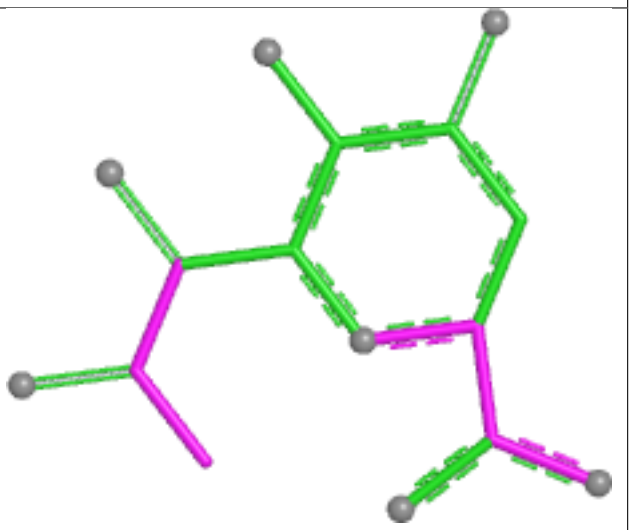


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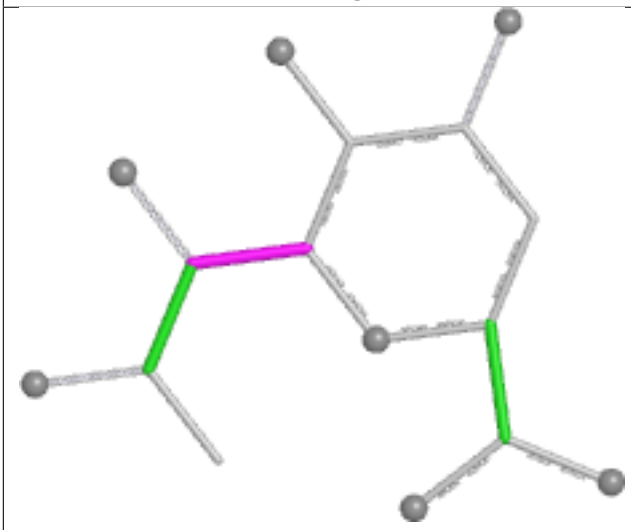
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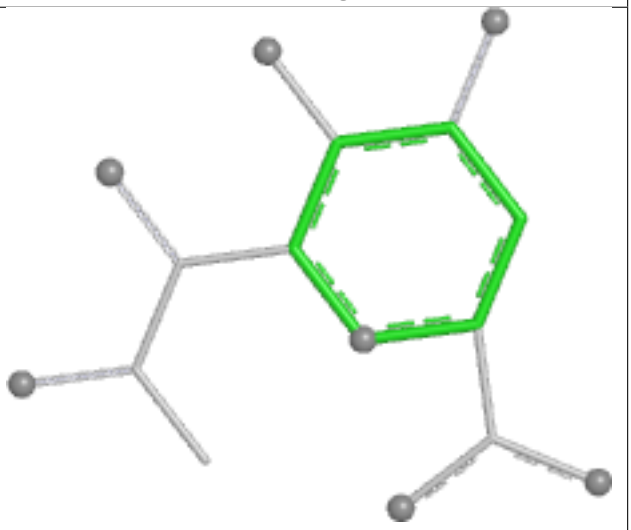
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Bond angles

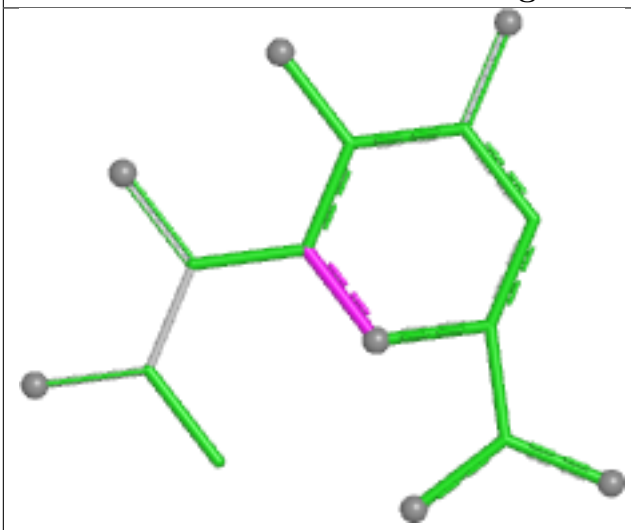


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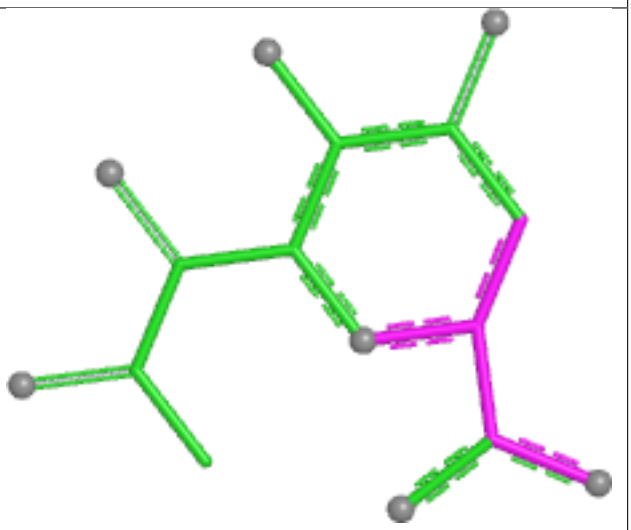


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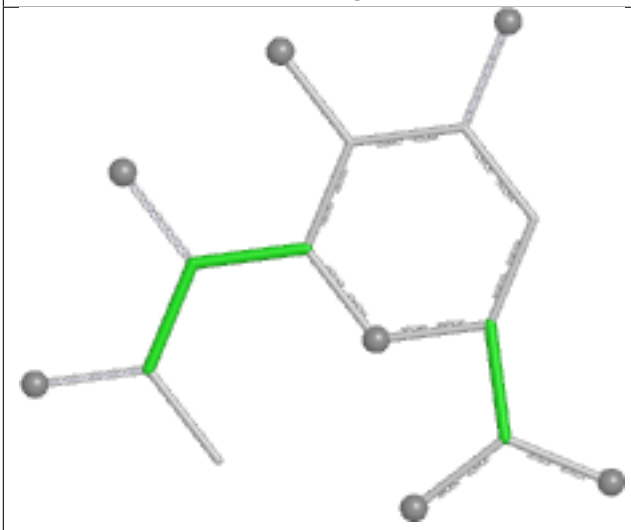
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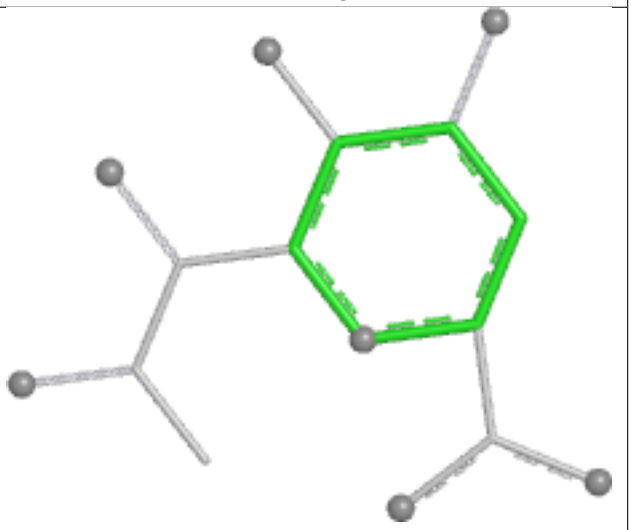
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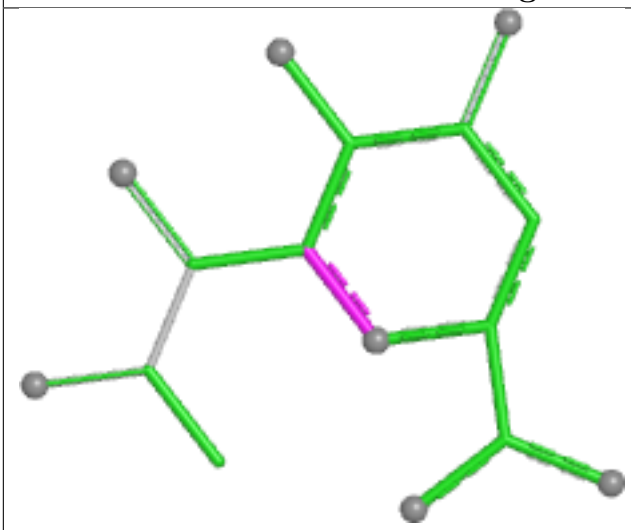


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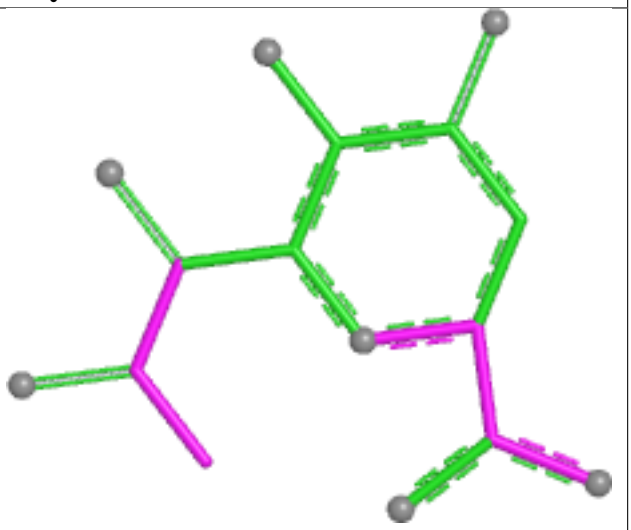


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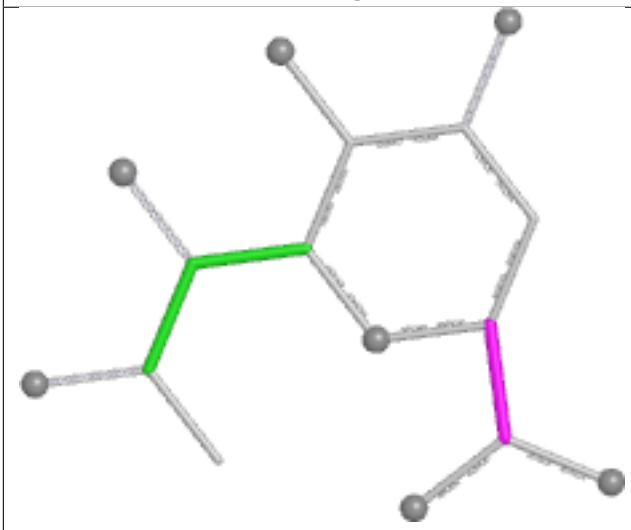
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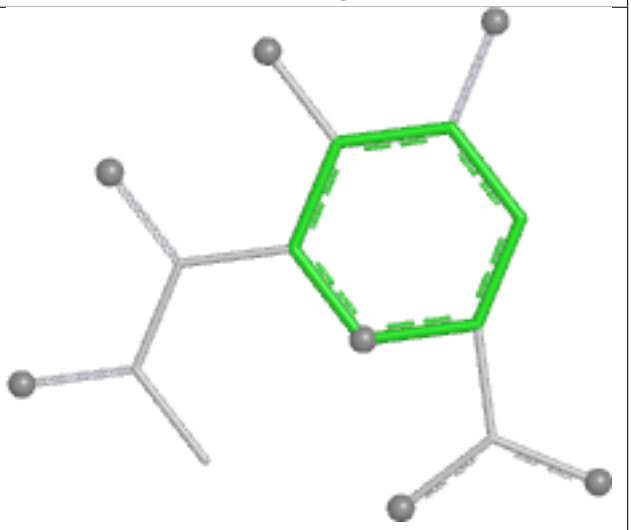
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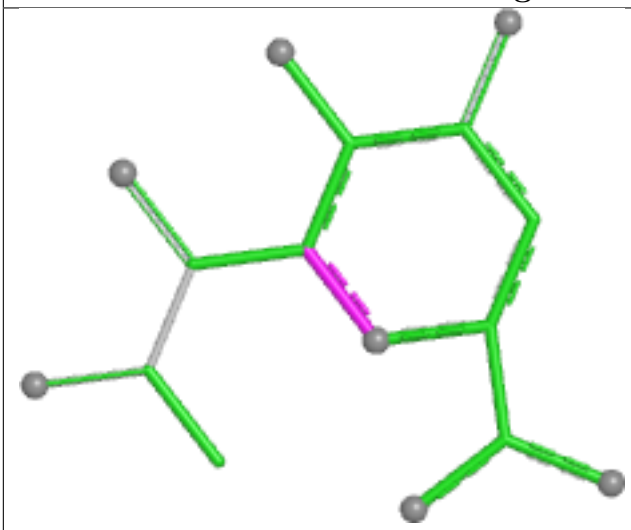


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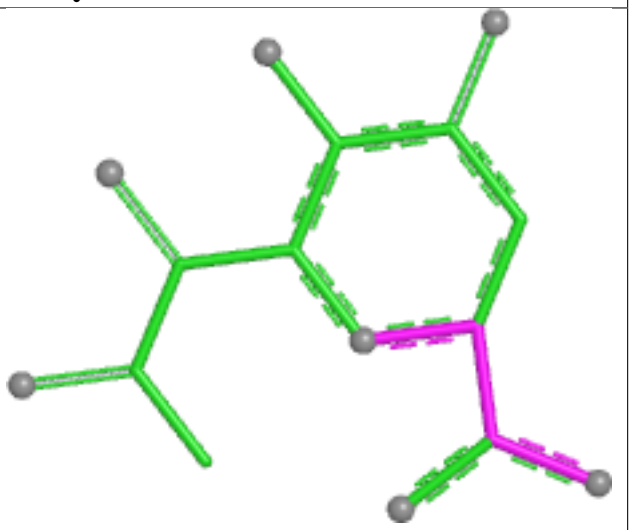


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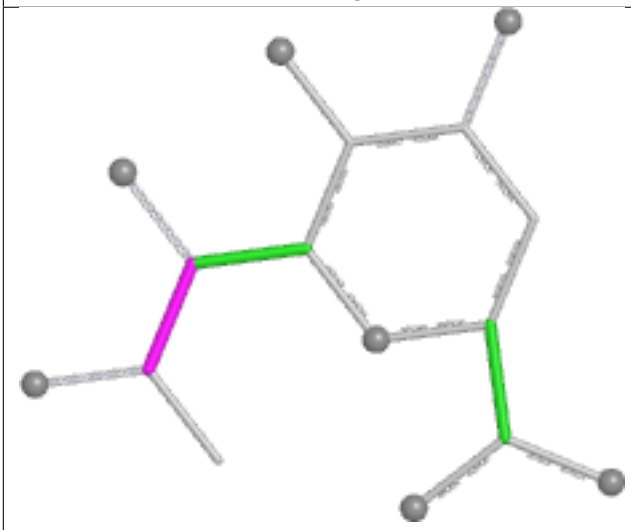
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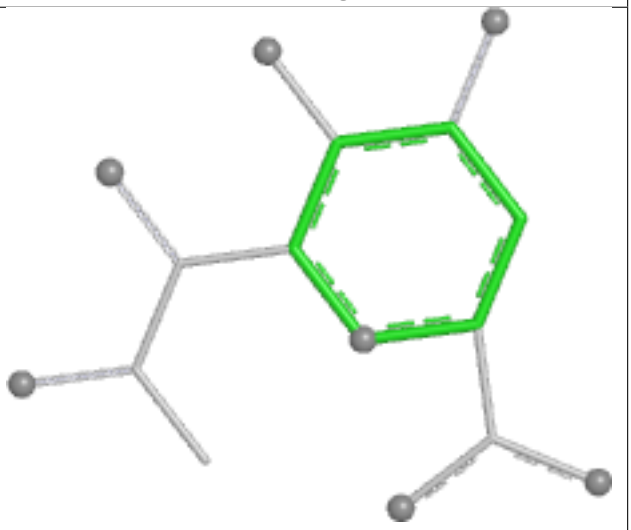
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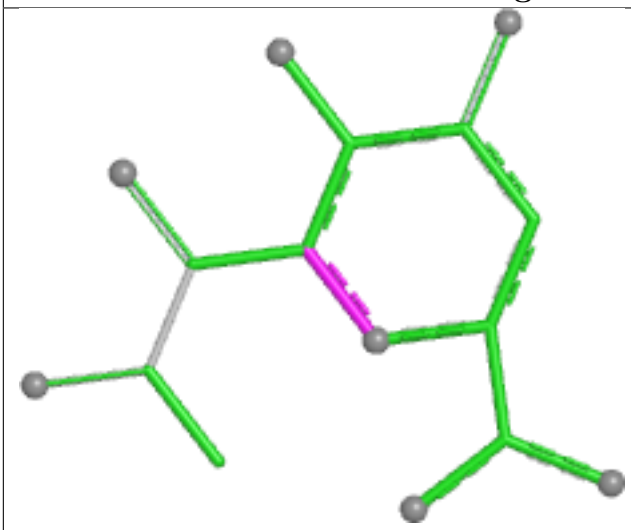


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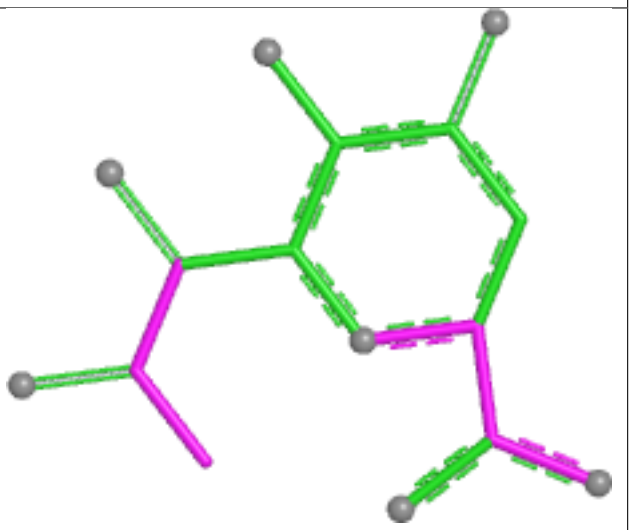


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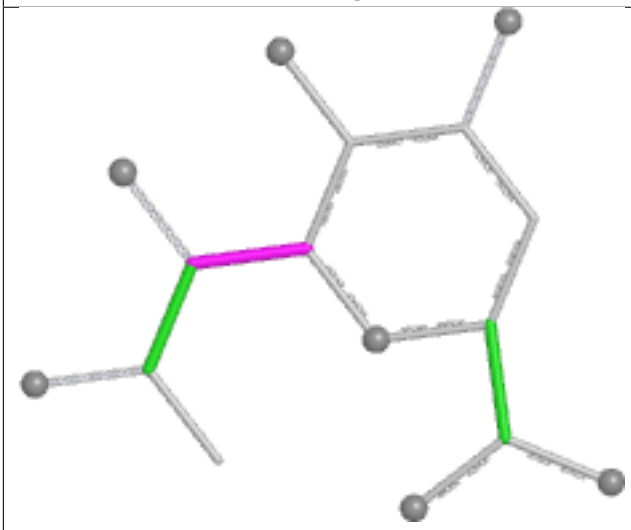
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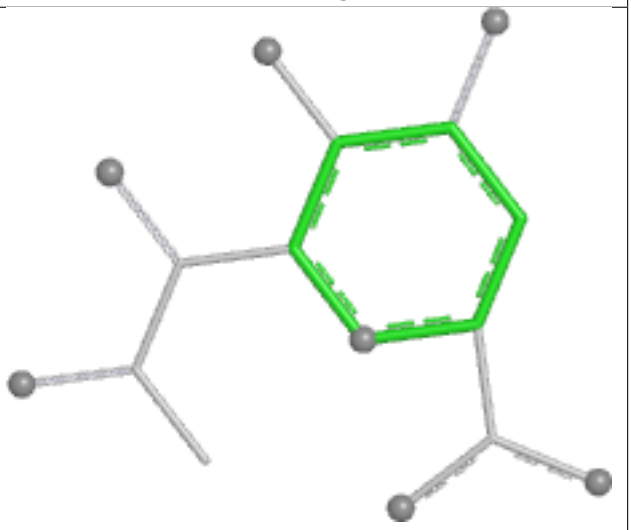
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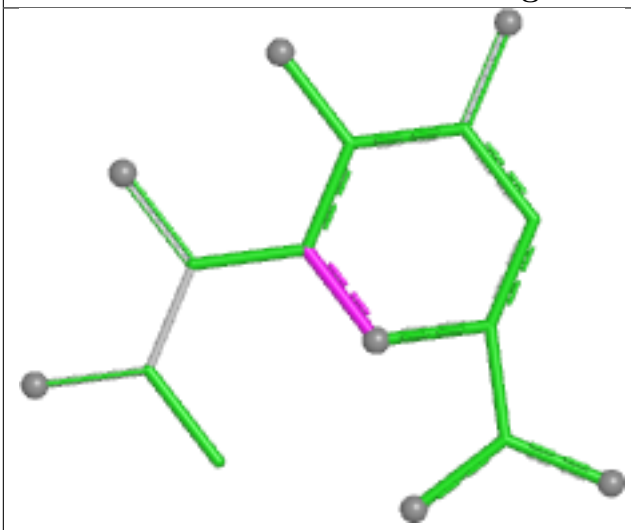


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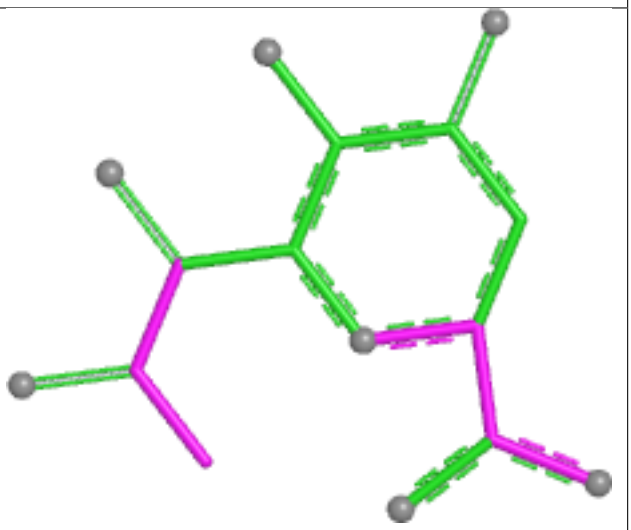


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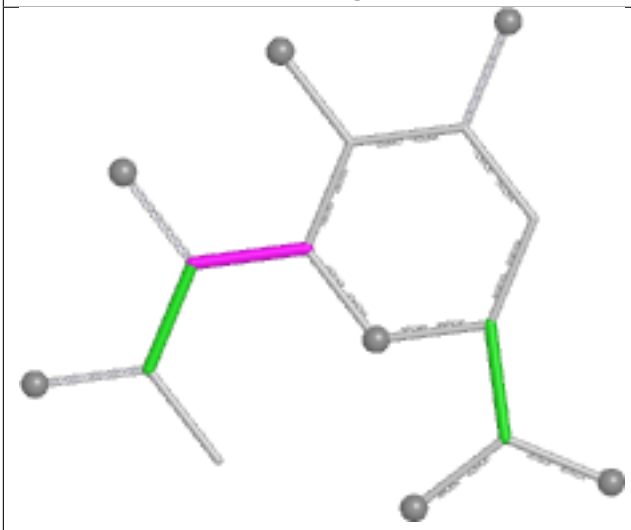
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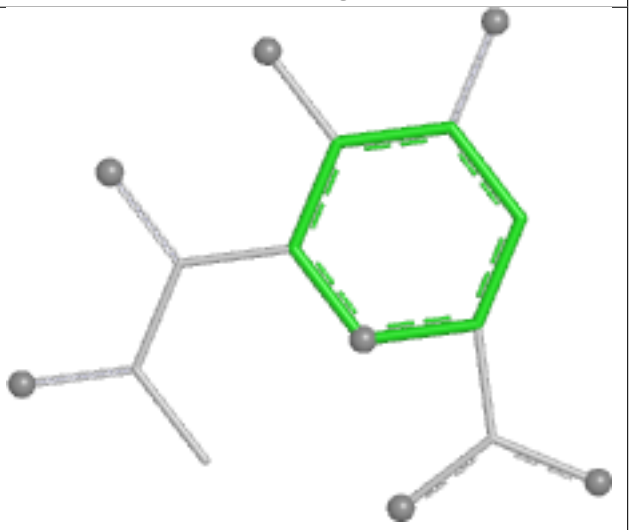
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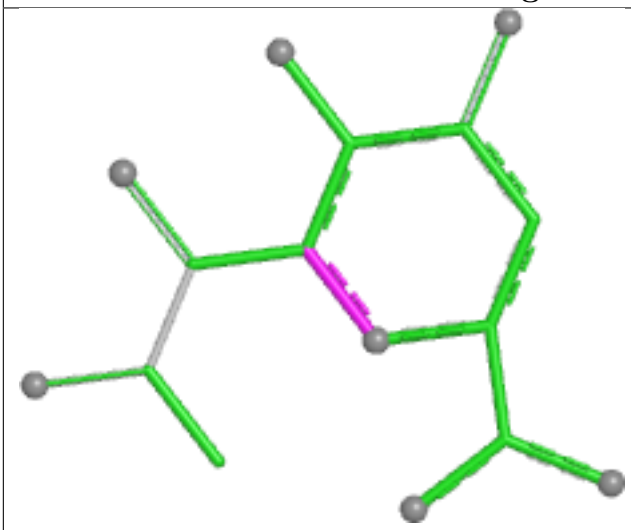


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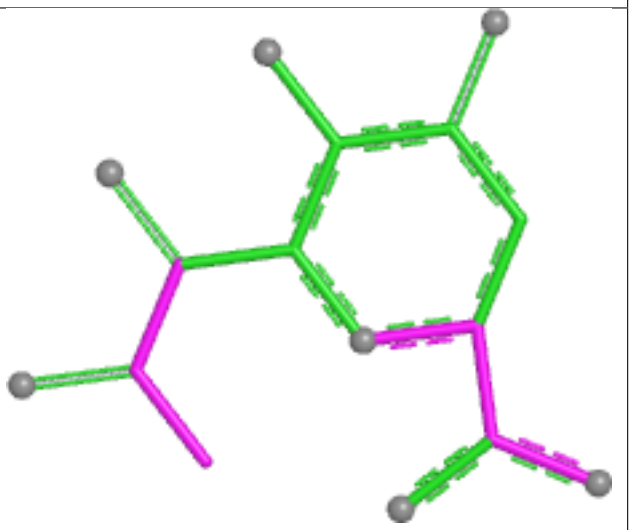


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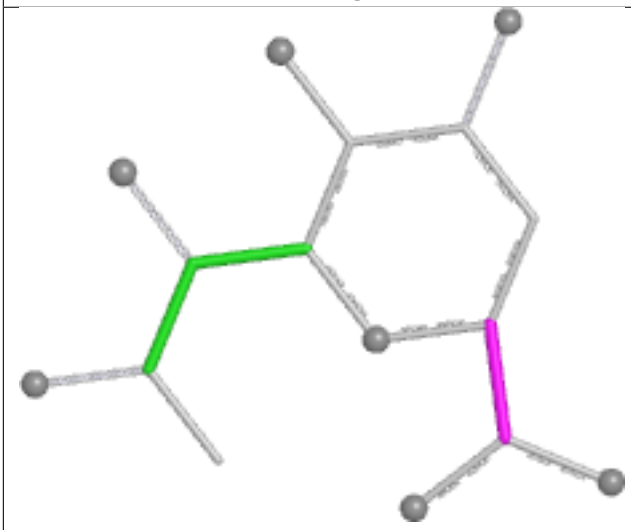
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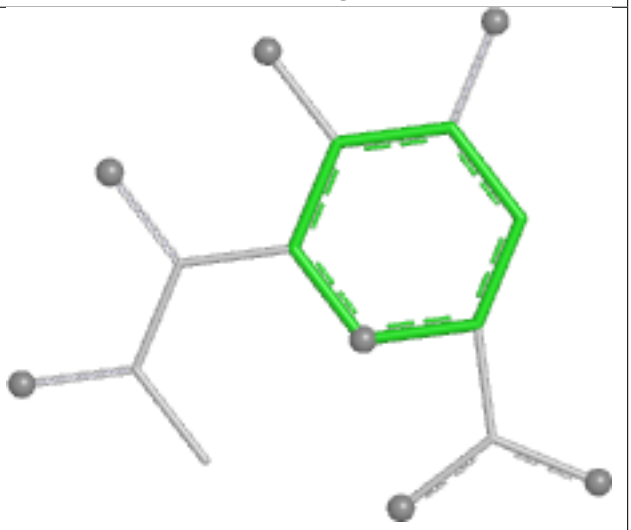
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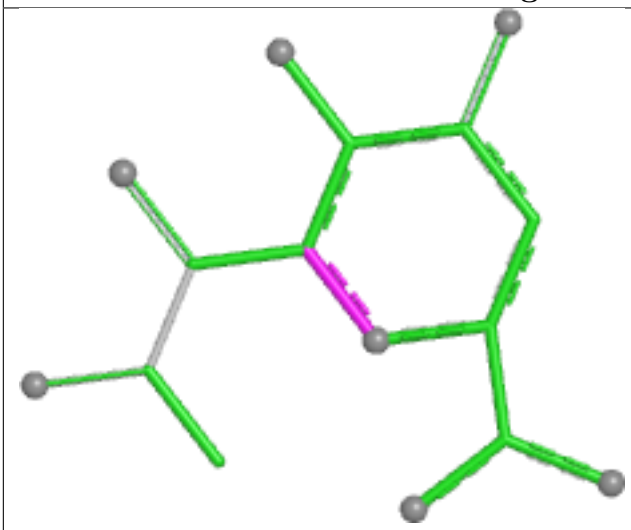


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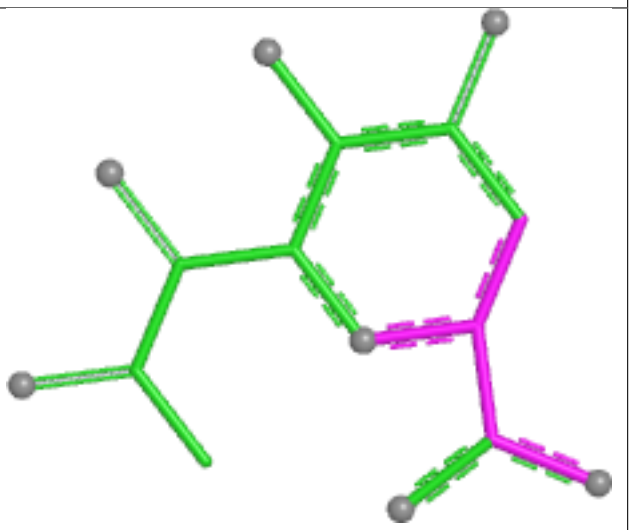


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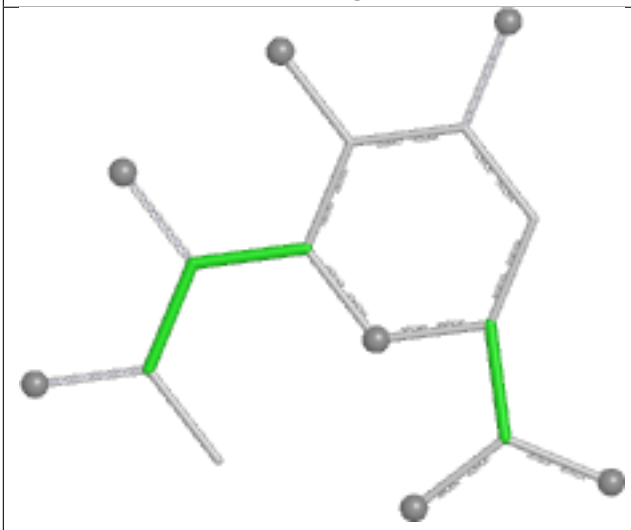
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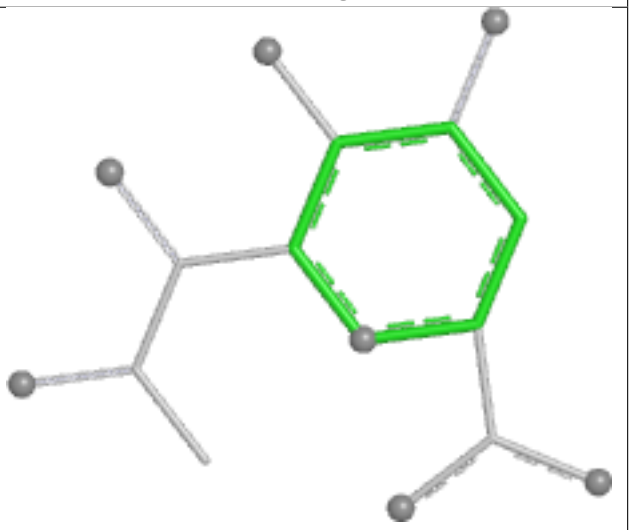
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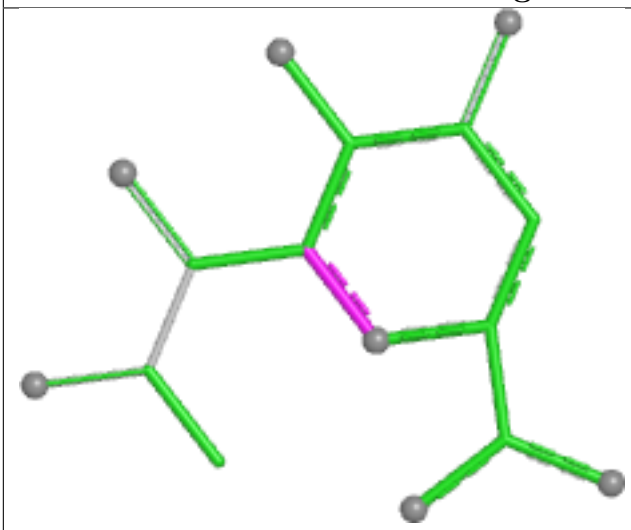


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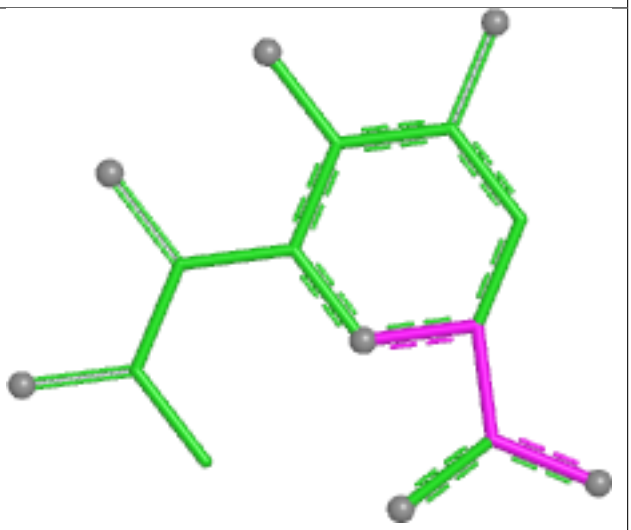


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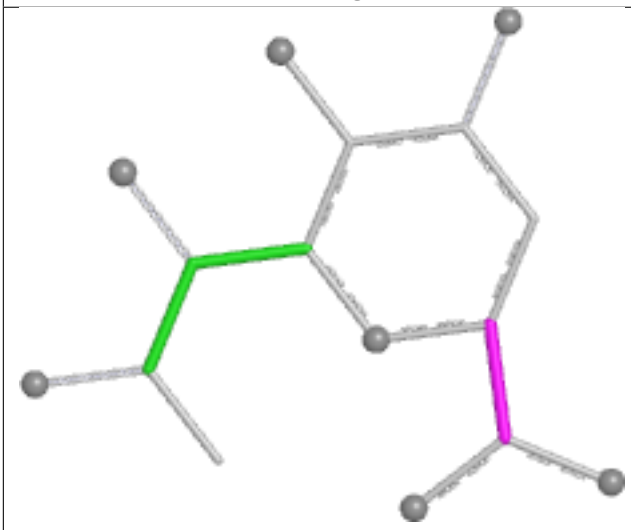
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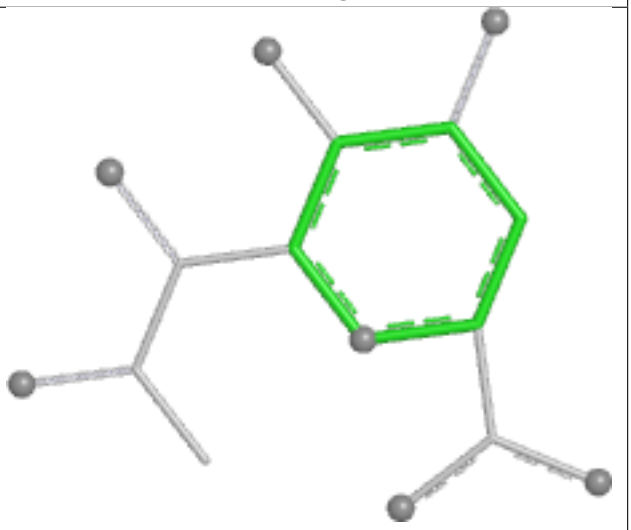
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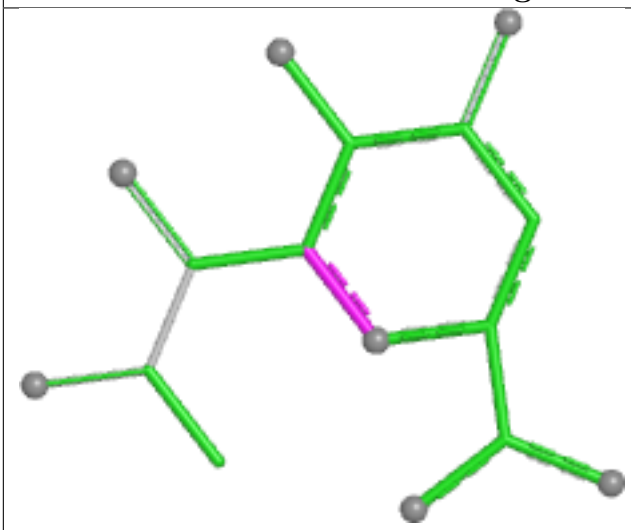


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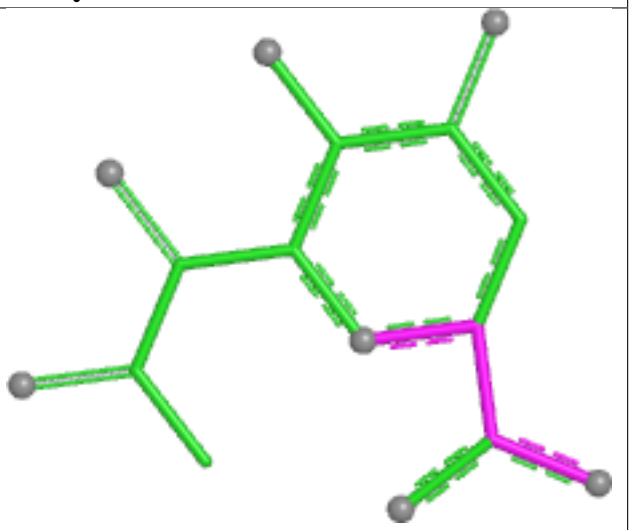


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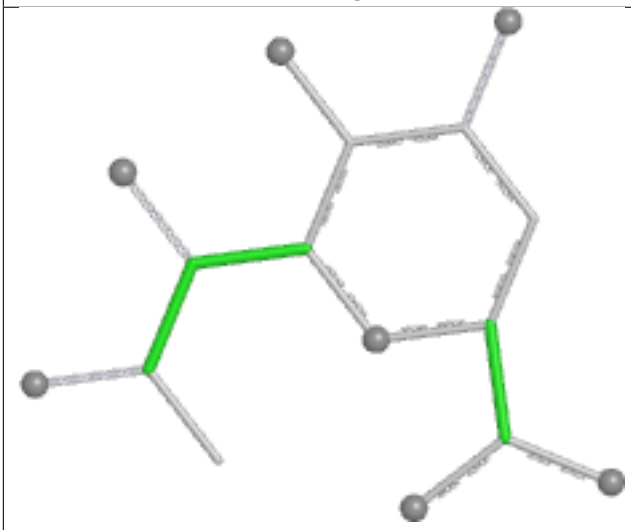
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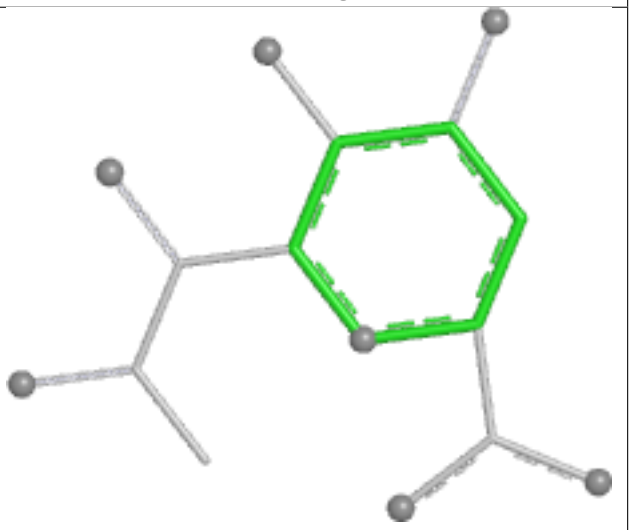
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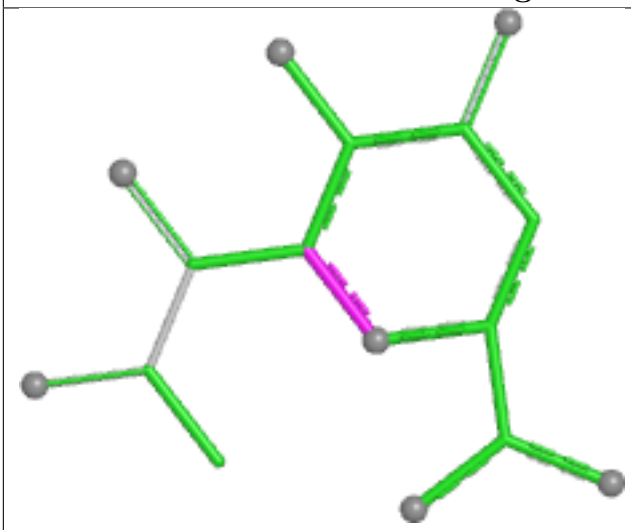


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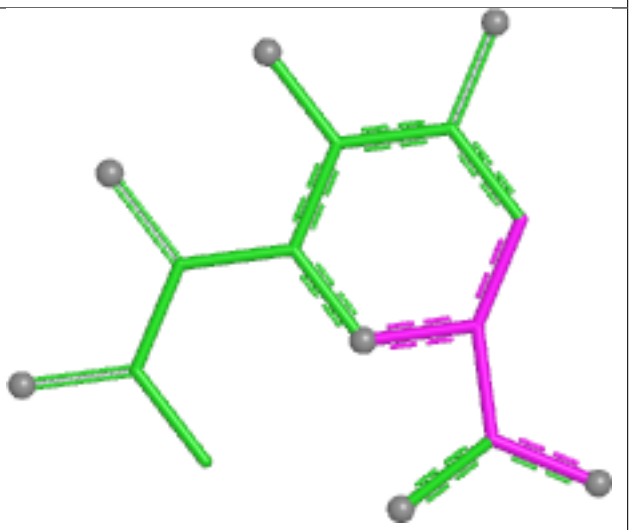


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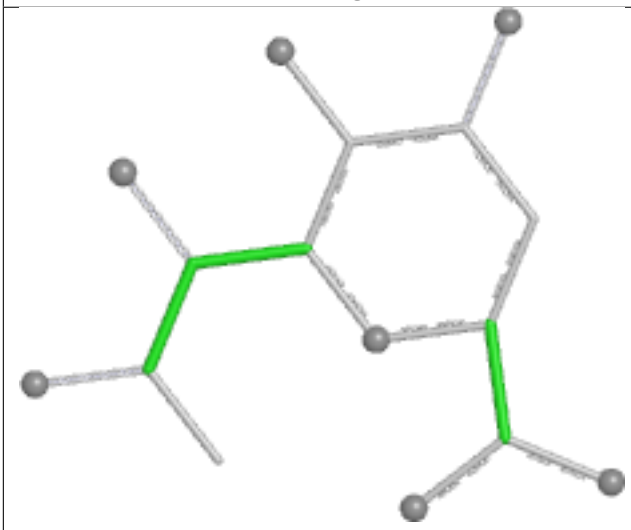
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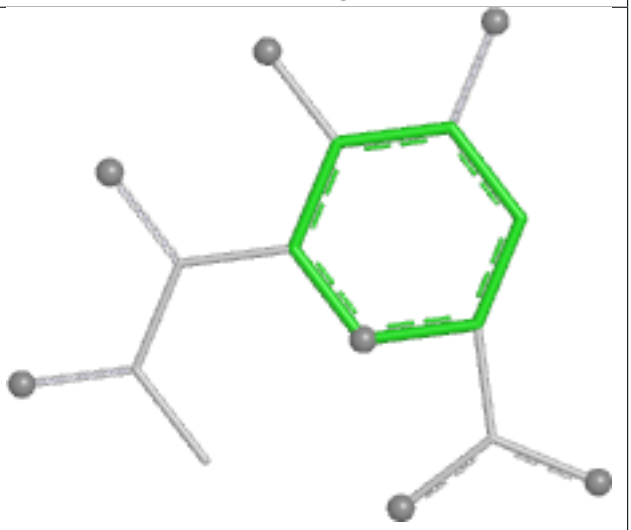
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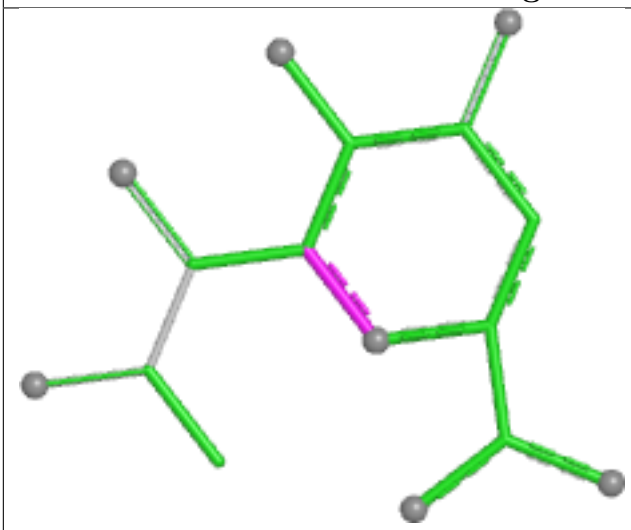


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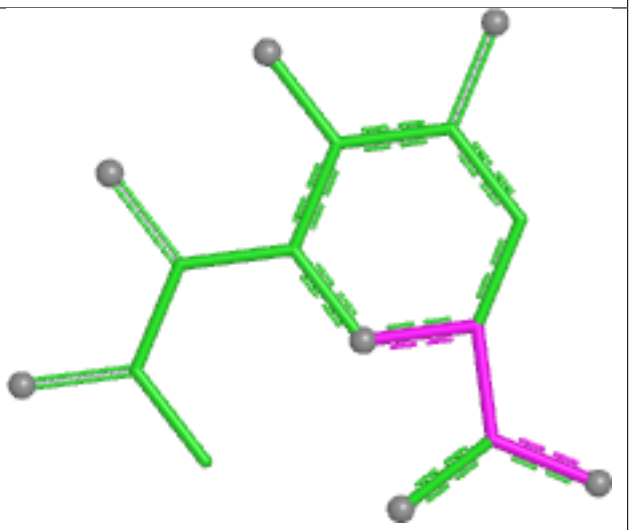


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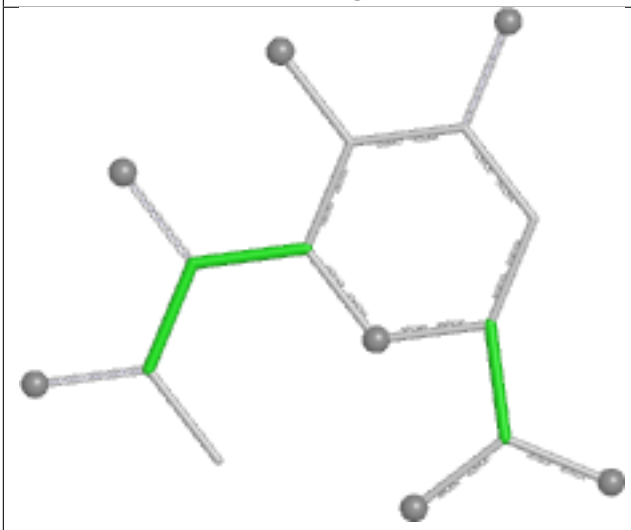
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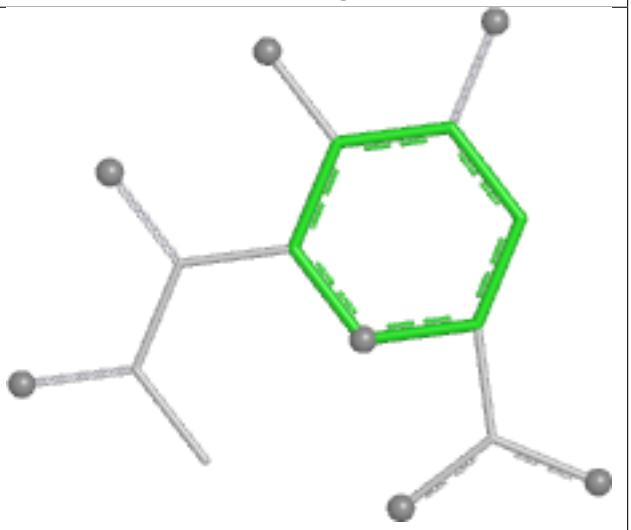
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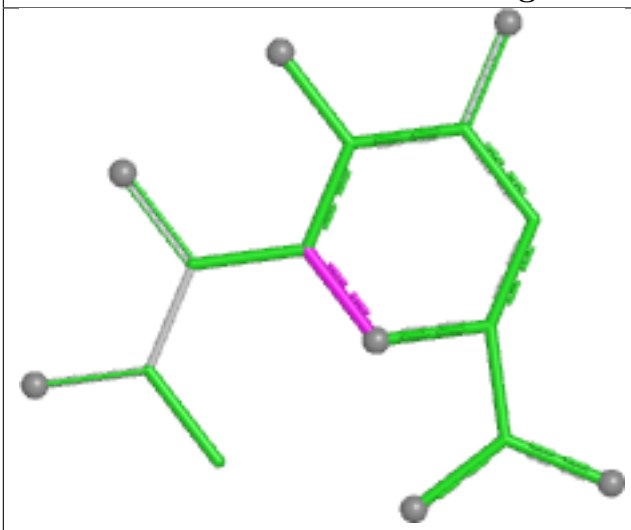


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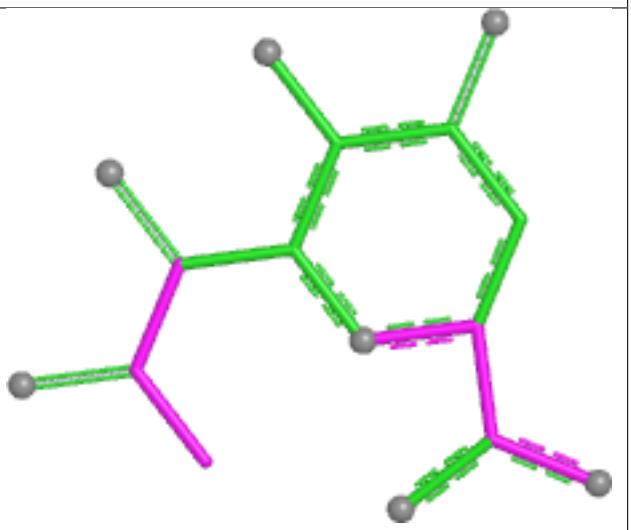


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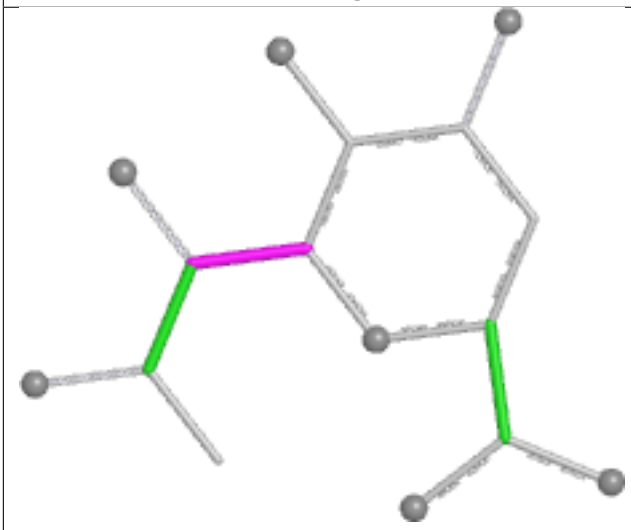
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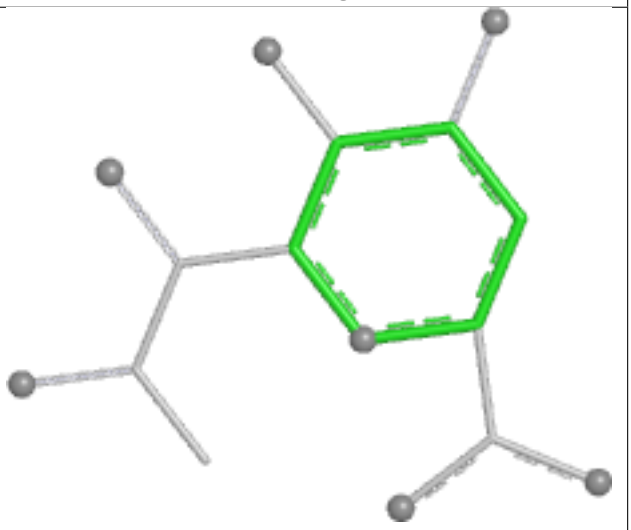
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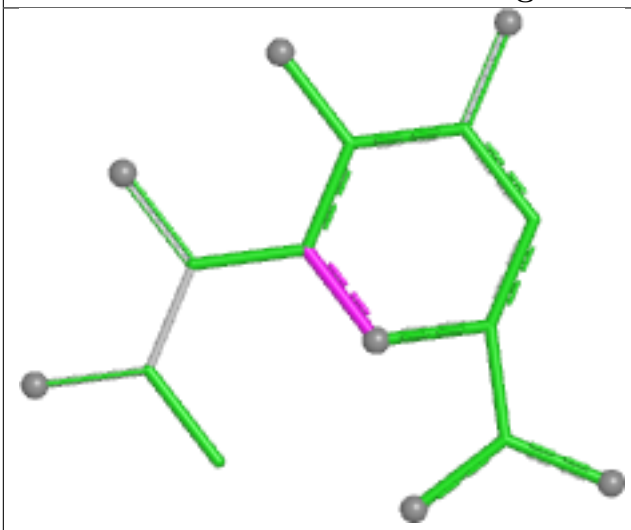


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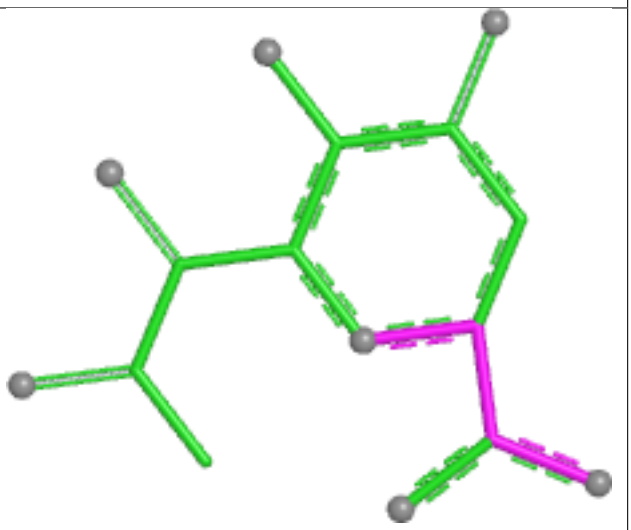


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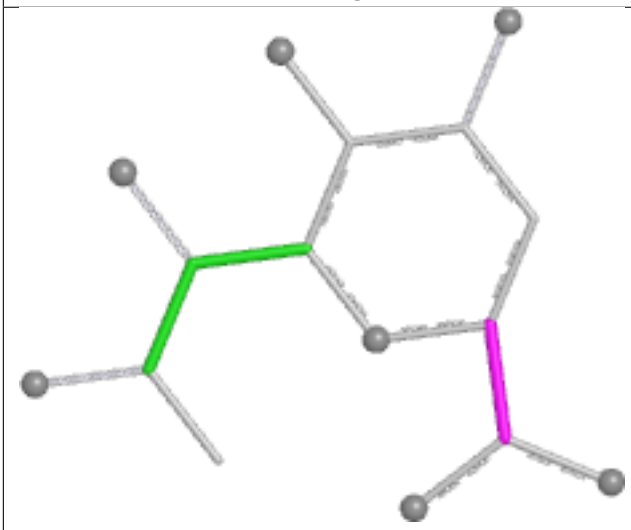
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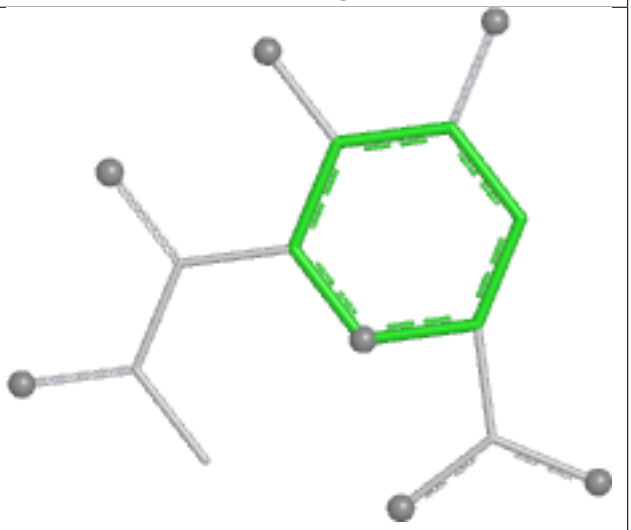
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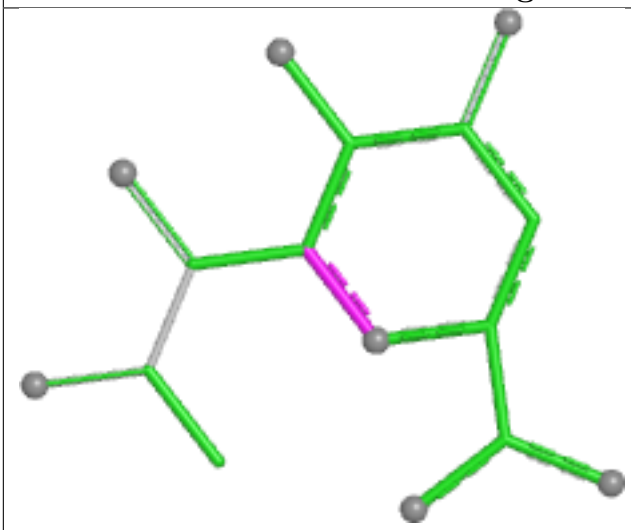


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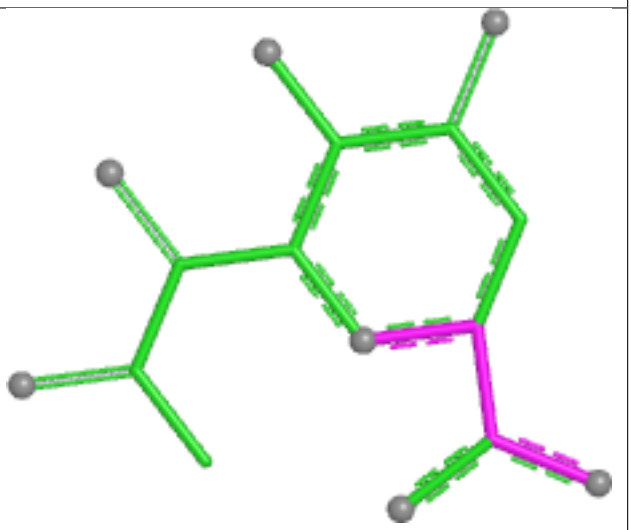


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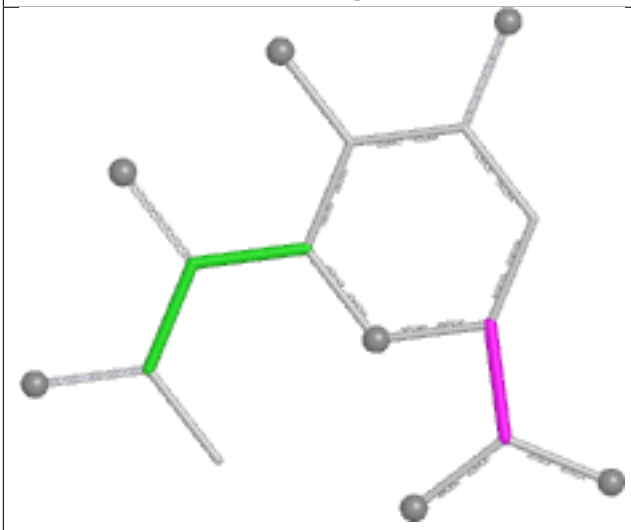
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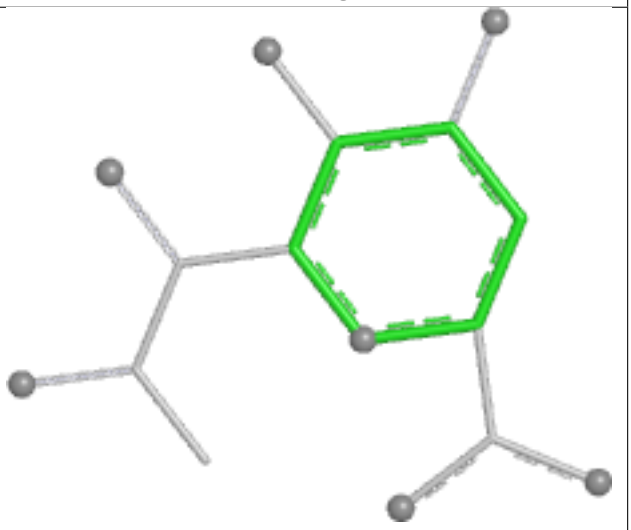
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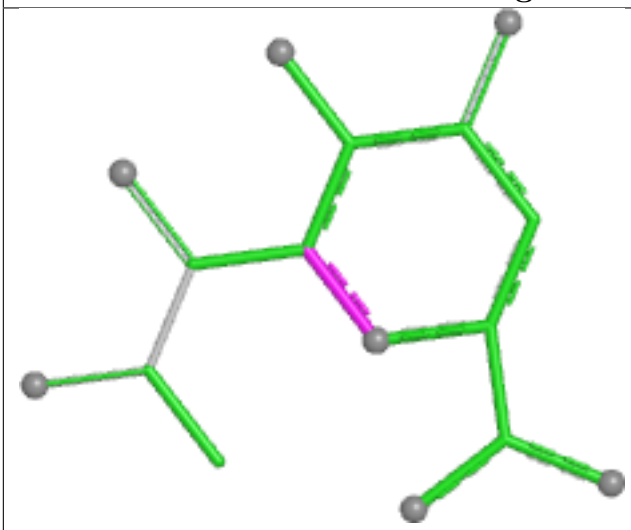


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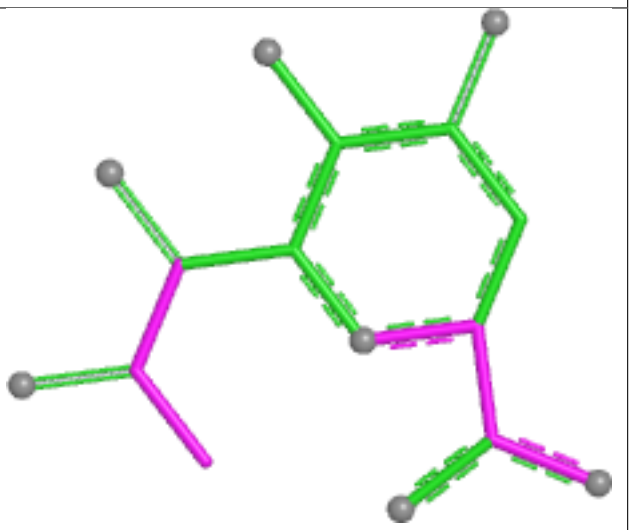


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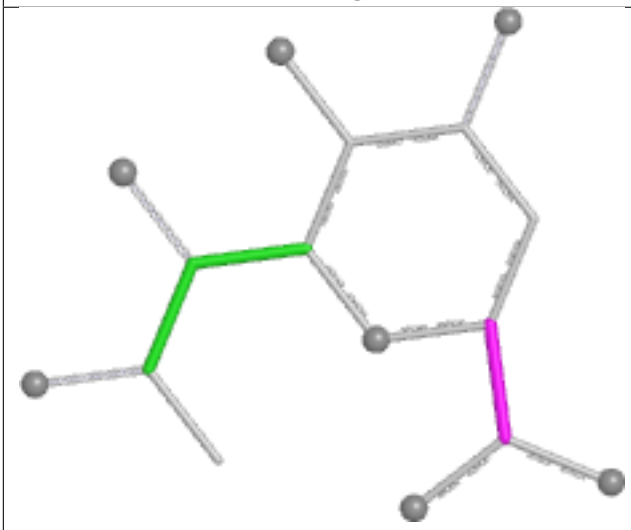
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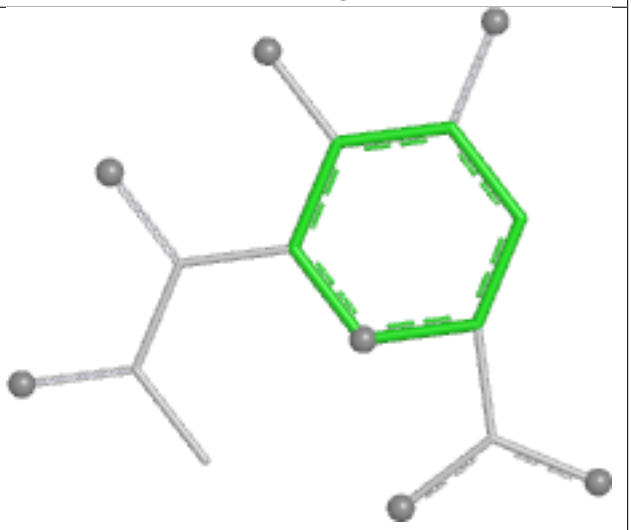
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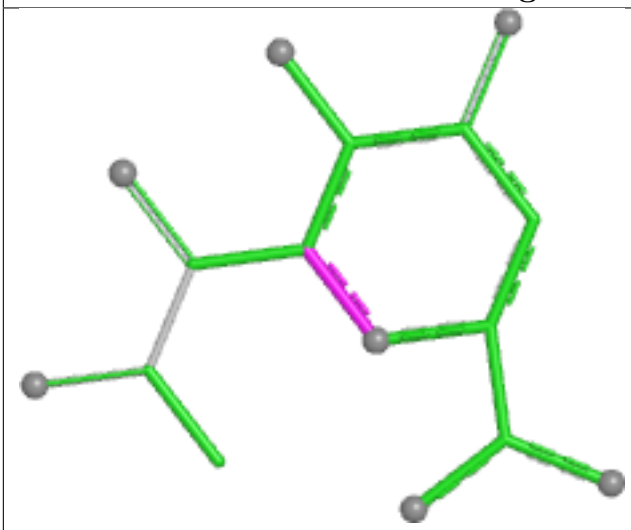


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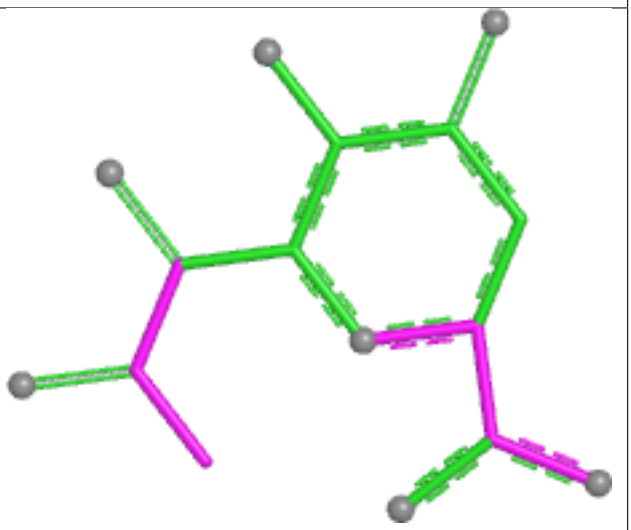


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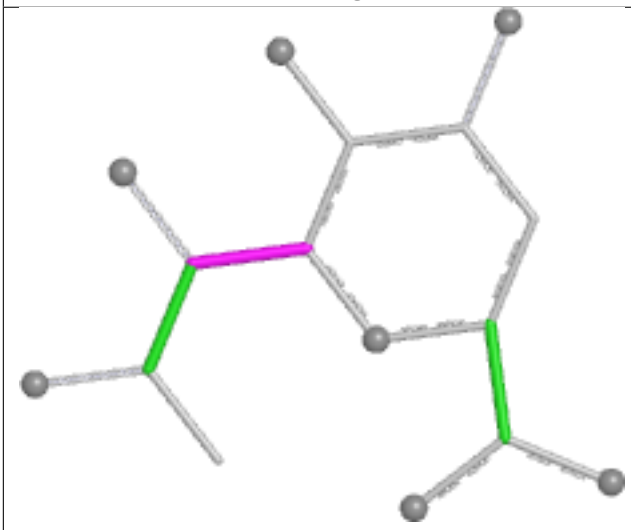
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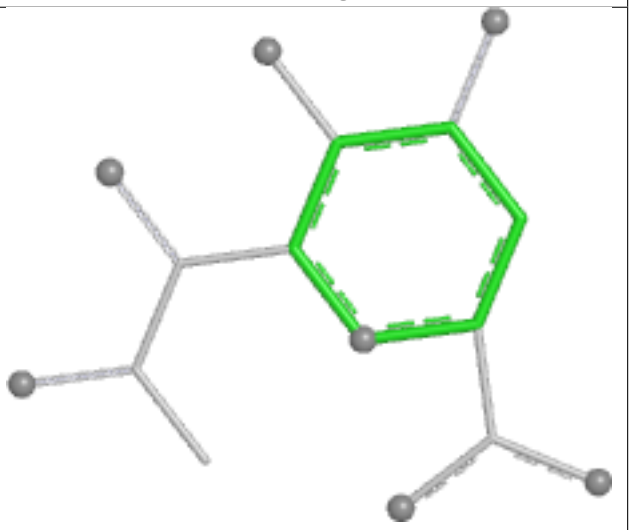
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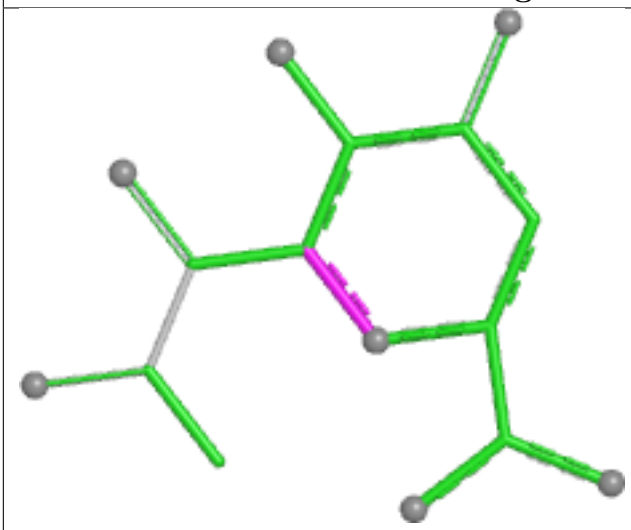


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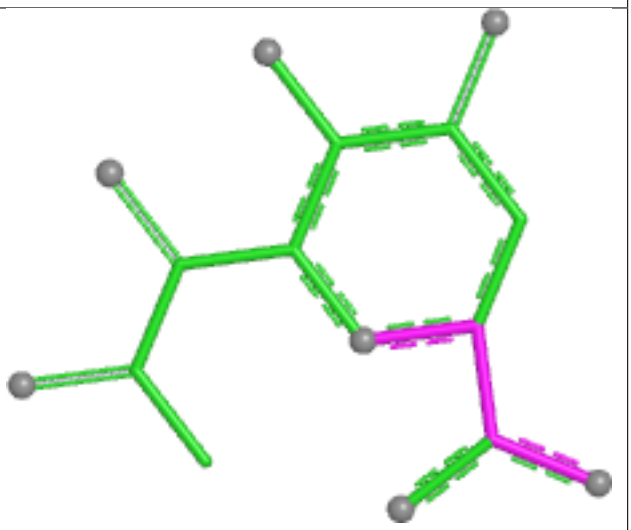


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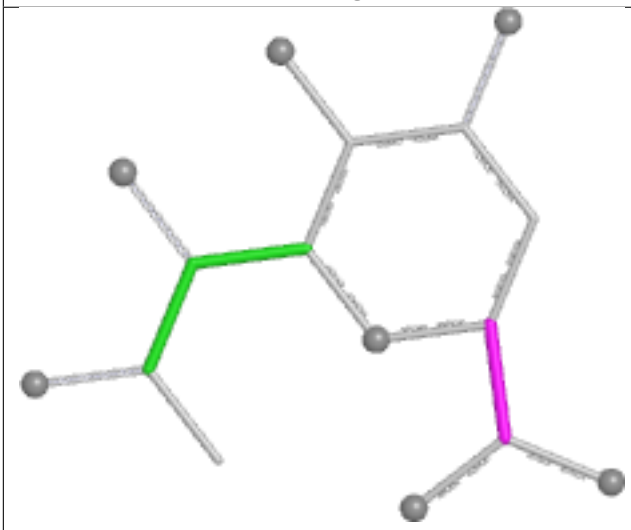
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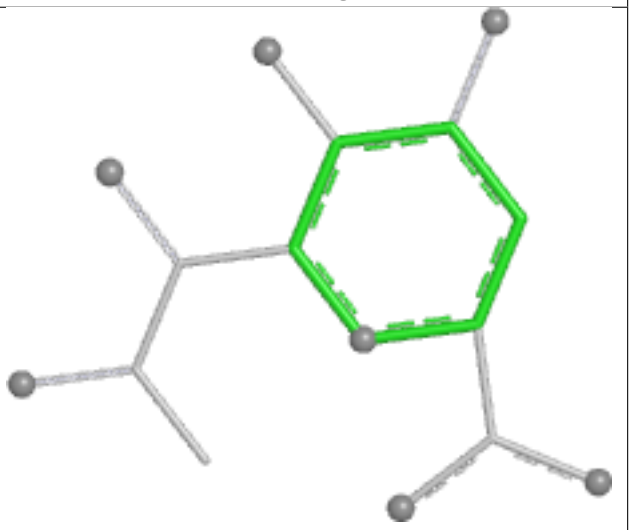
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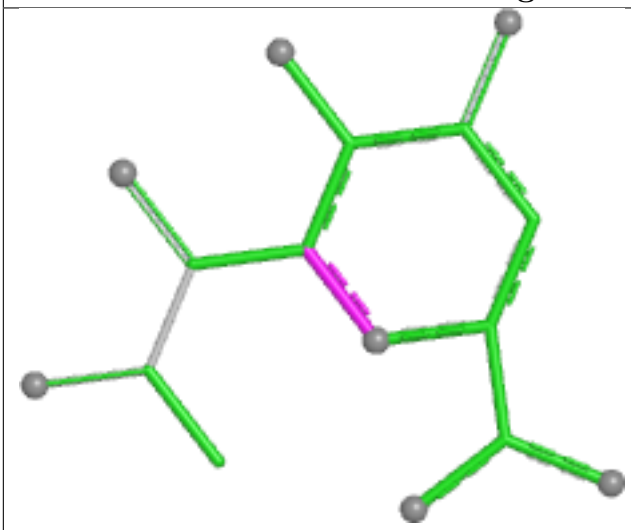


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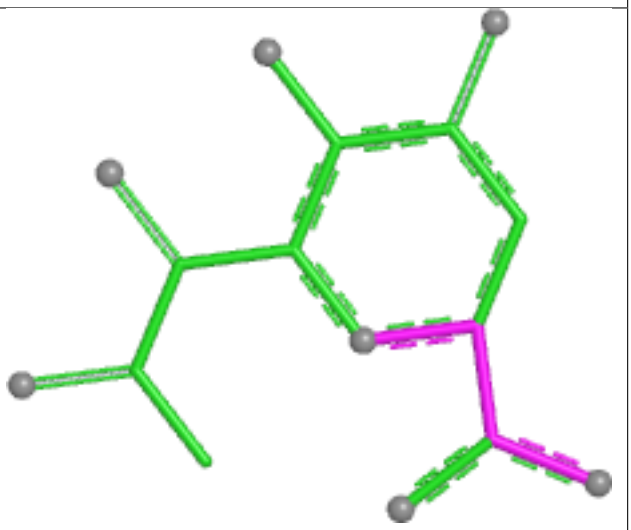


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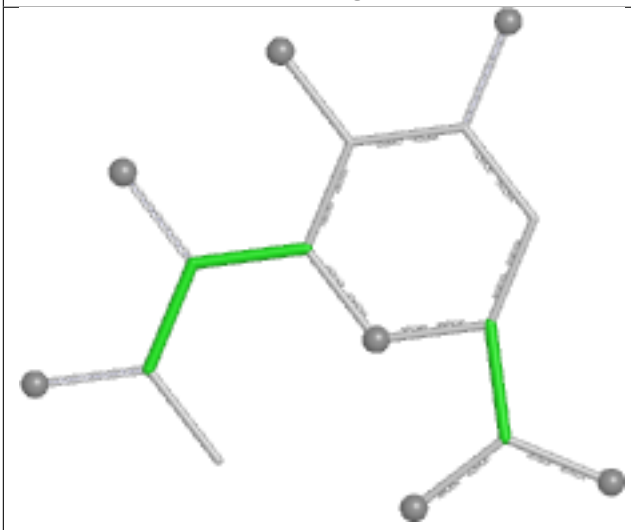
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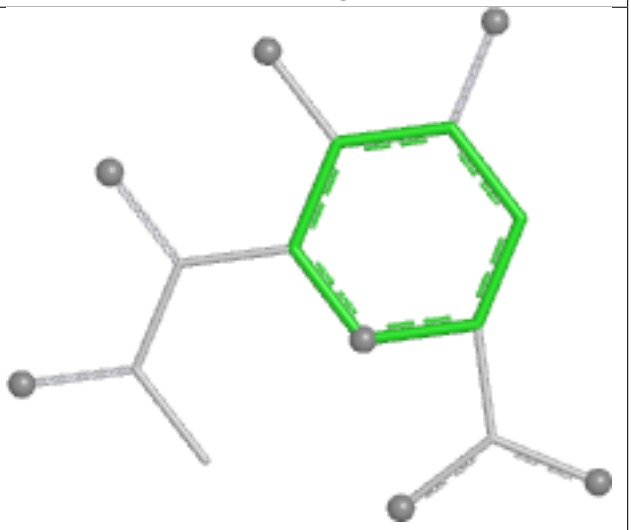
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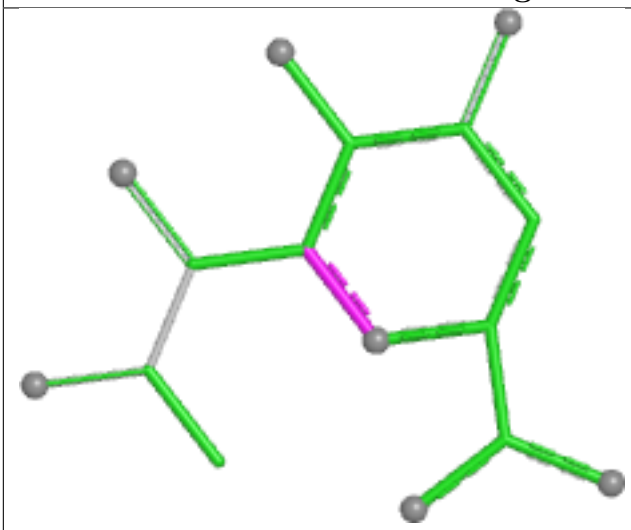


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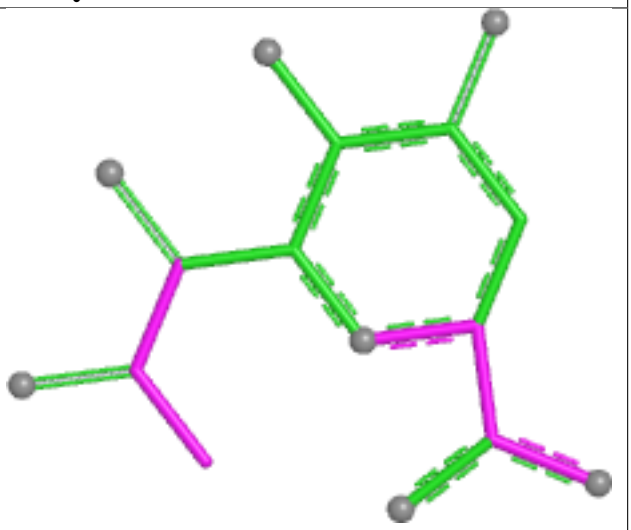


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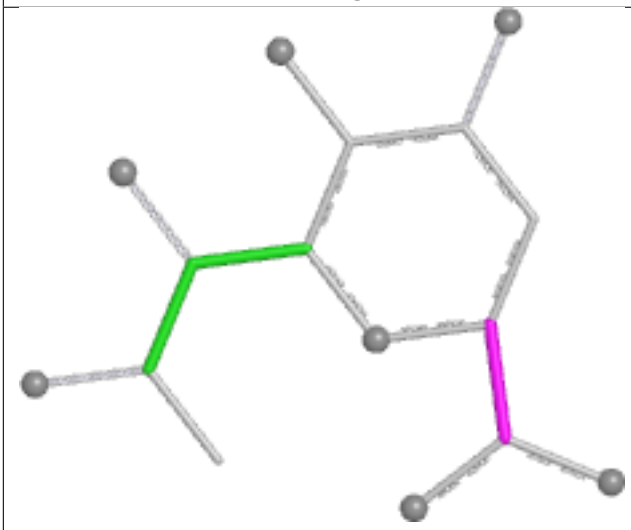
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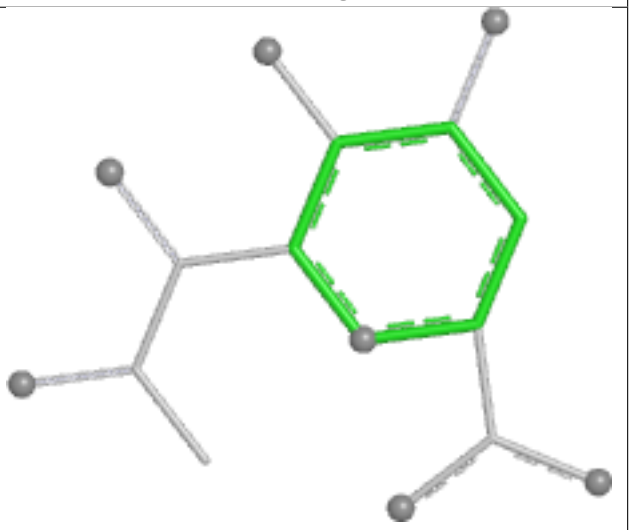
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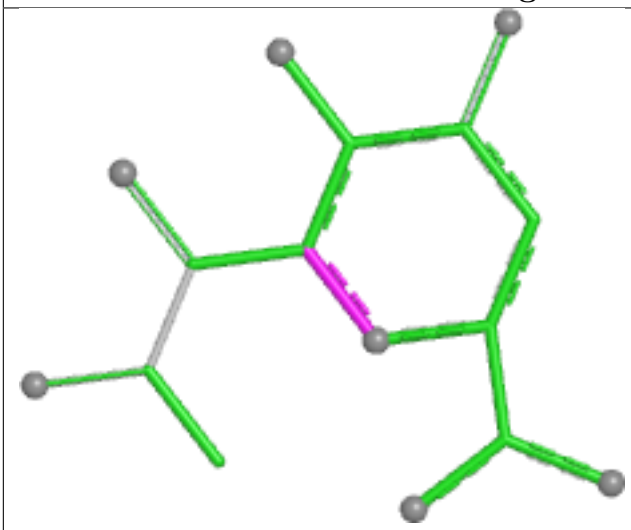


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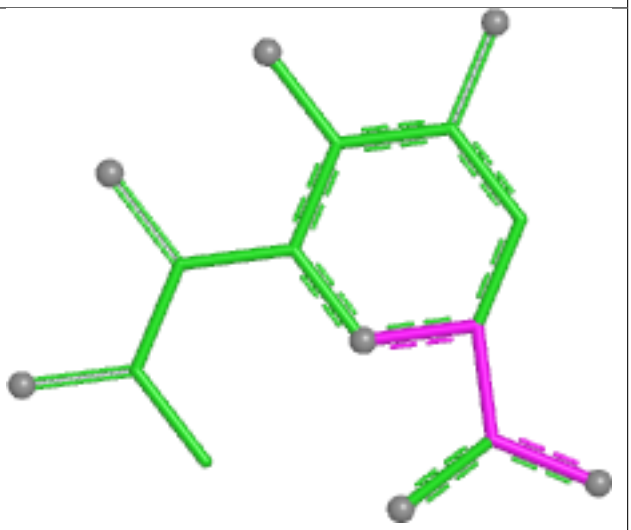


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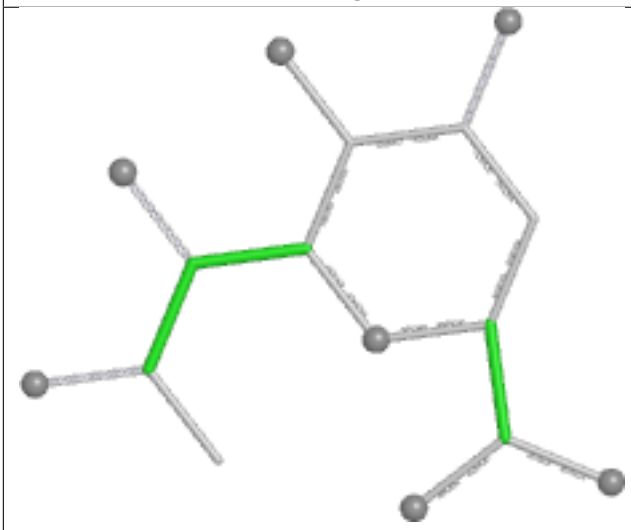
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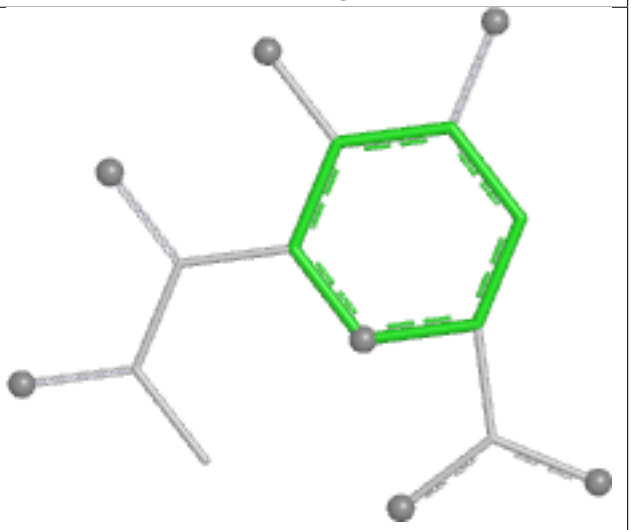
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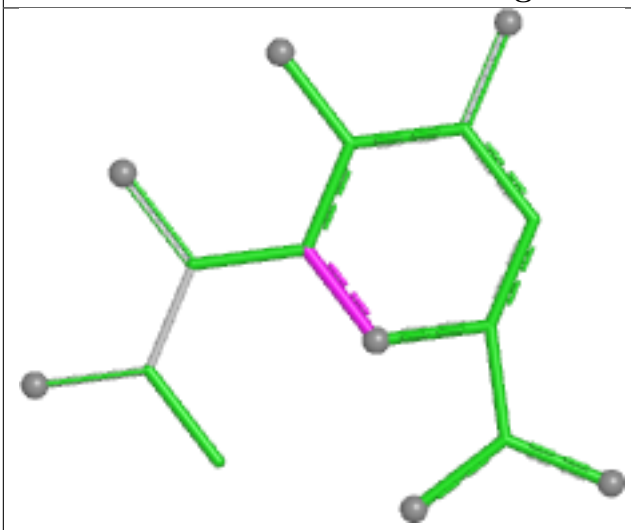


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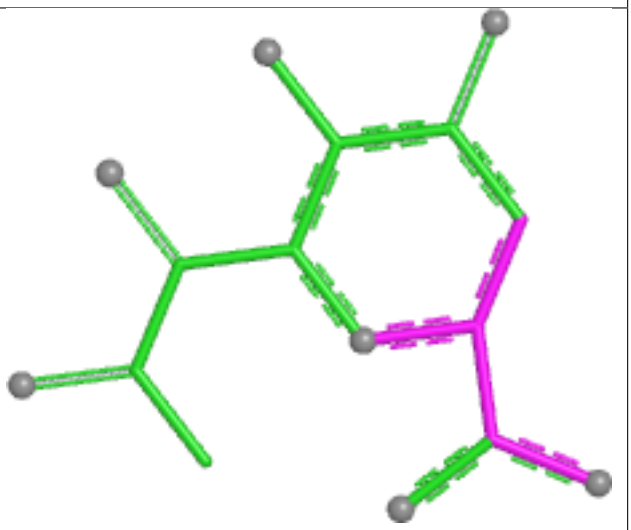


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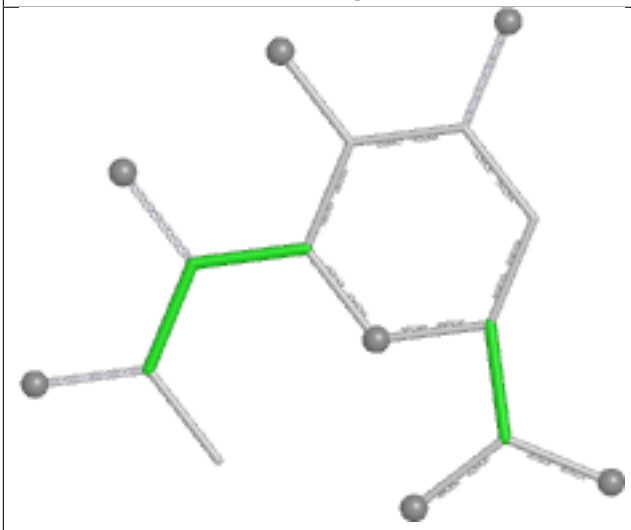
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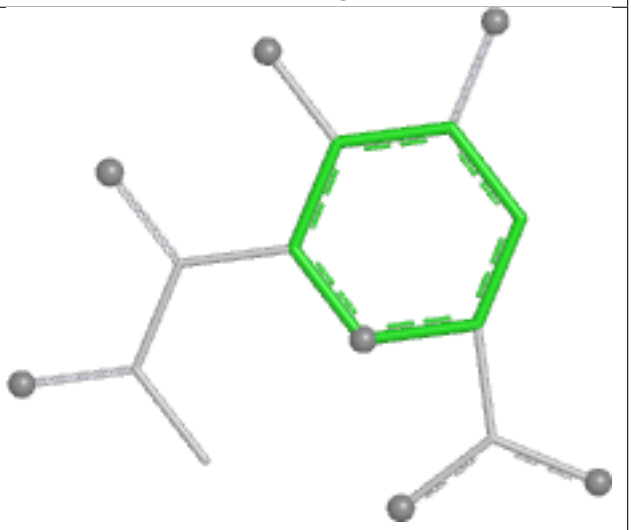
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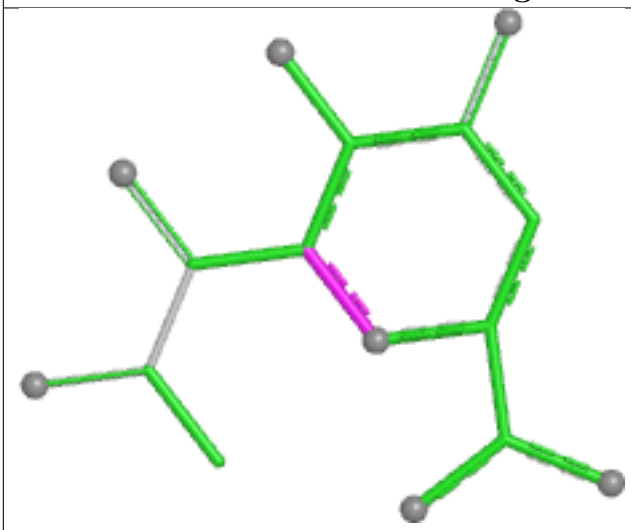


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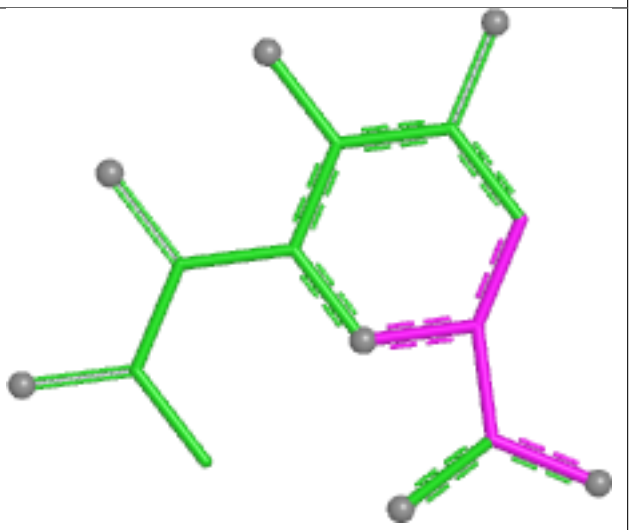


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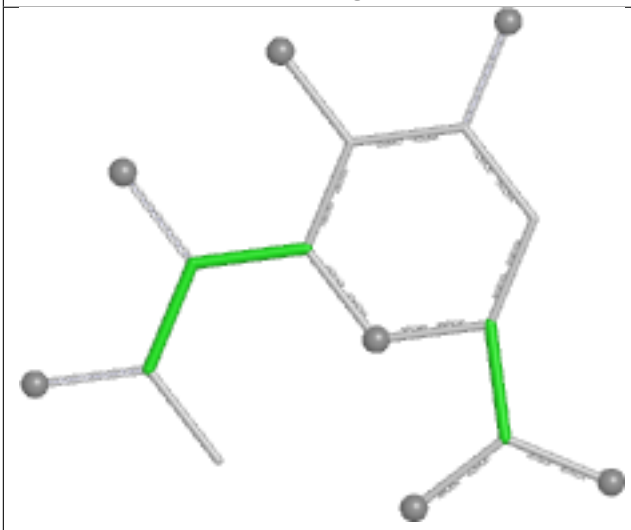
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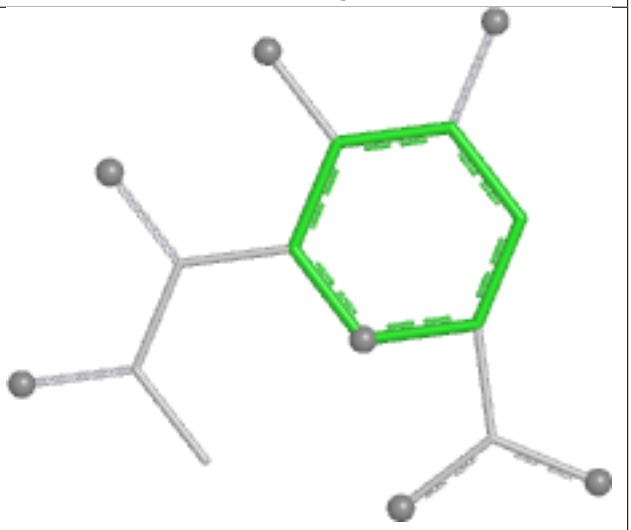
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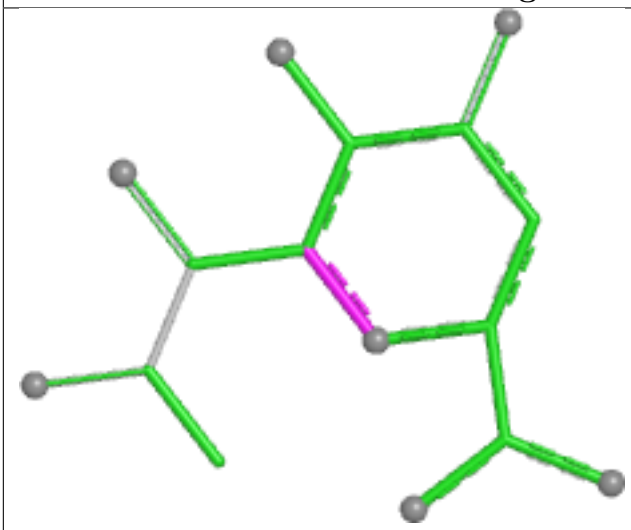


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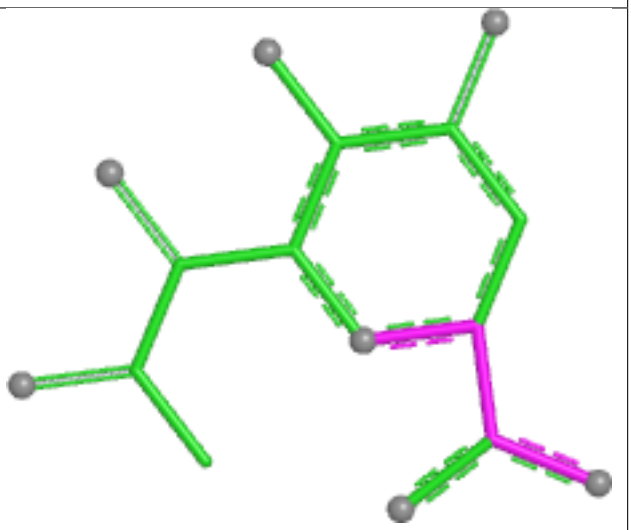


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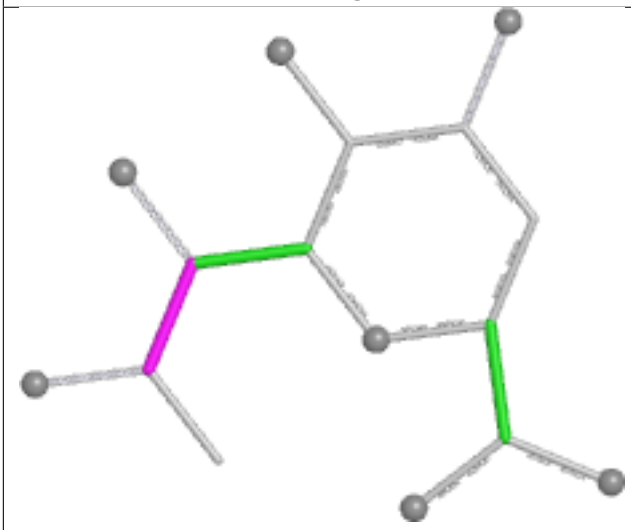
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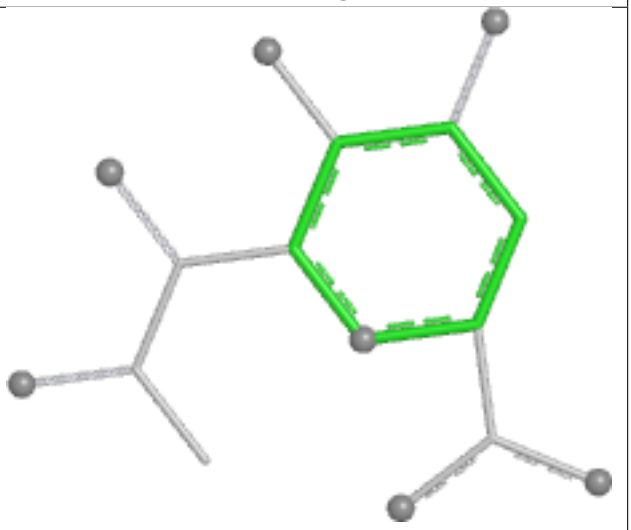
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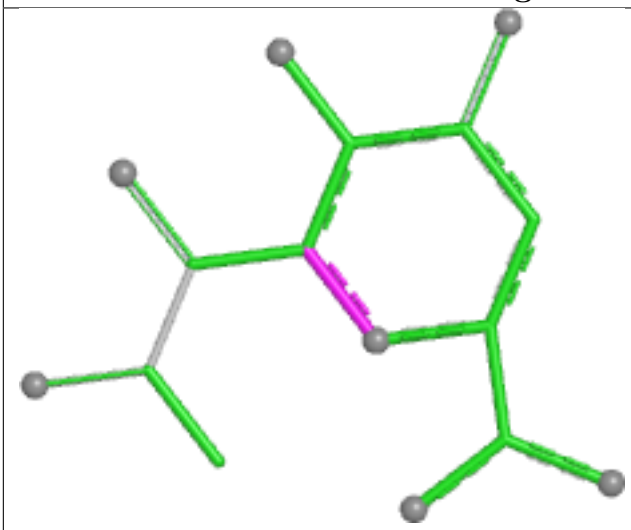


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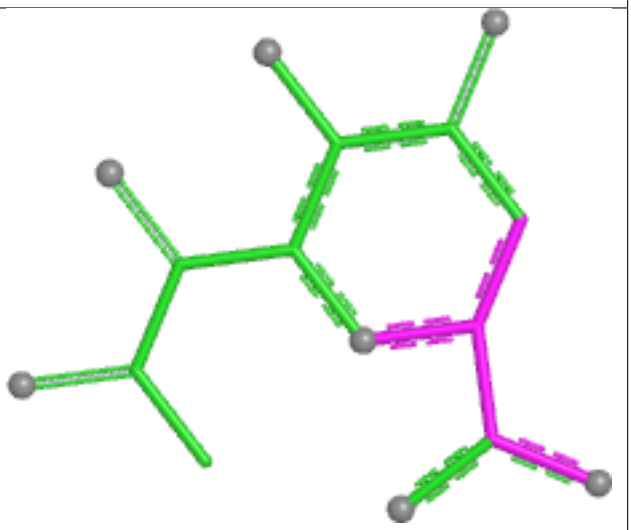


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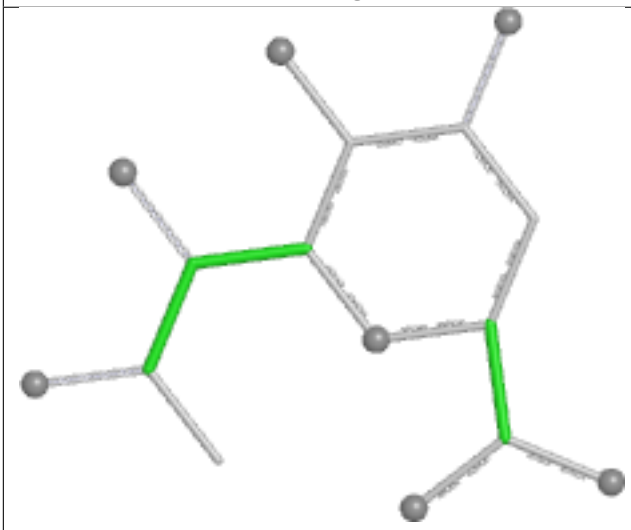
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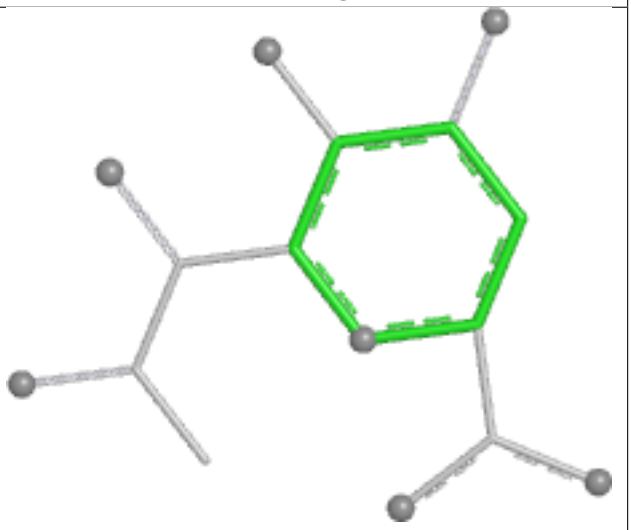
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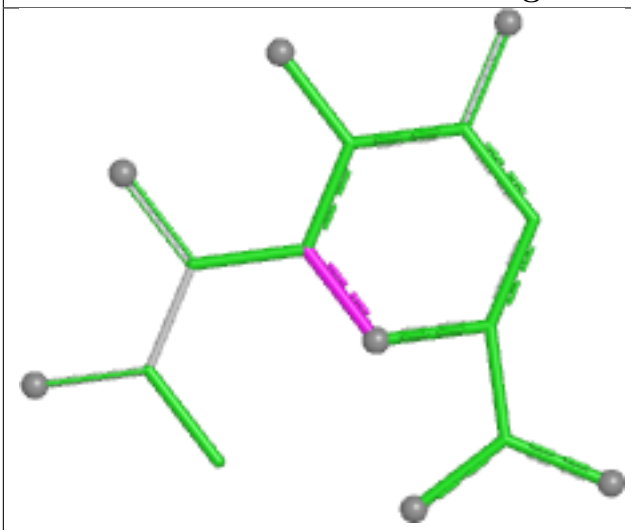


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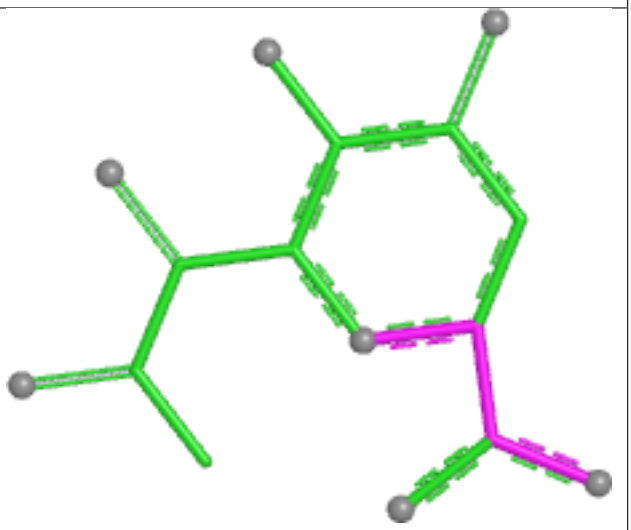


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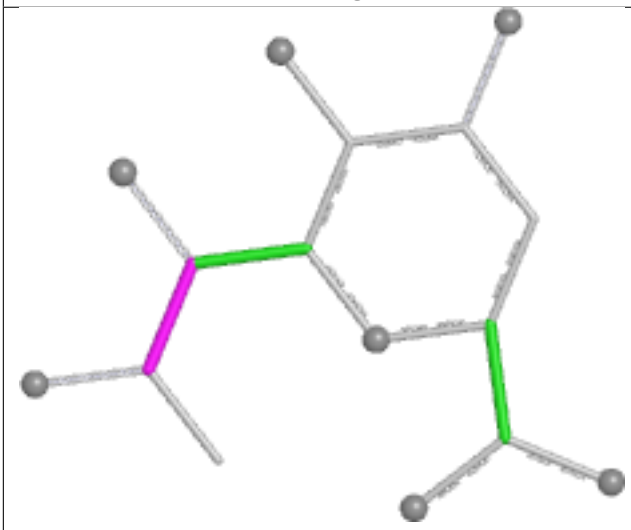
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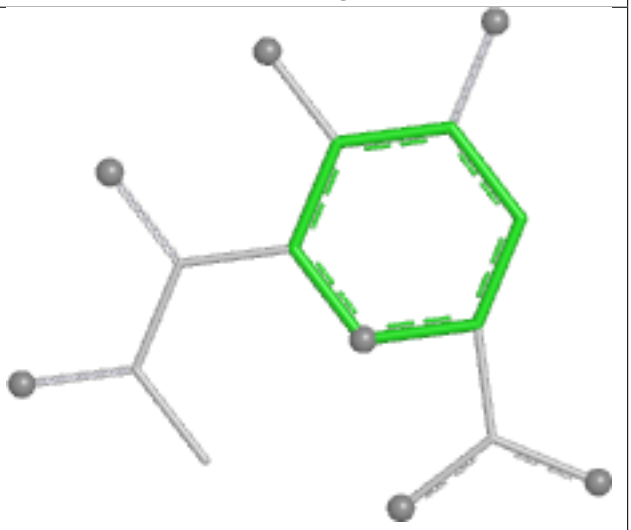
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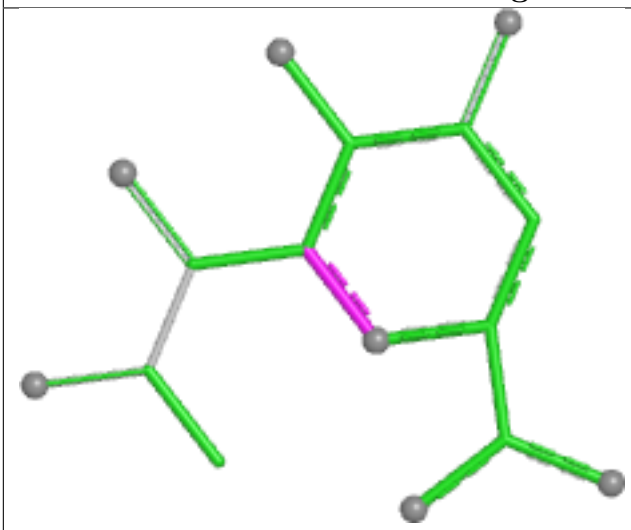


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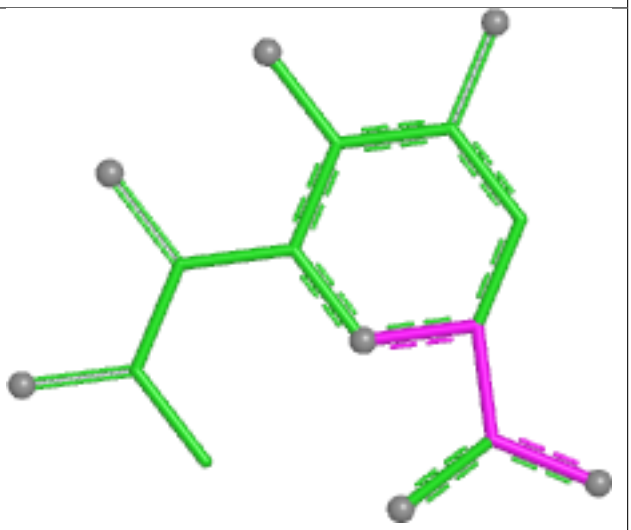


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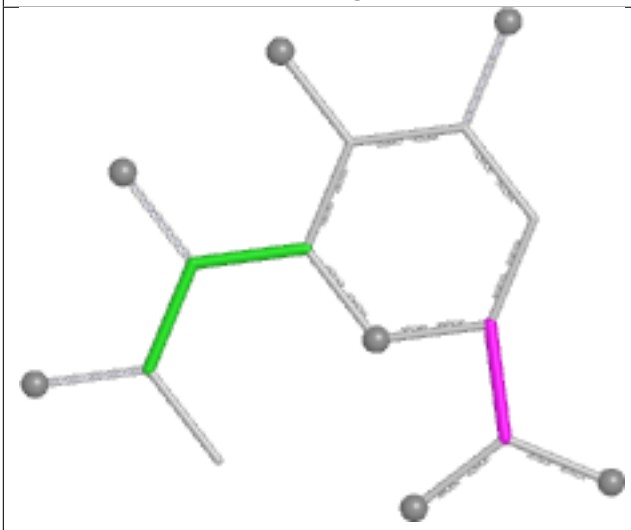
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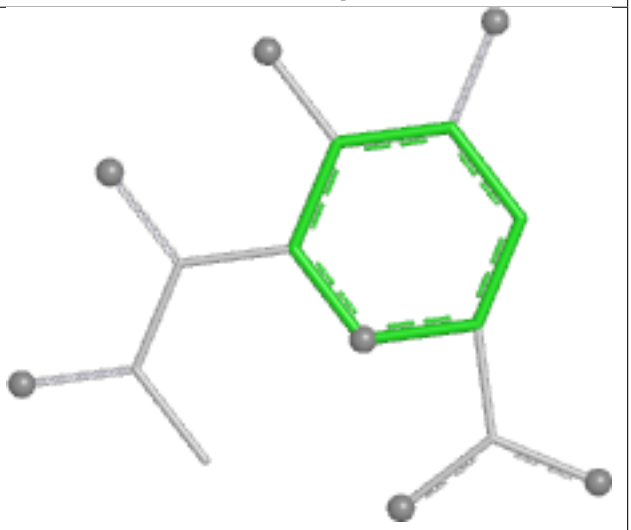
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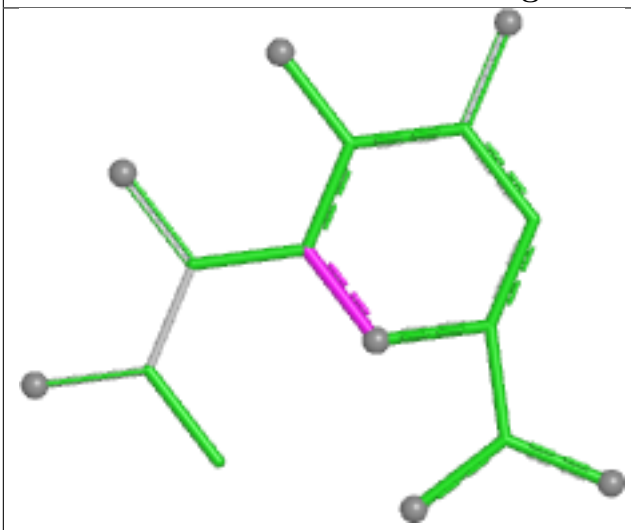


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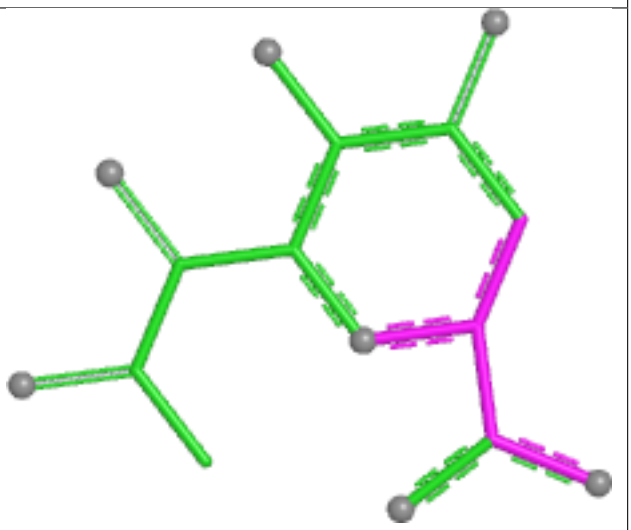


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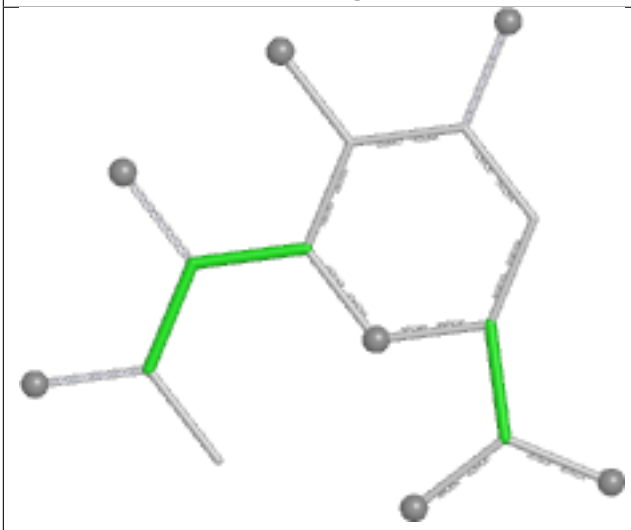
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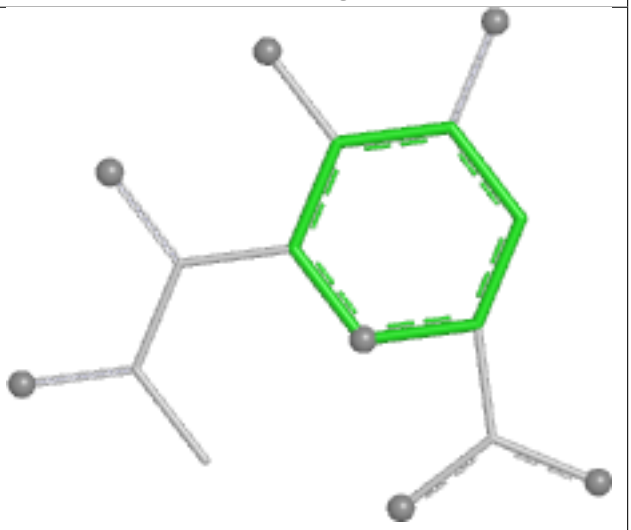
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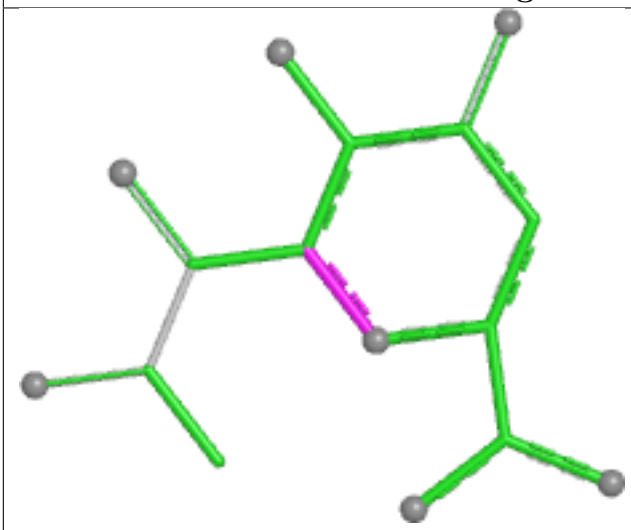


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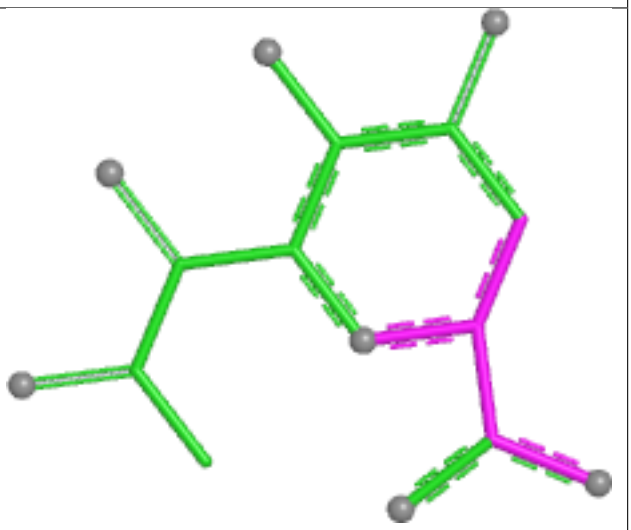


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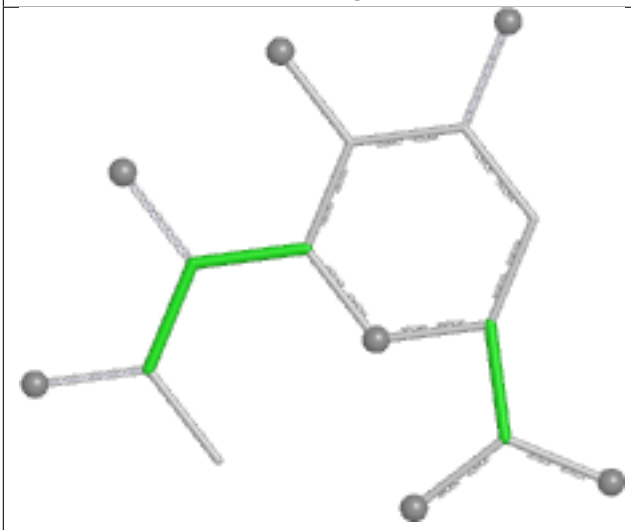
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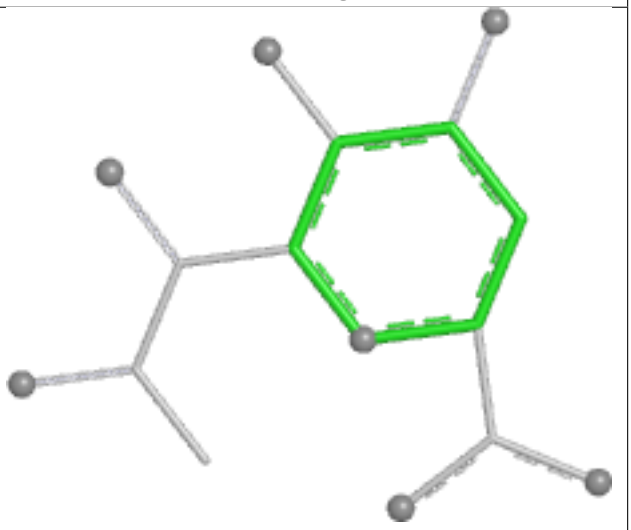
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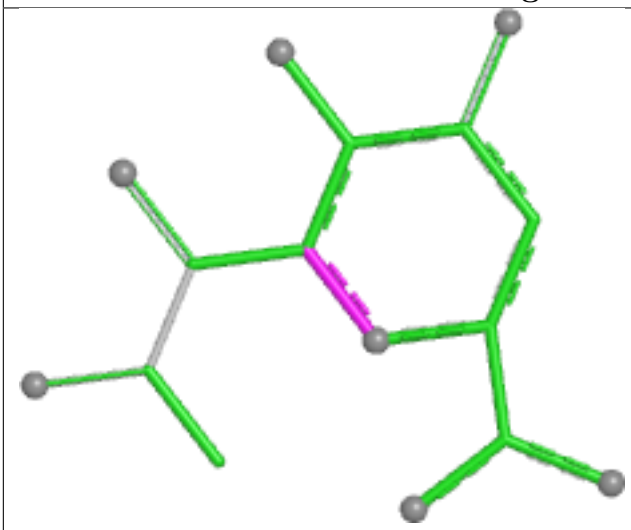


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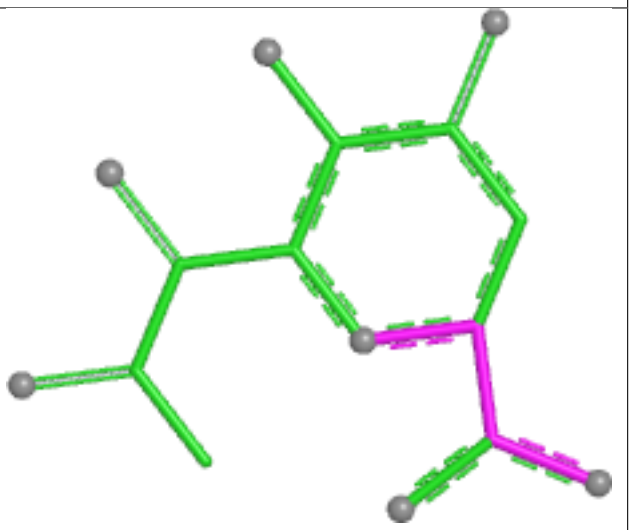


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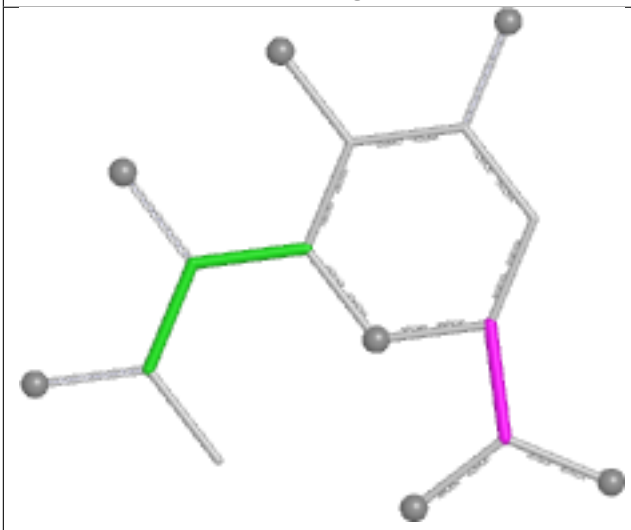
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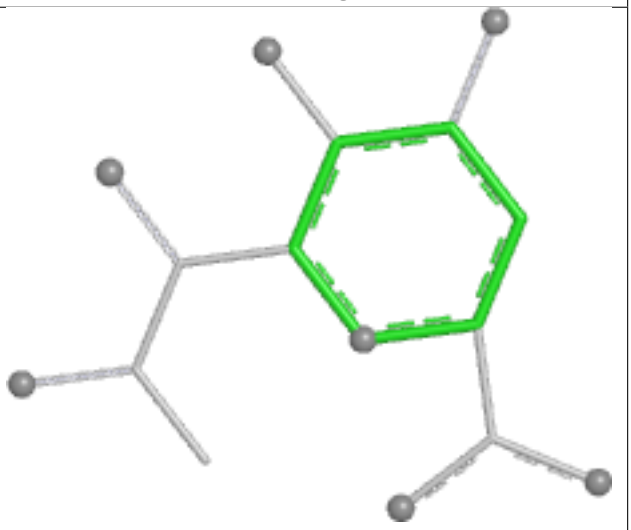
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Bond angles

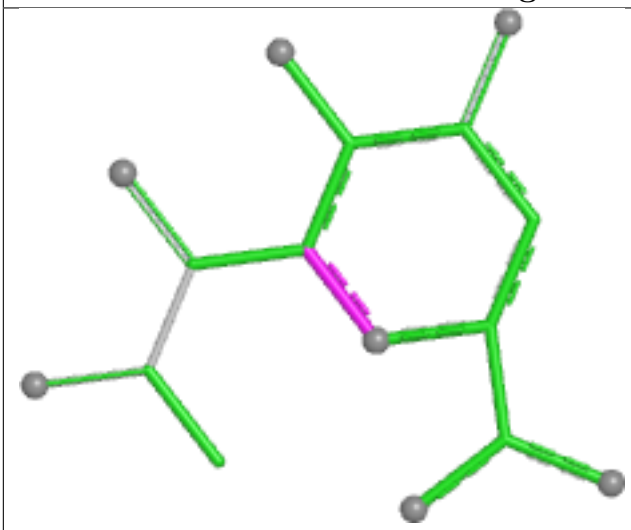


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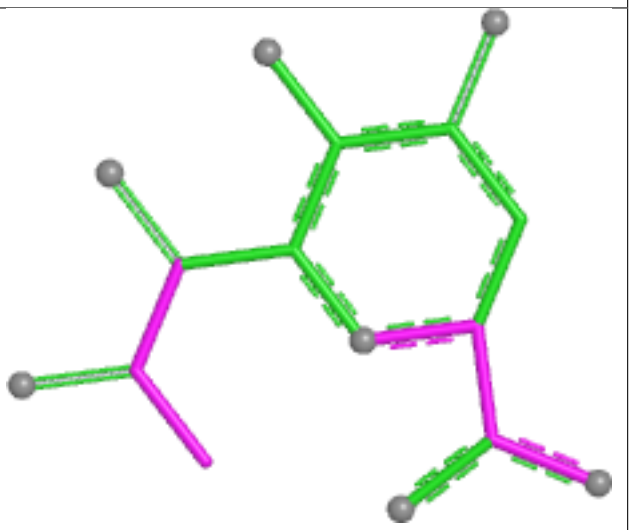


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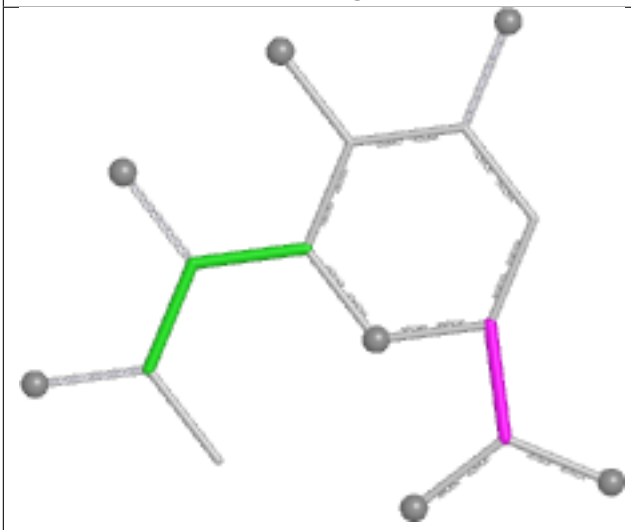
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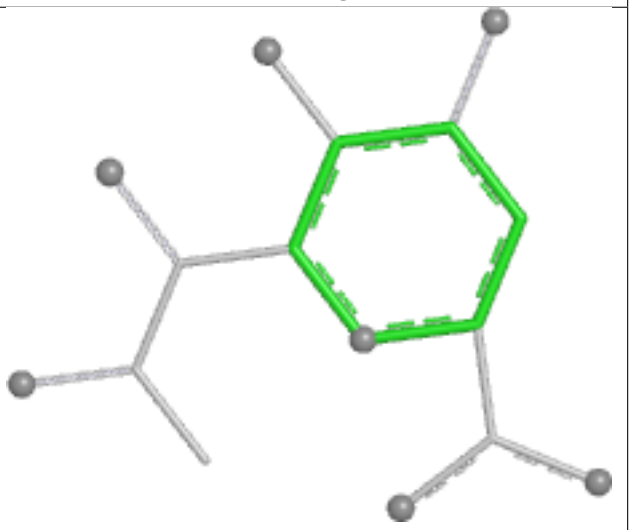
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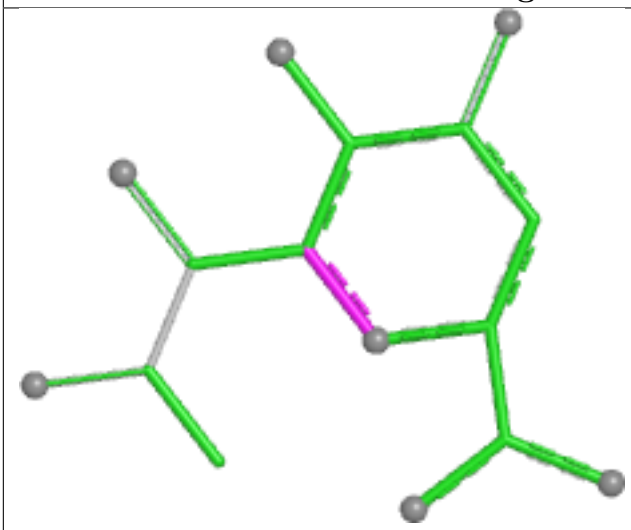


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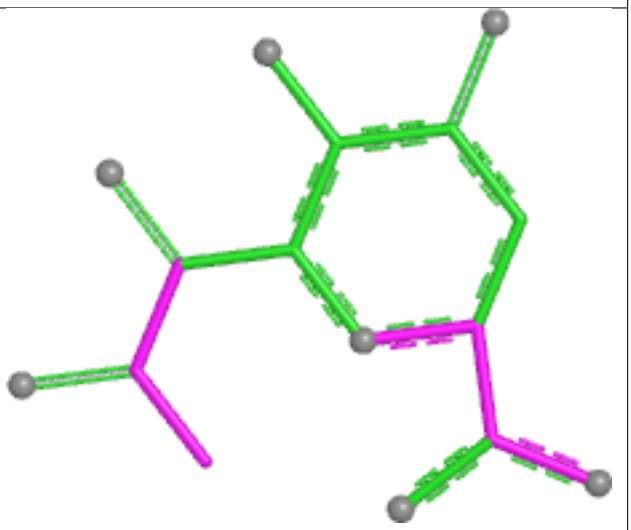


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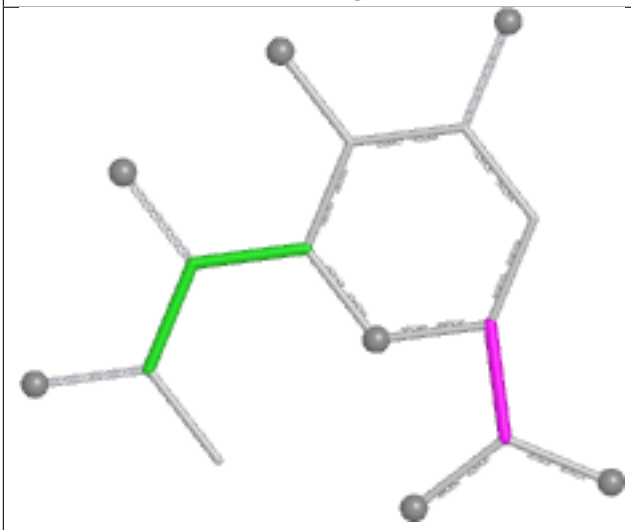
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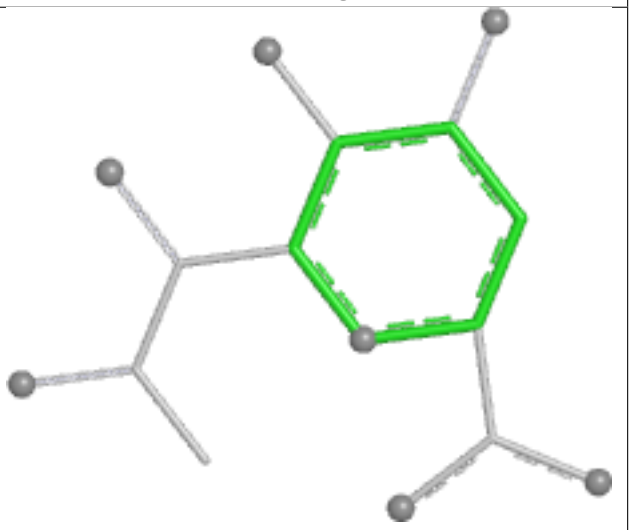
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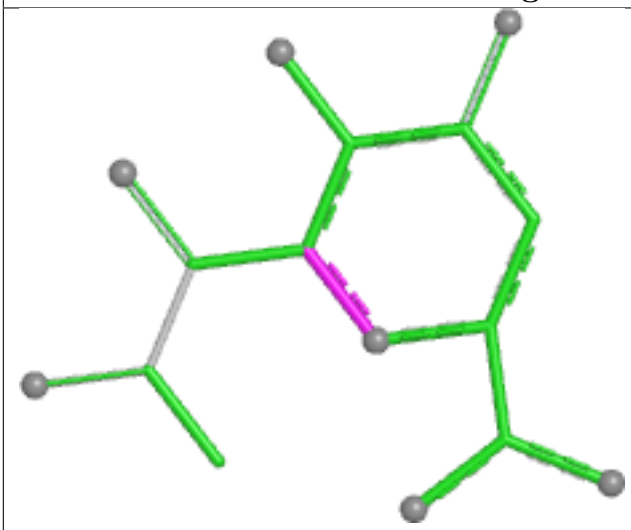


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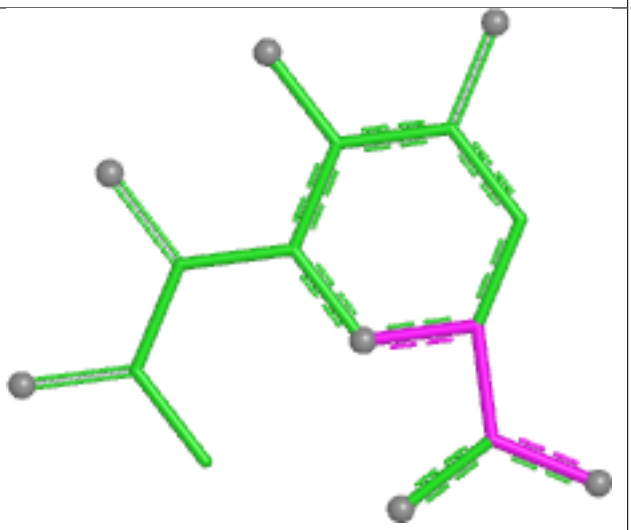


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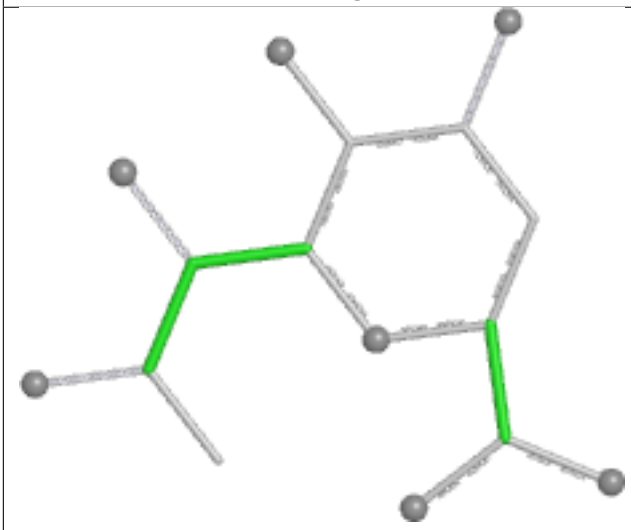
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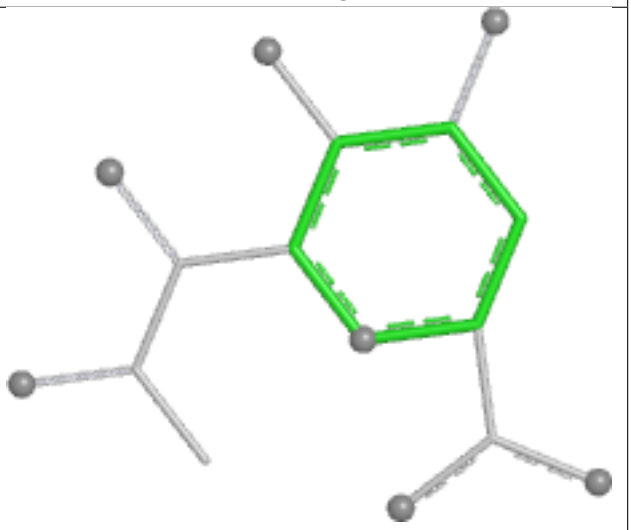
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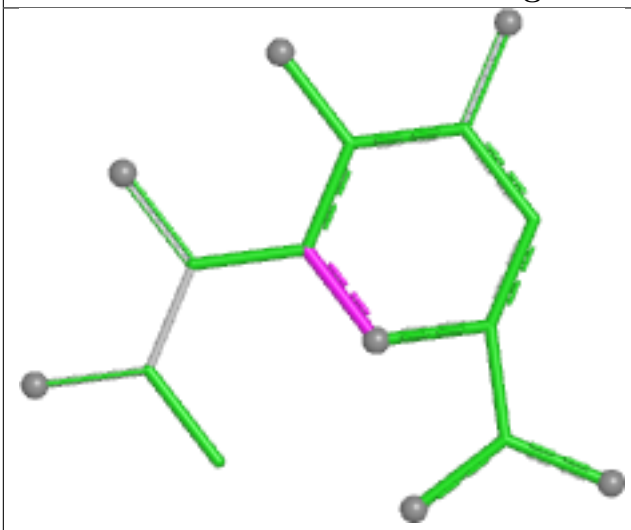


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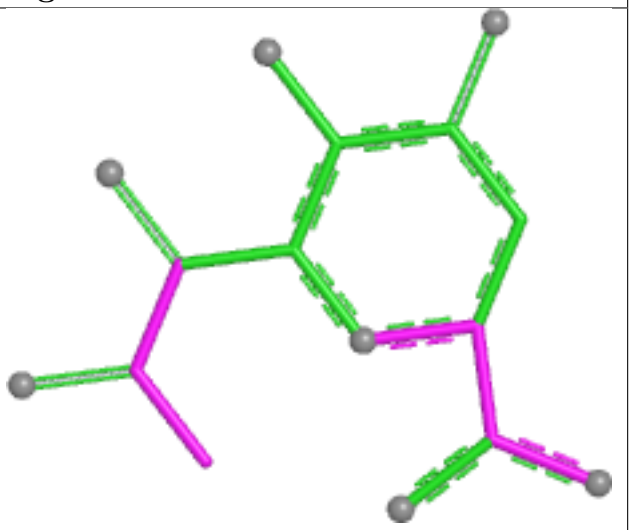


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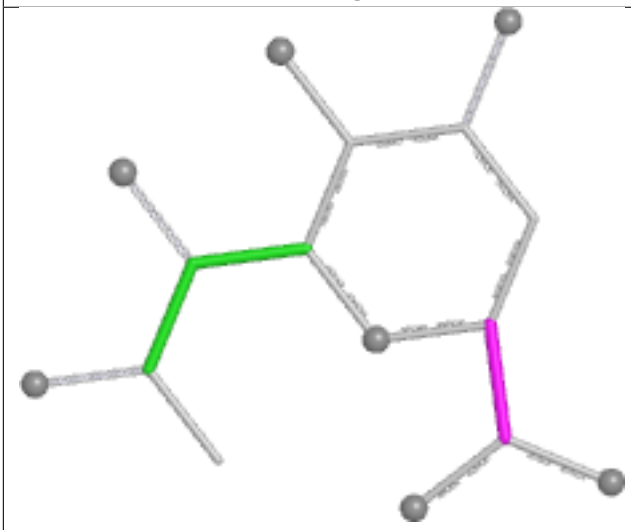
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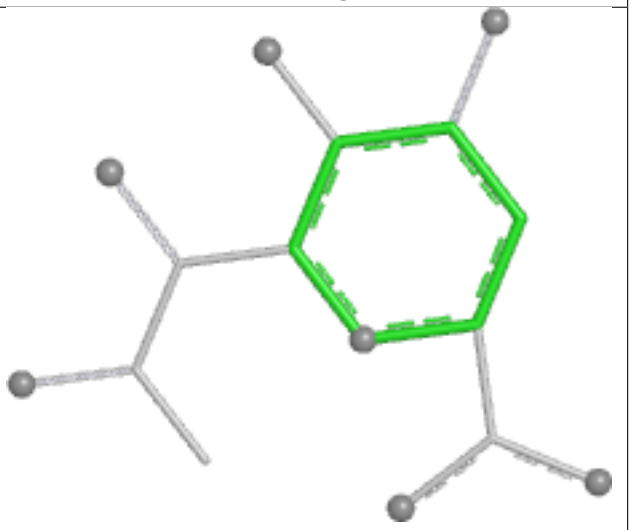
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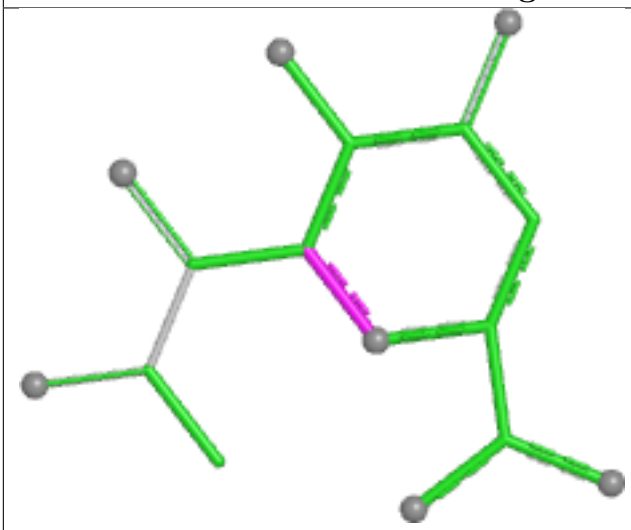


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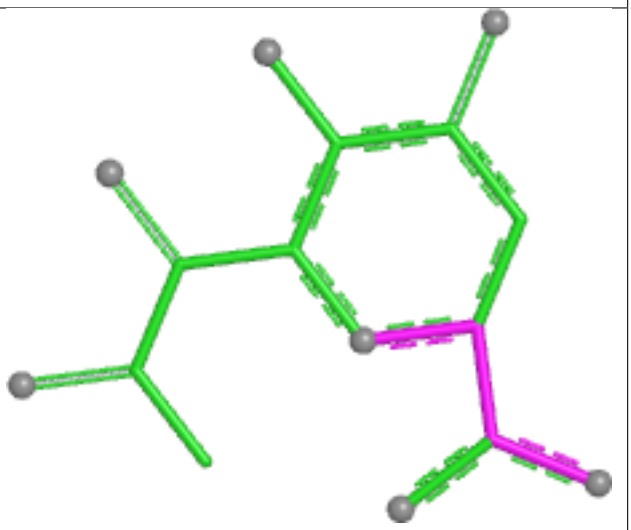


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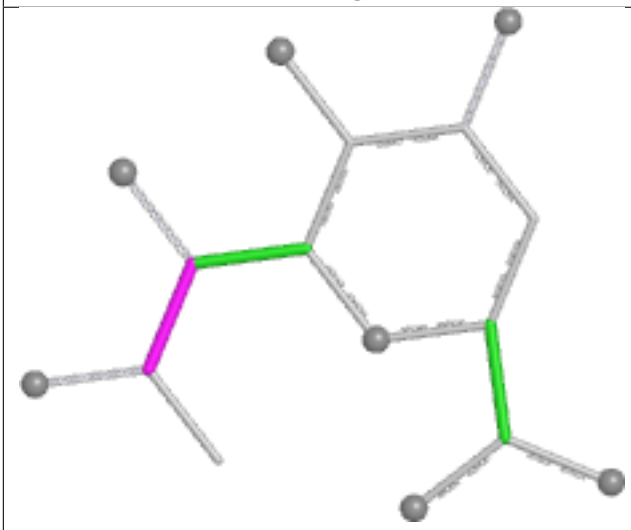
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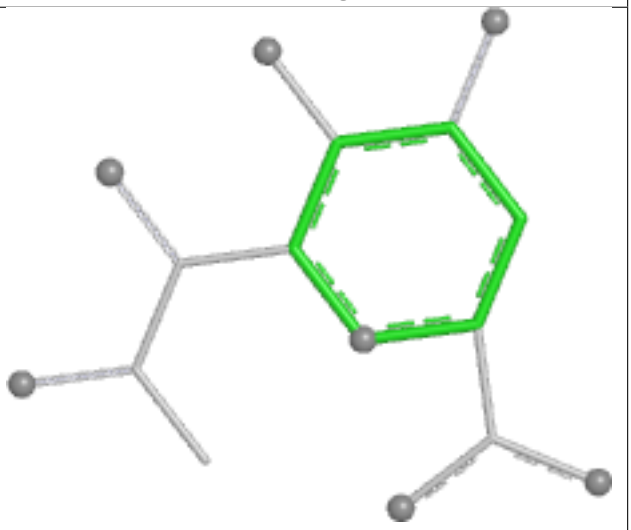
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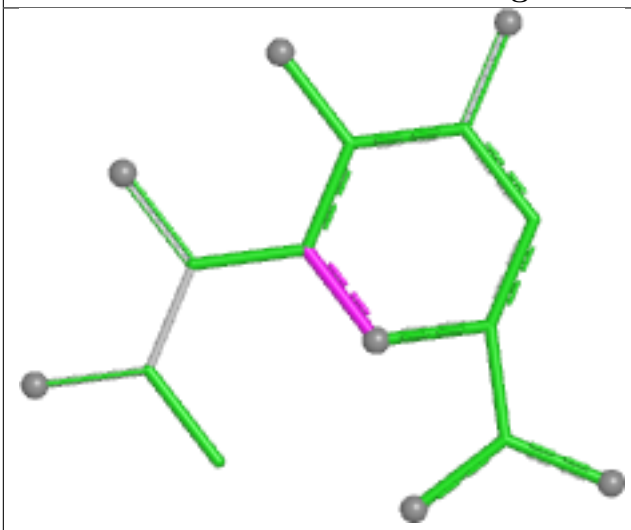


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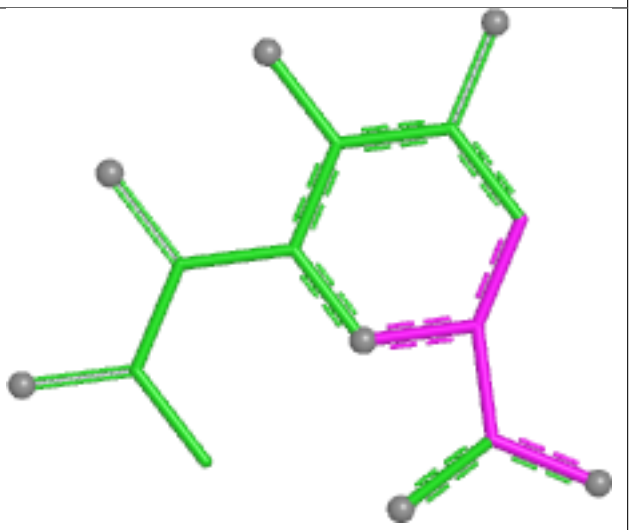


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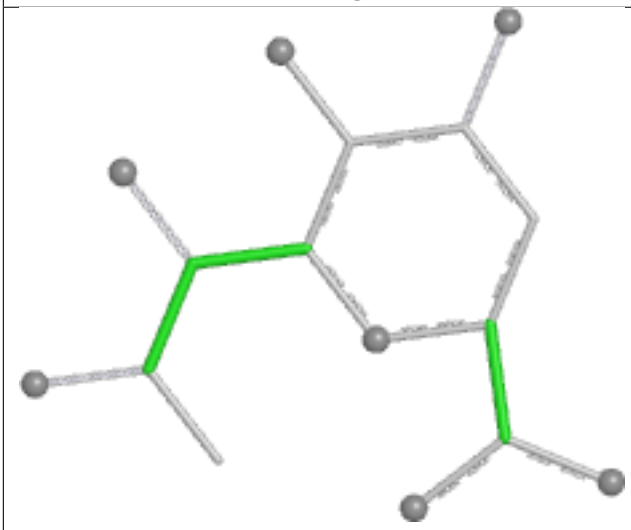
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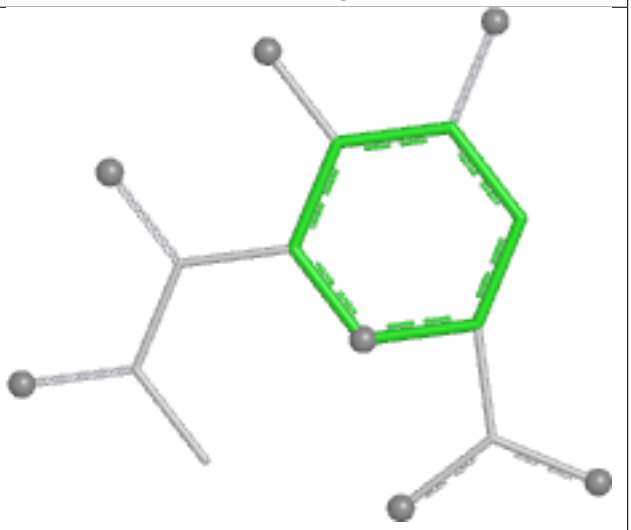
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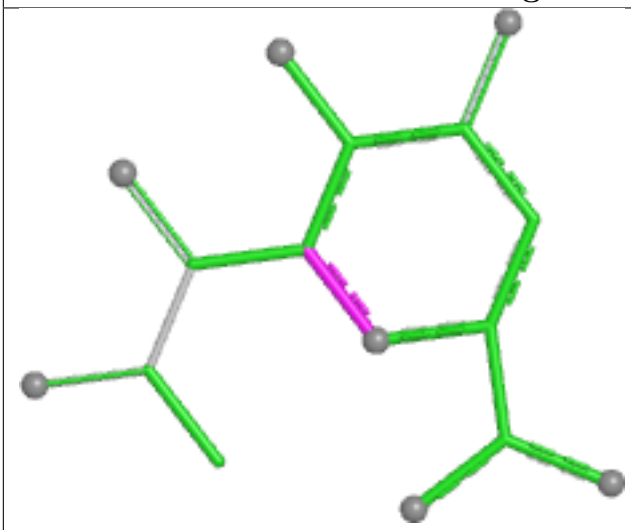


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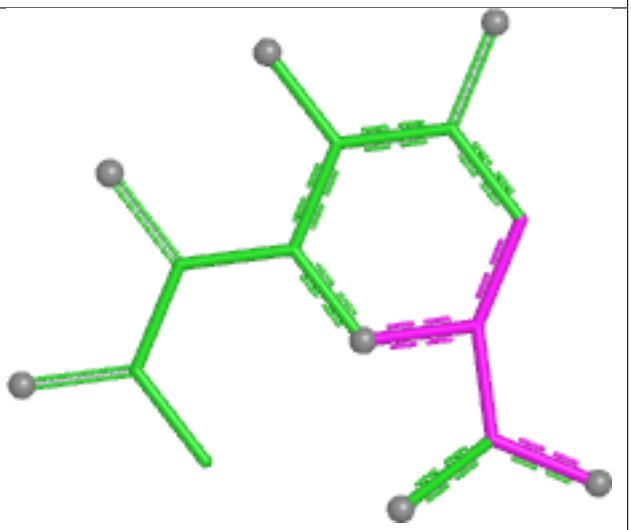


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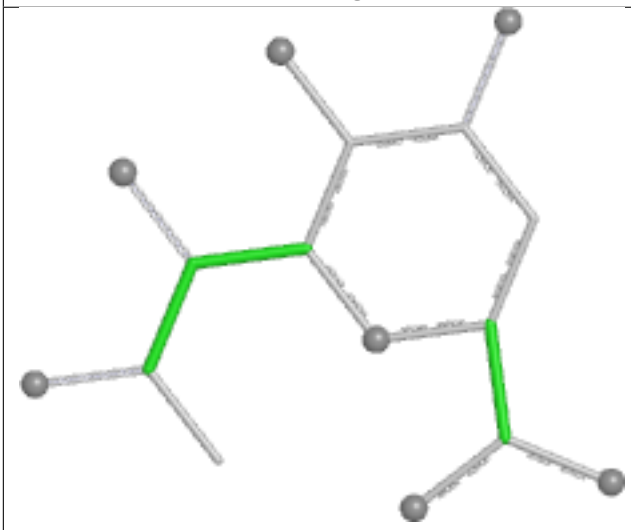
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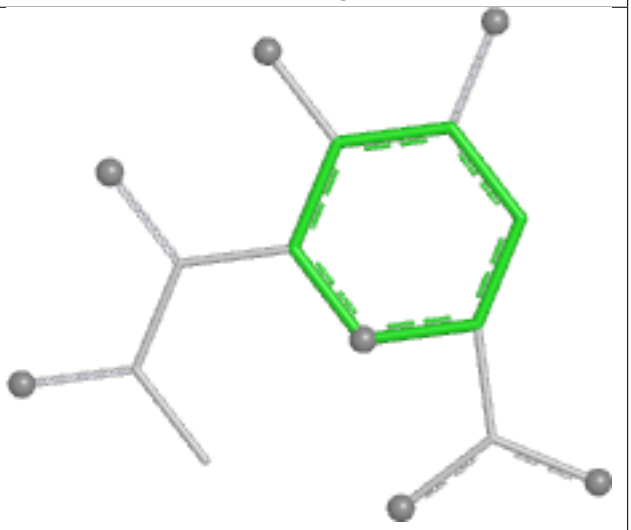
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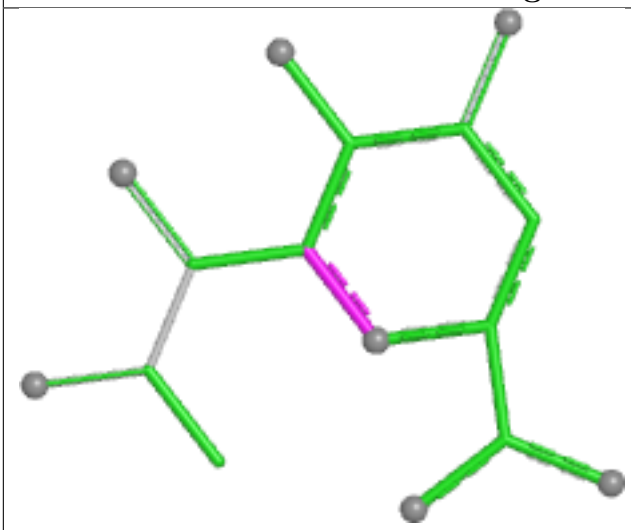


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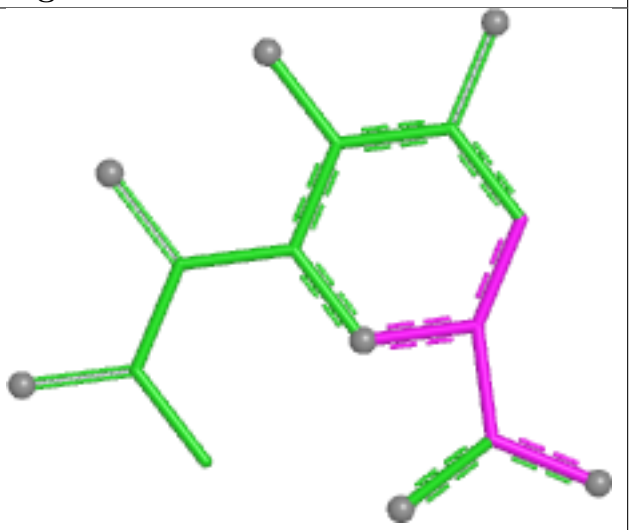


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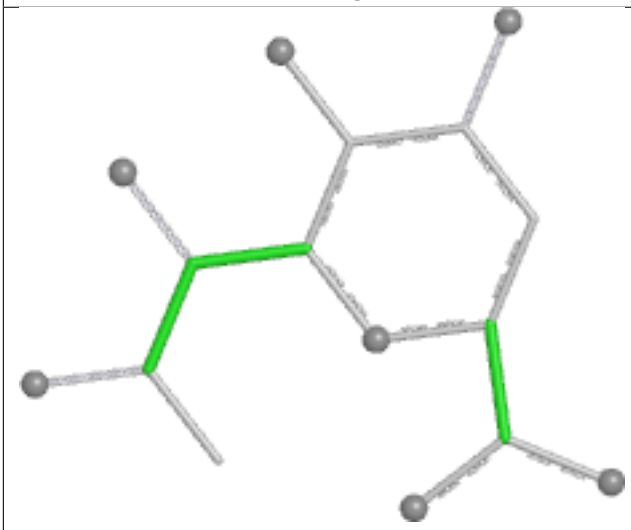
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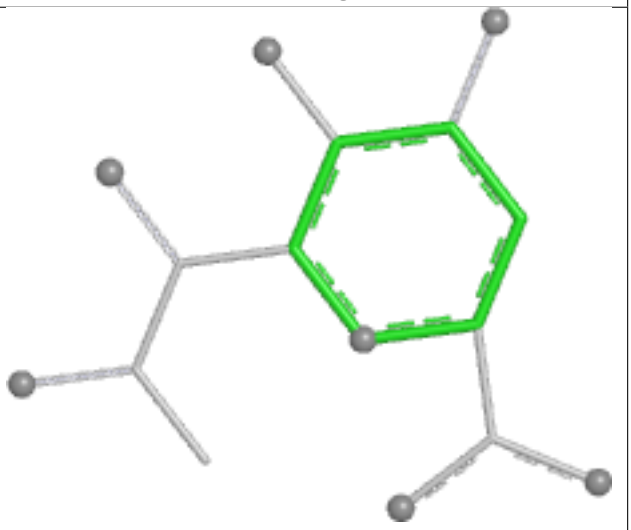
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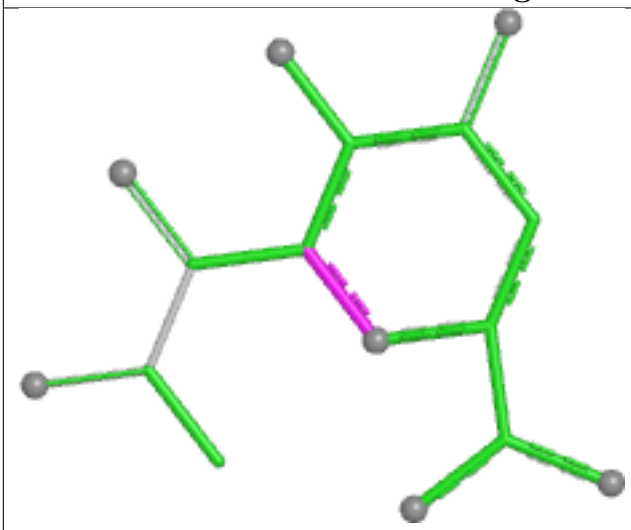


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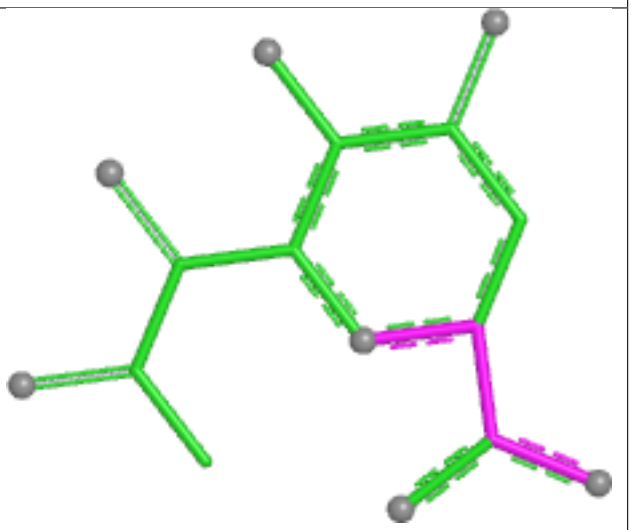


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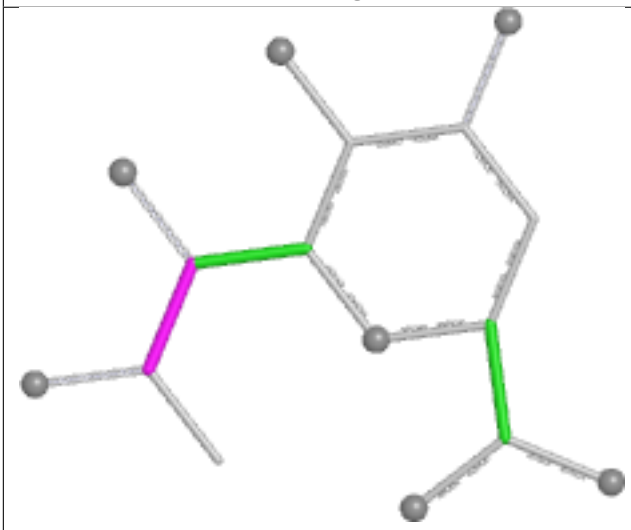
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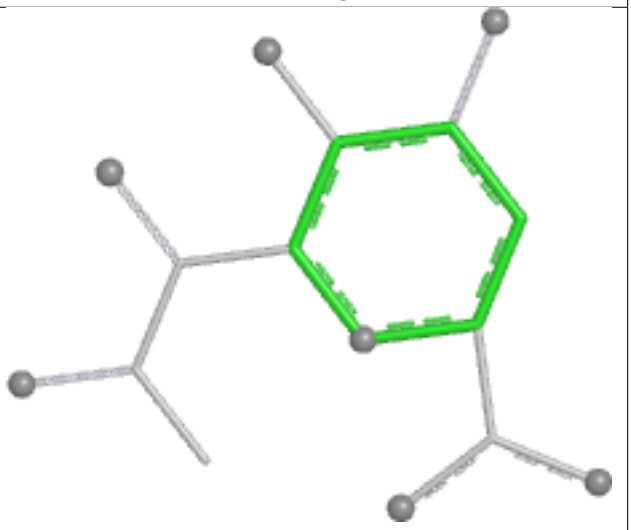
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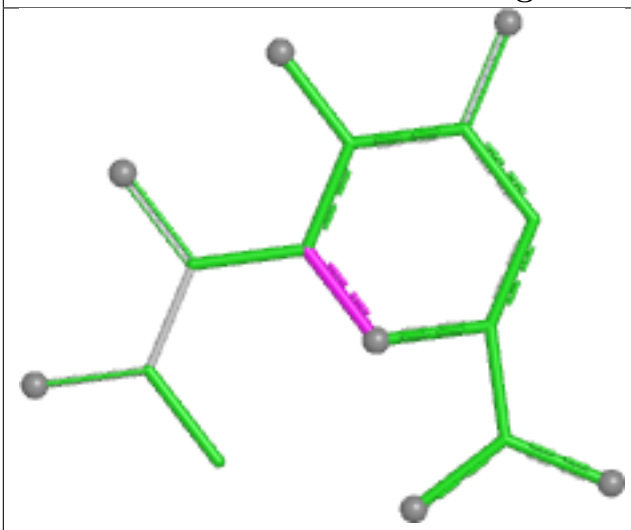


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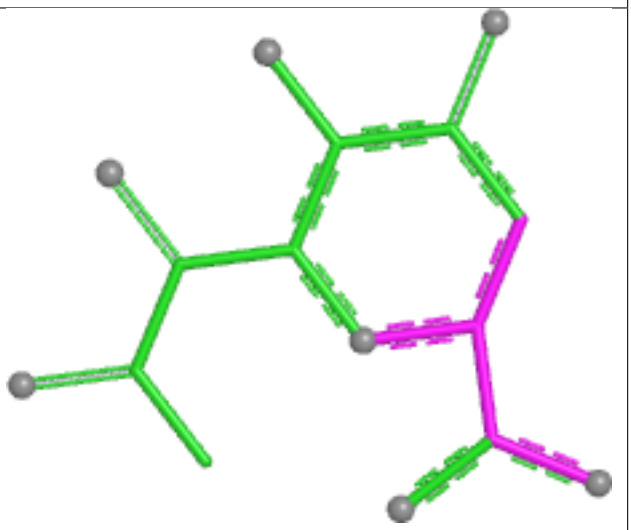


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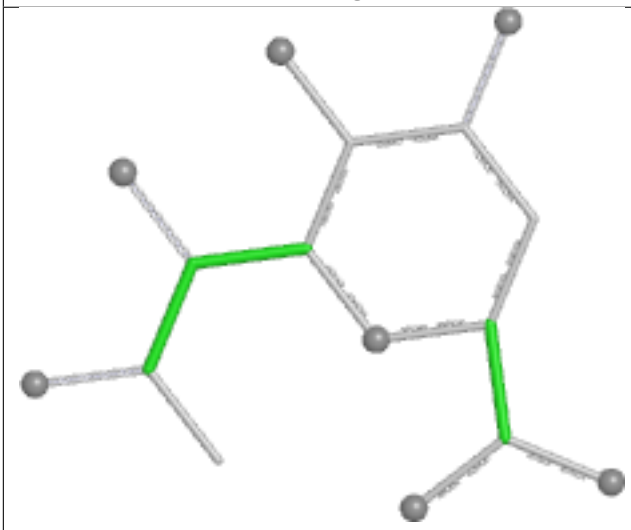
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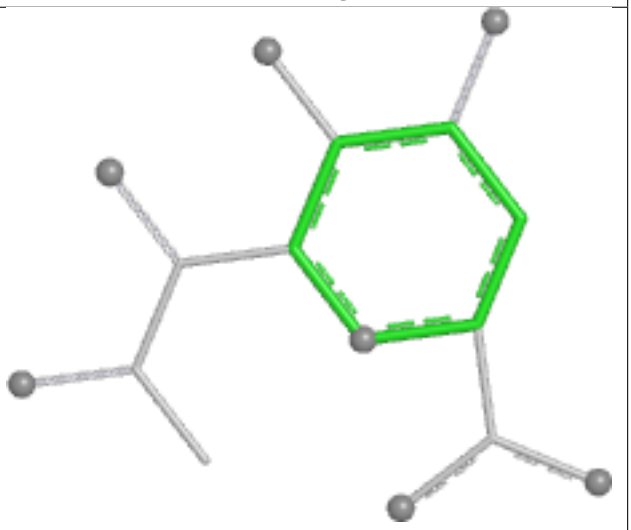
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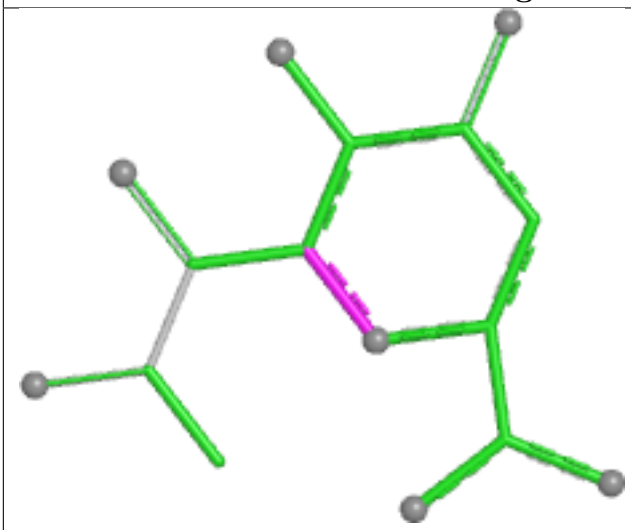


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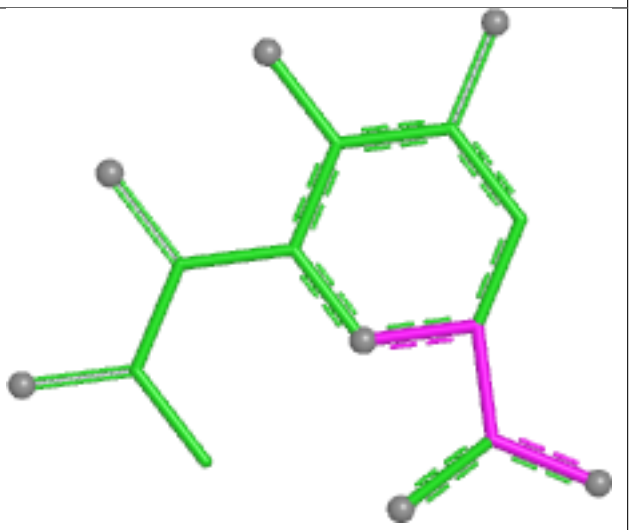


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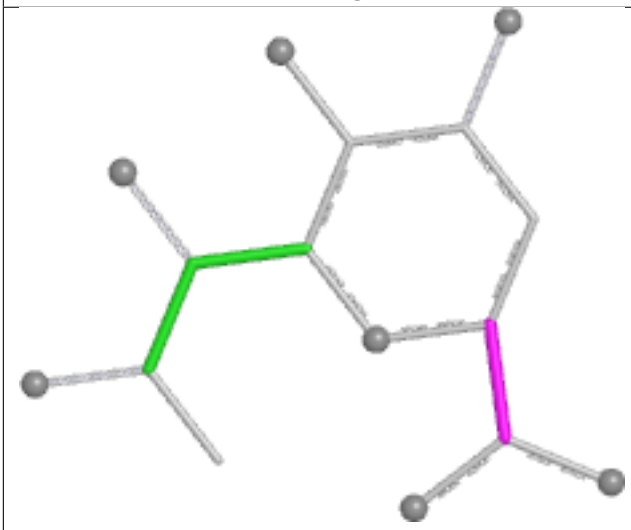
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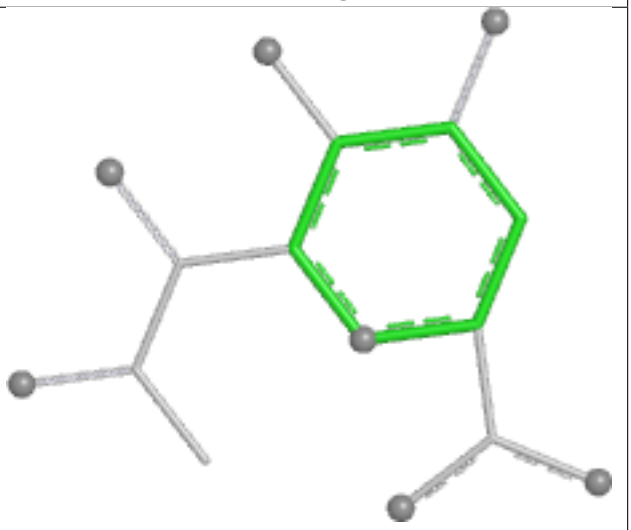
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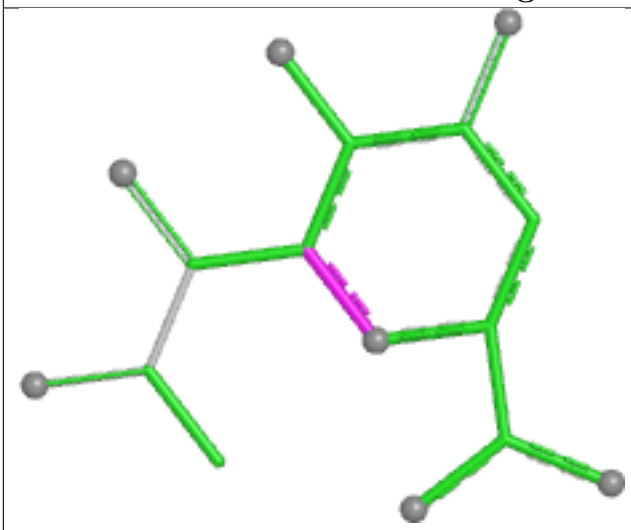


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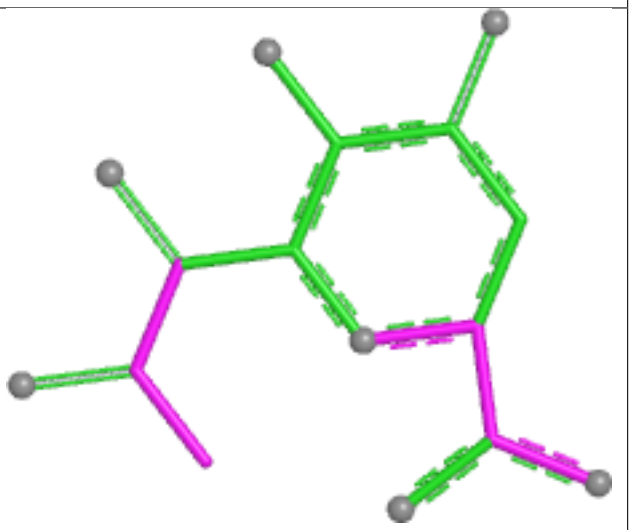


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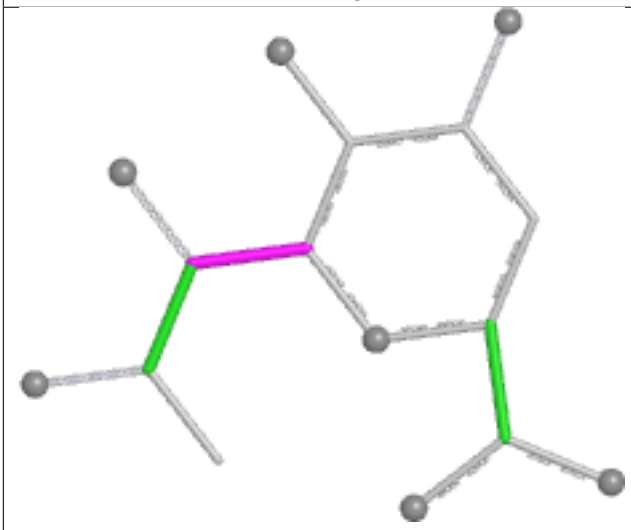
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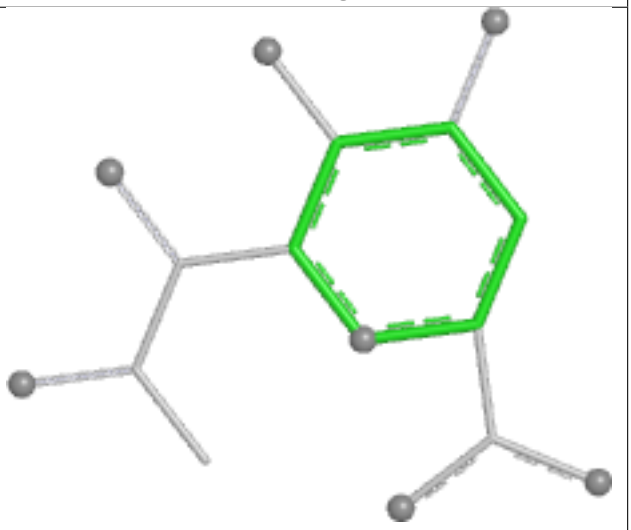
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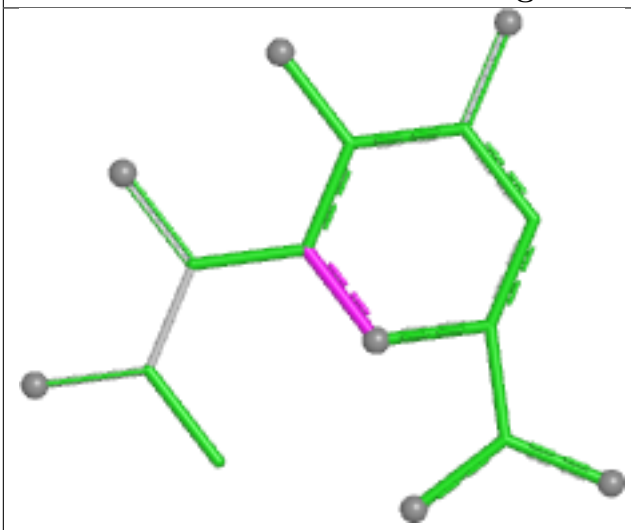


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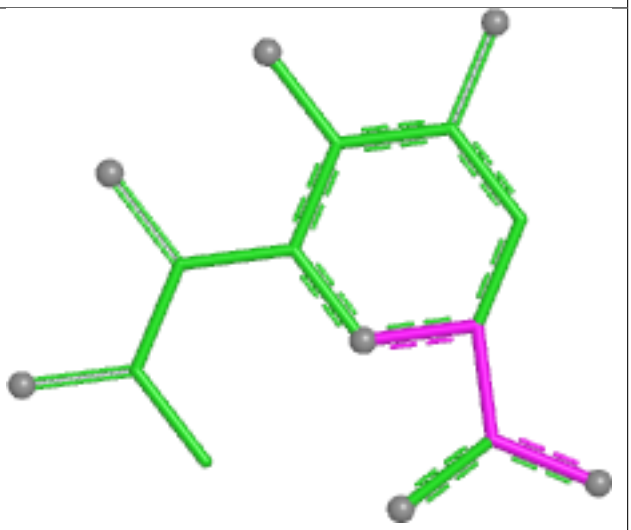


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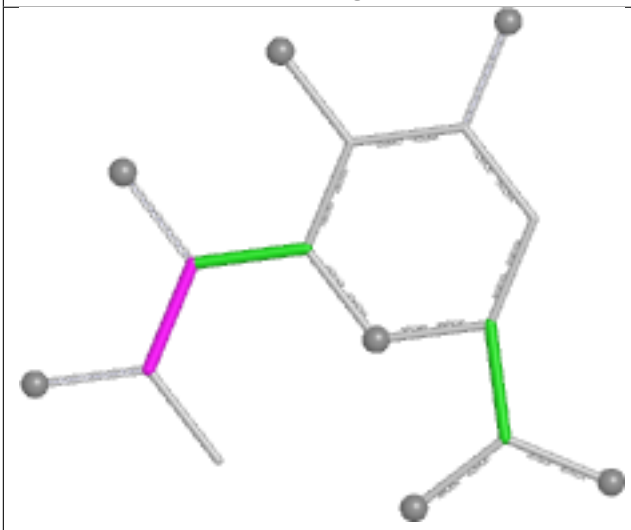
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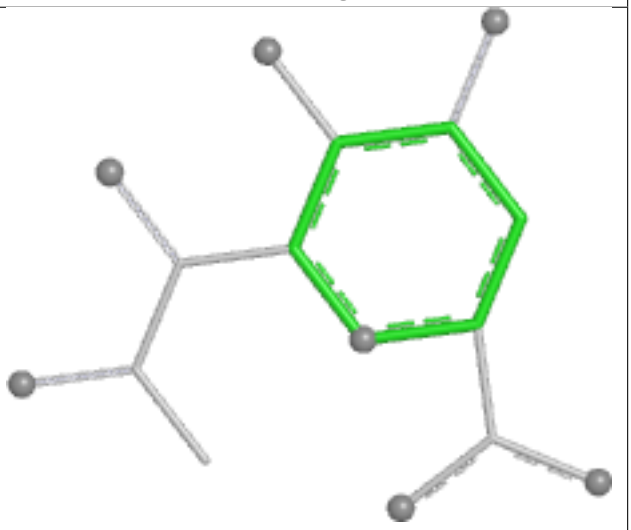
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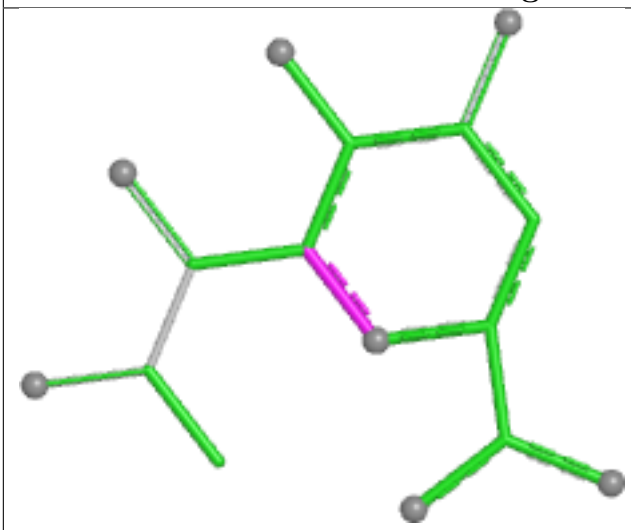


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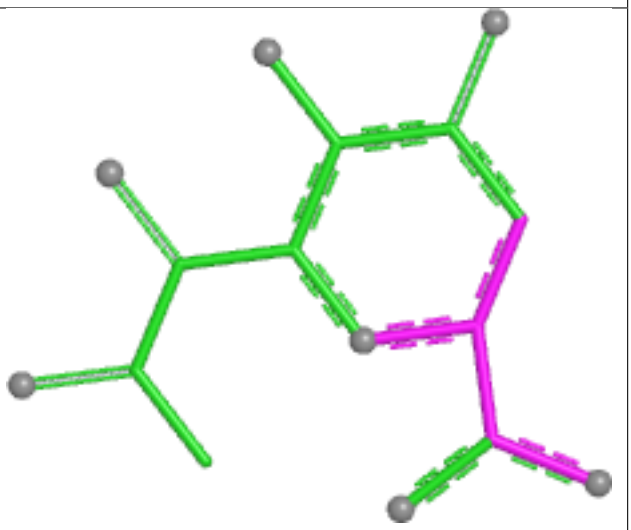


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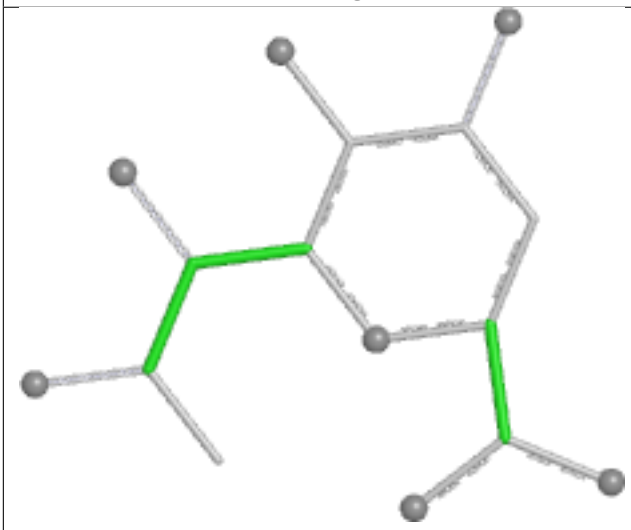
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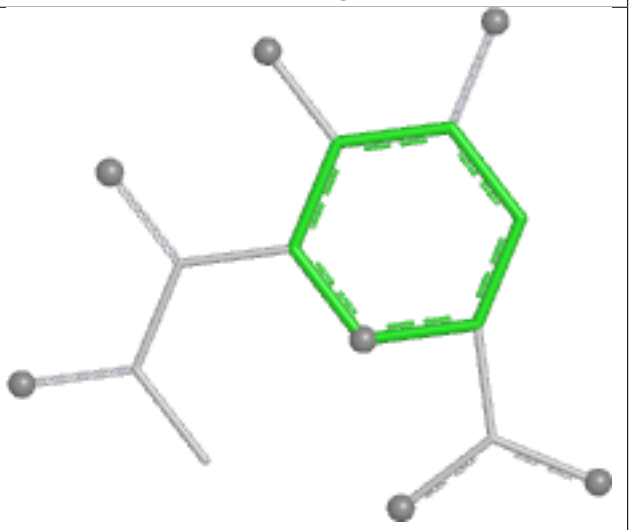
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Bond angles

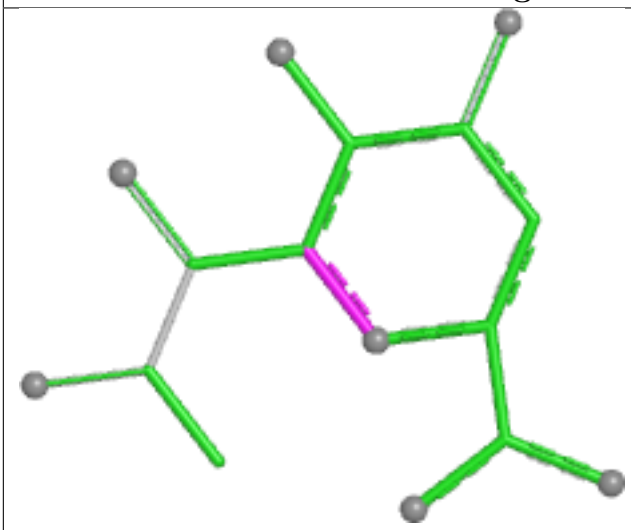


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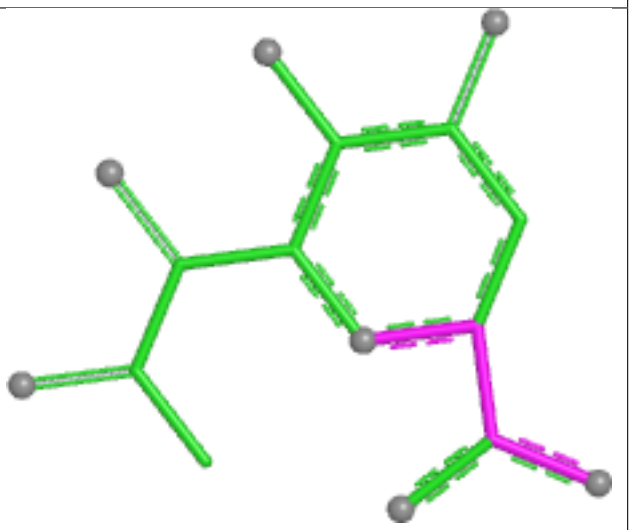


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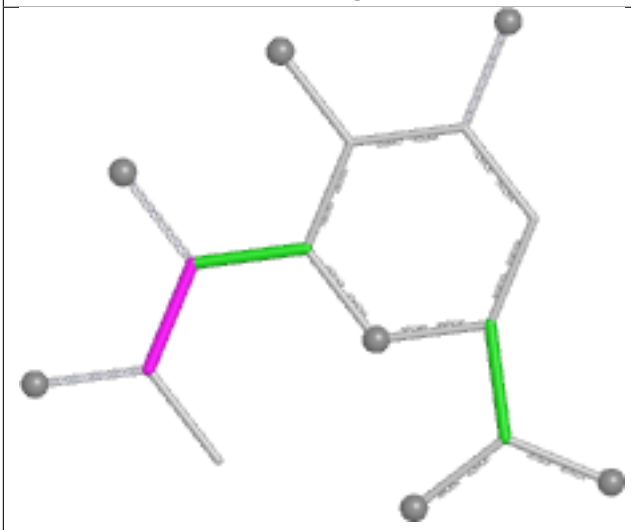
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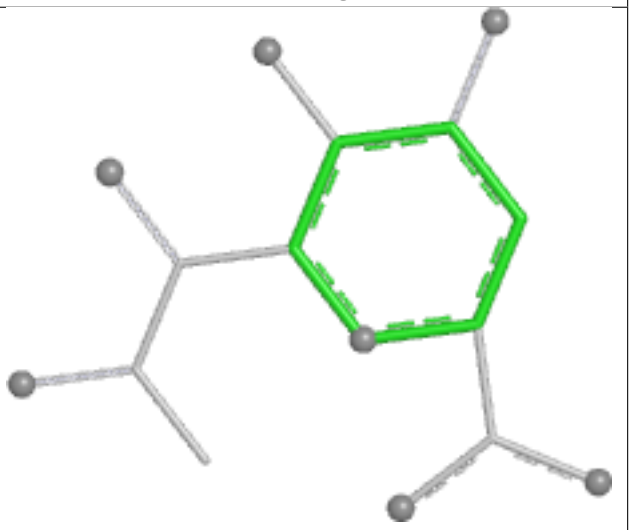
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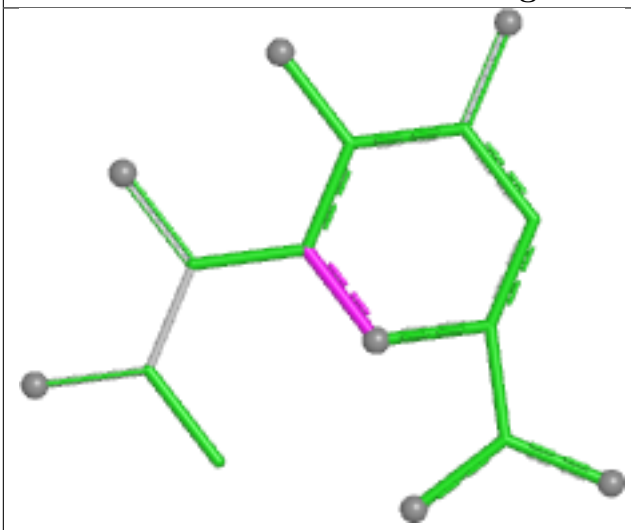


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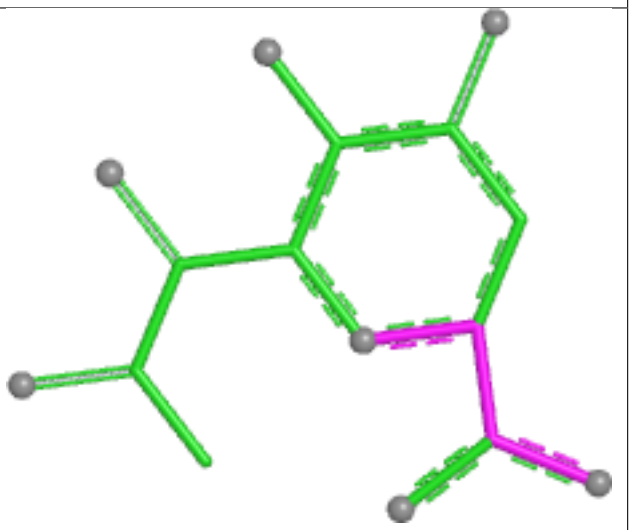


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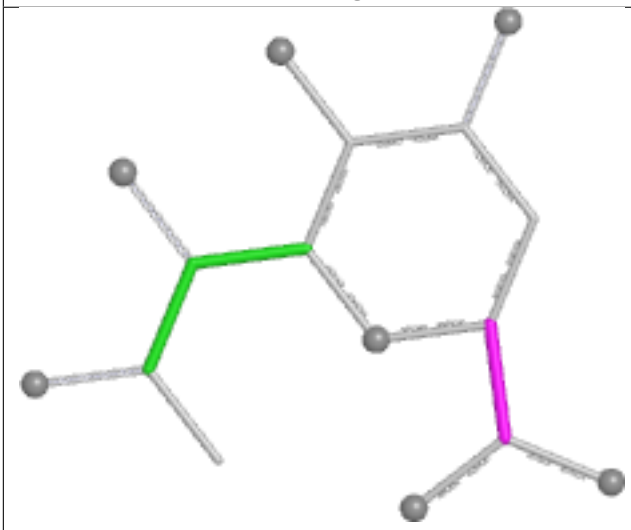
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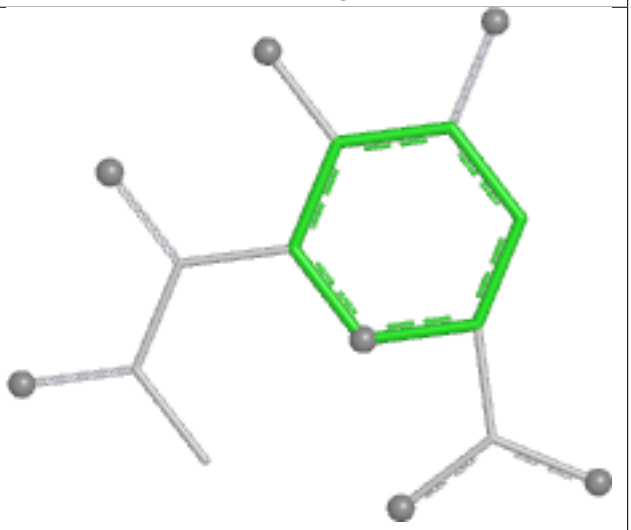
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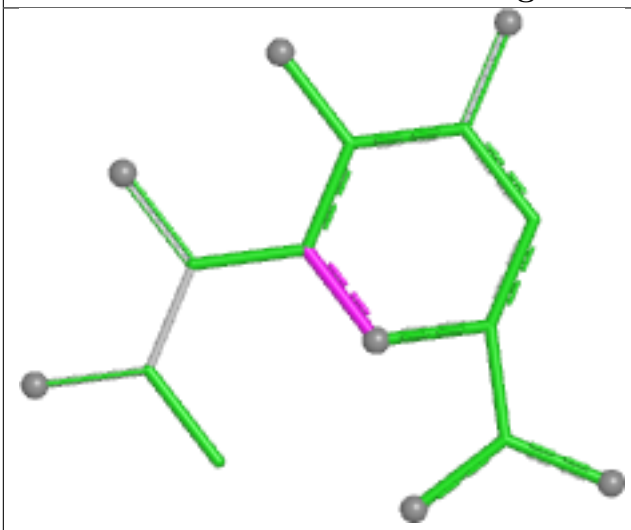


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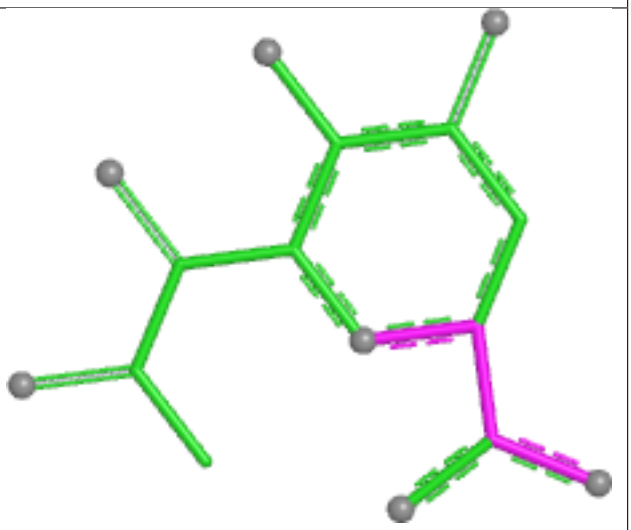


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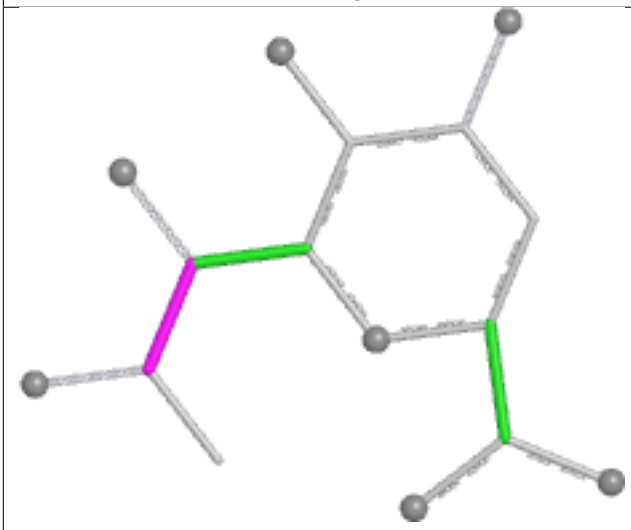
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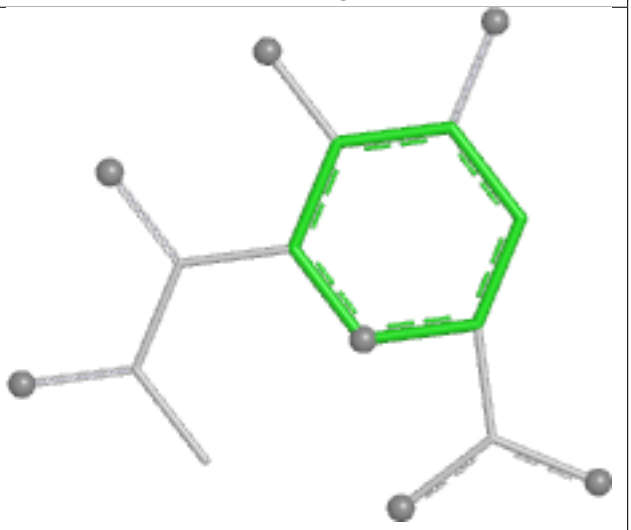
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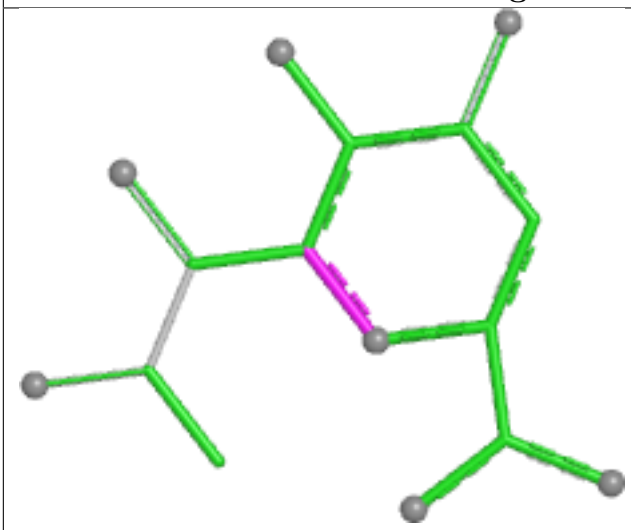


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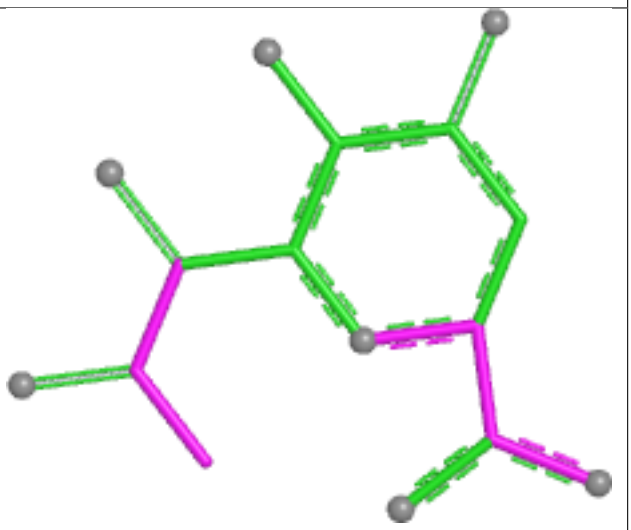


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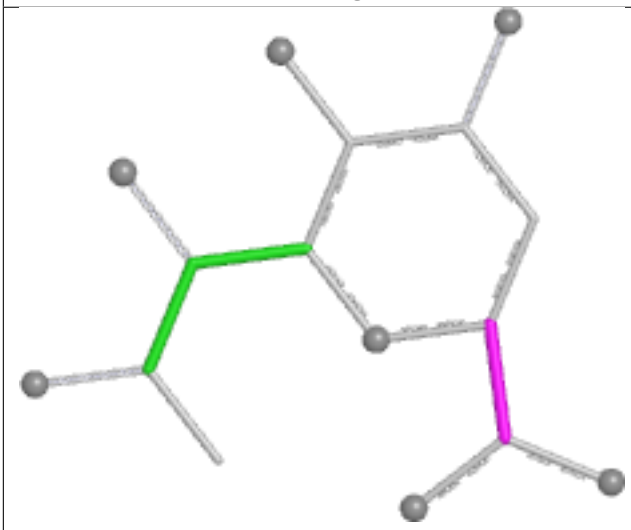
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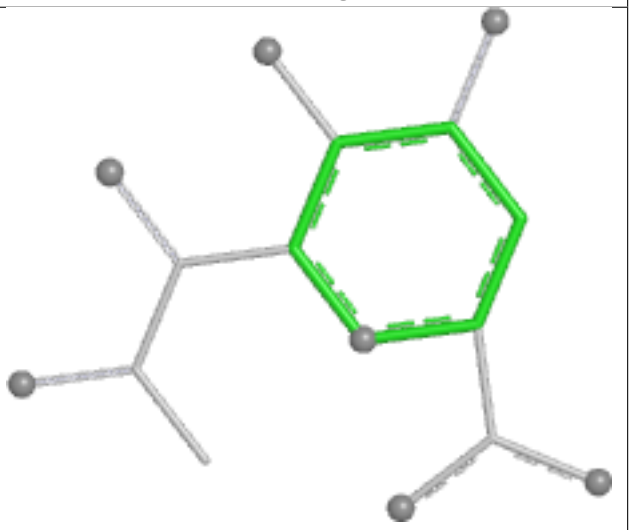
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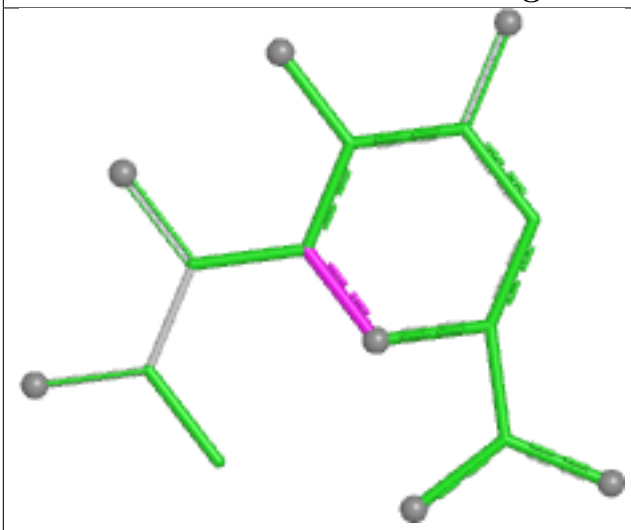


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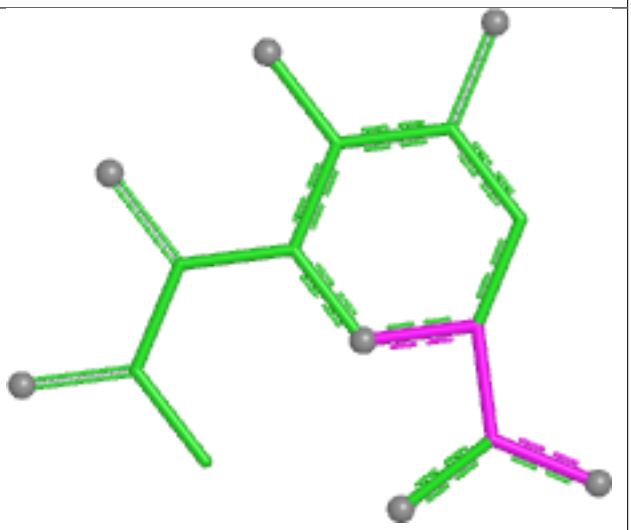


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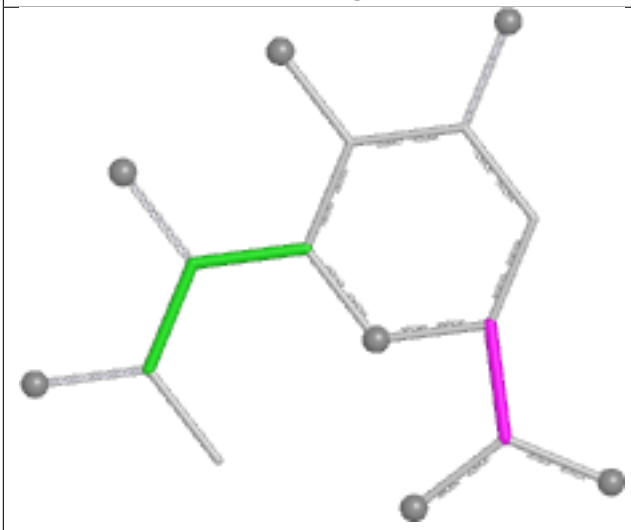
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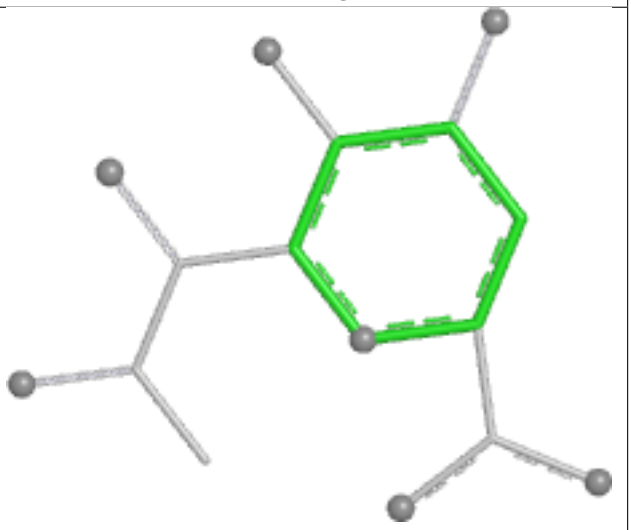
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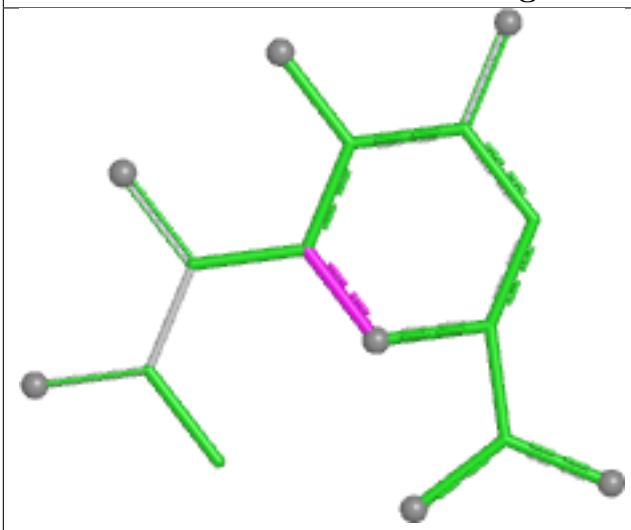


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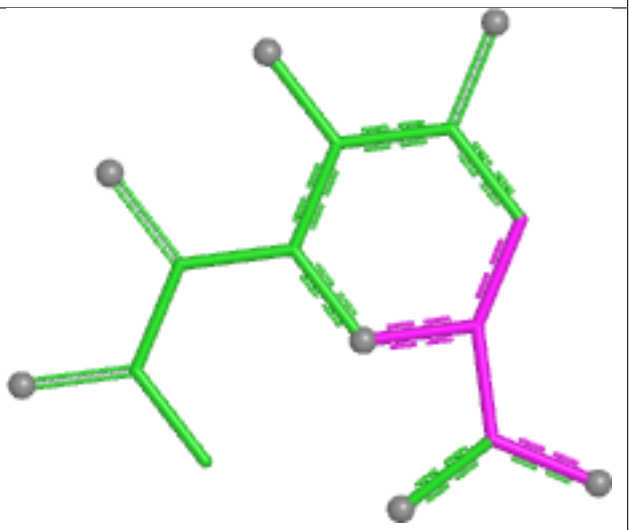


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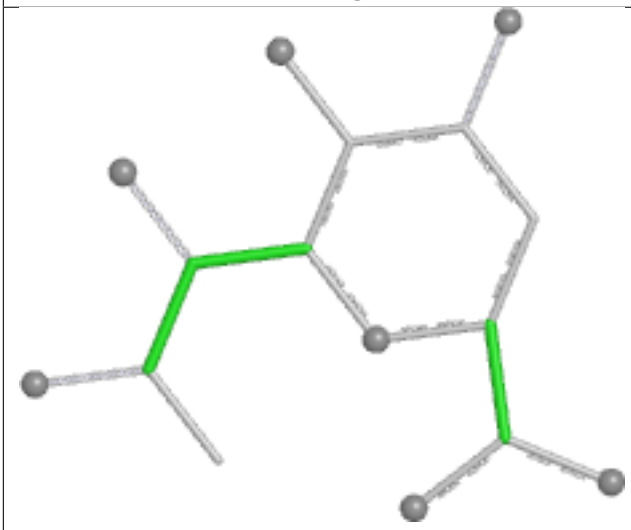
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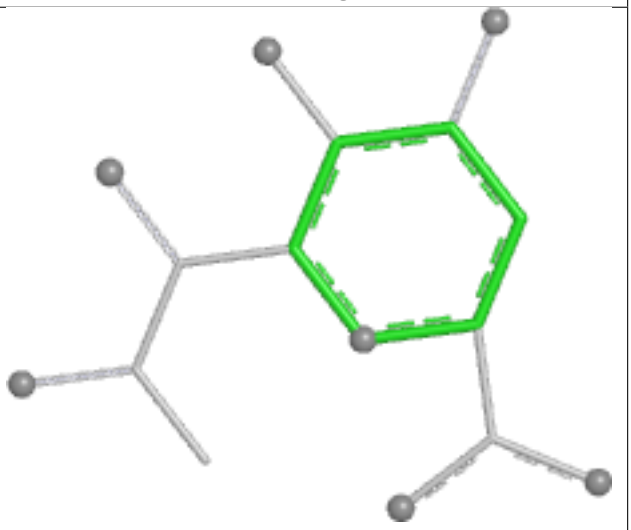
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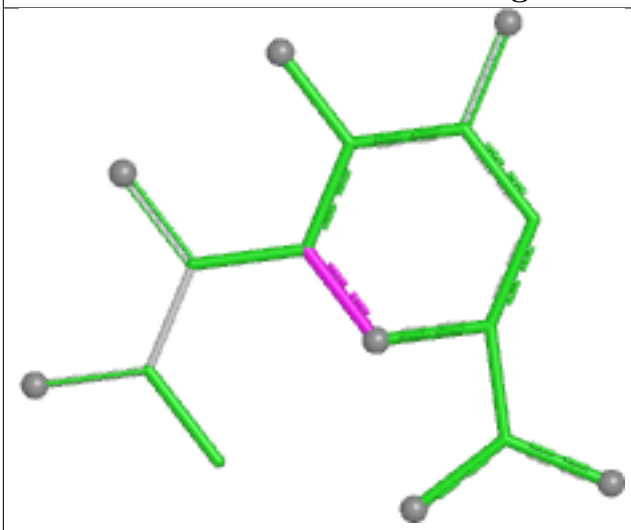


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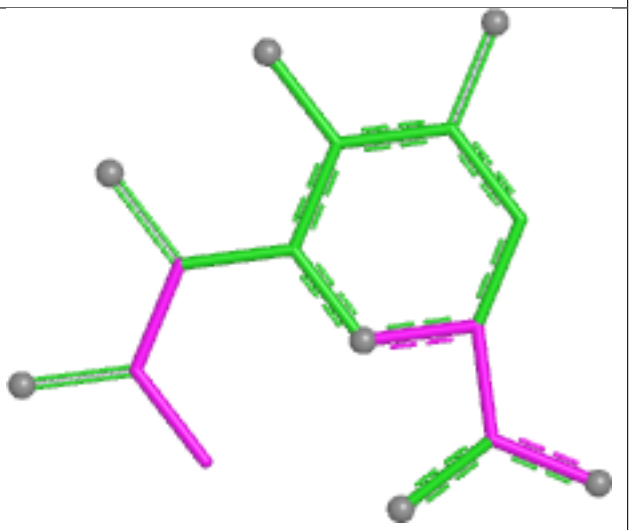


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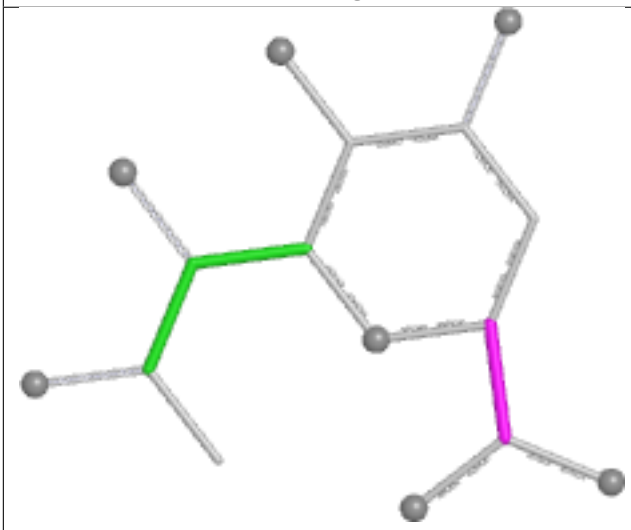
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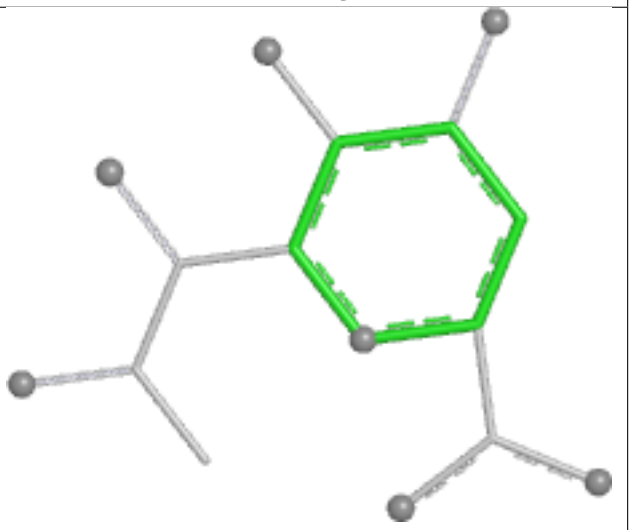
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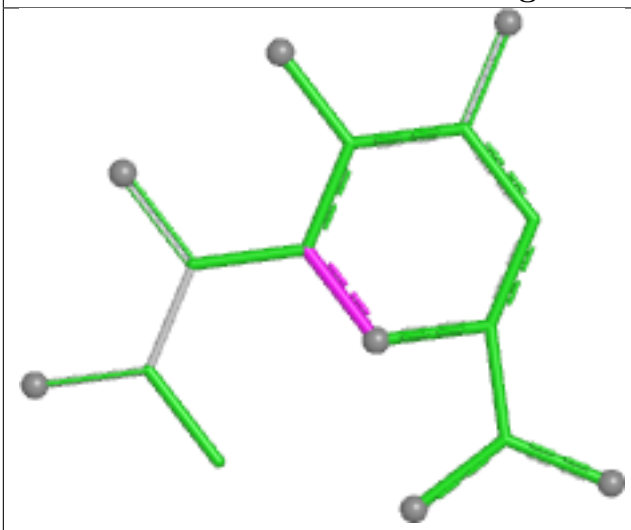


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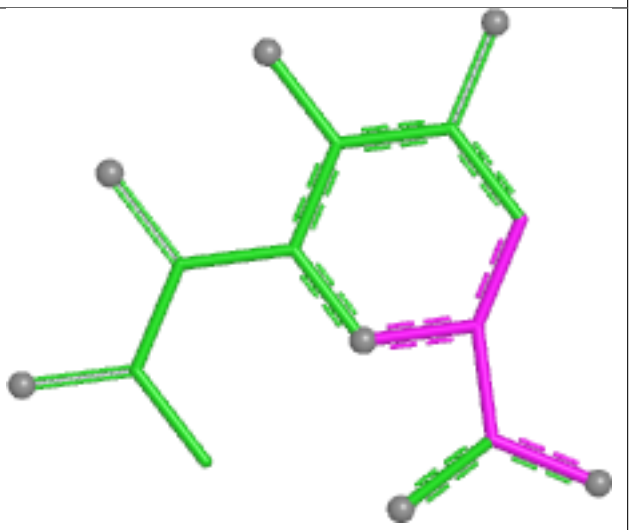


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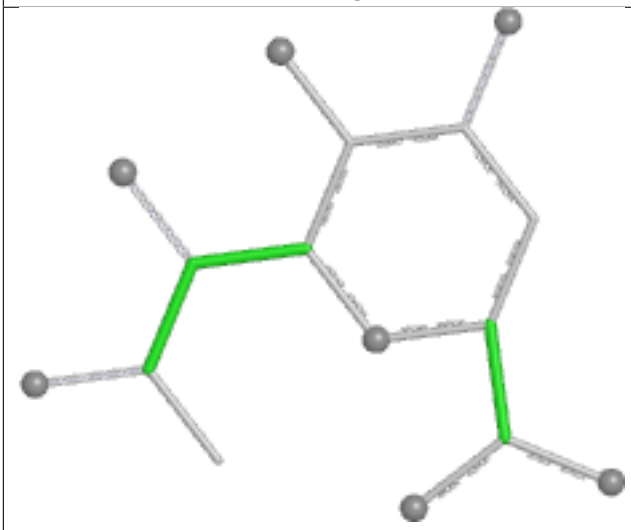
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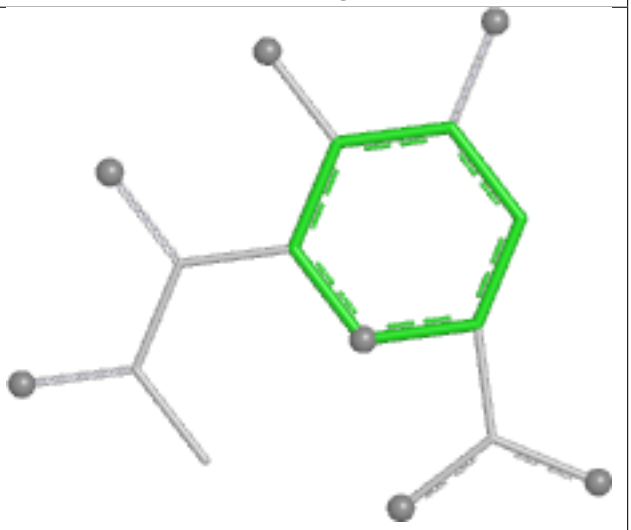
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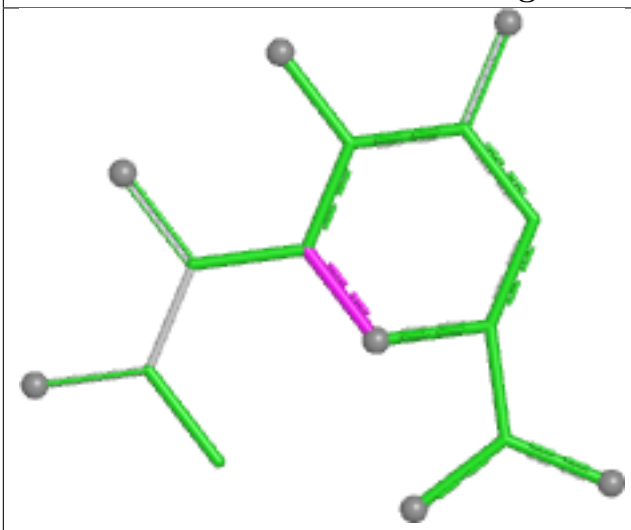


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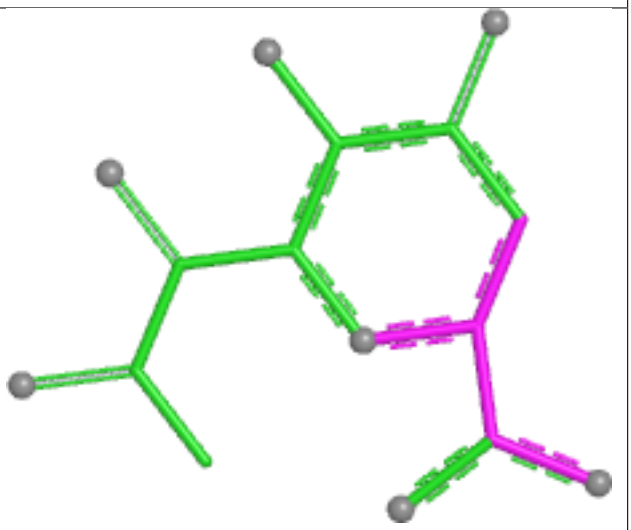


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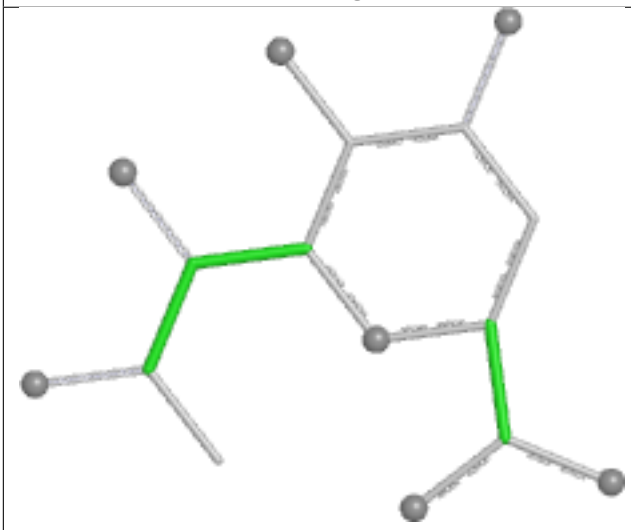
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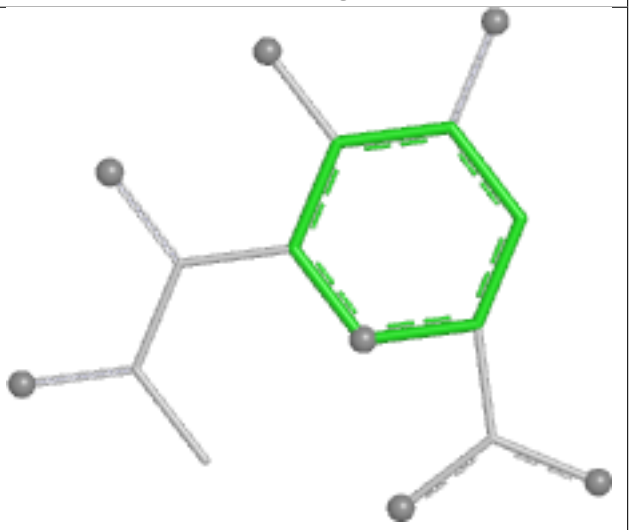
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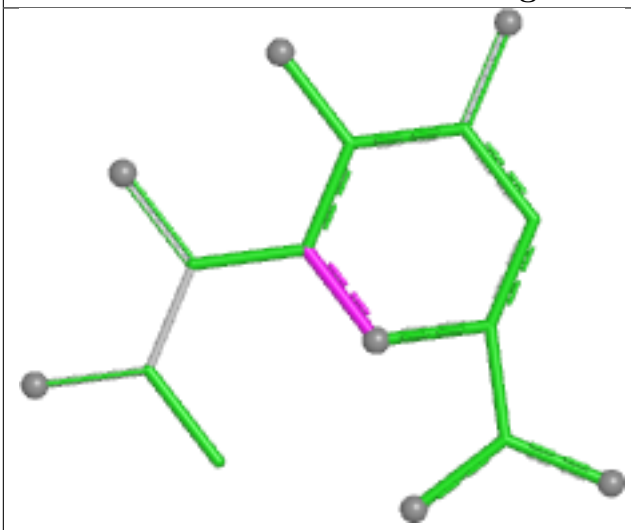


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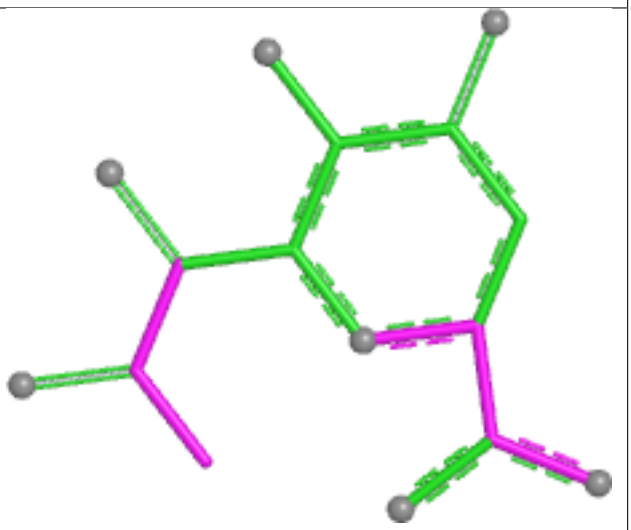


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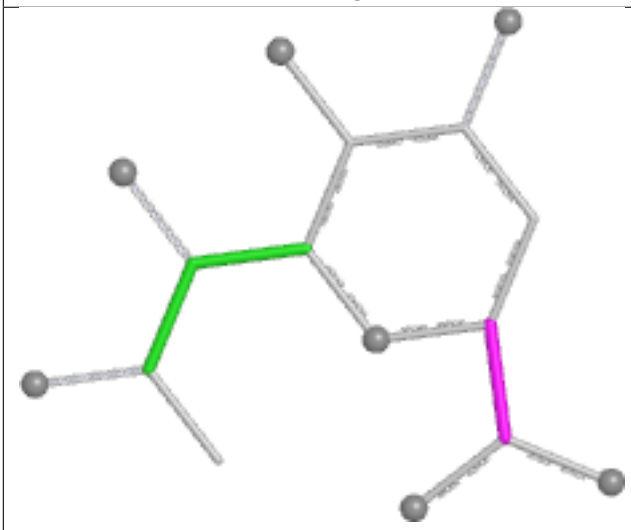
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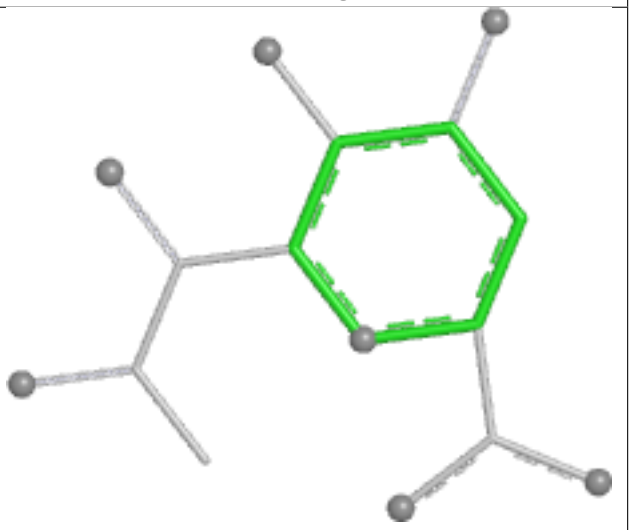
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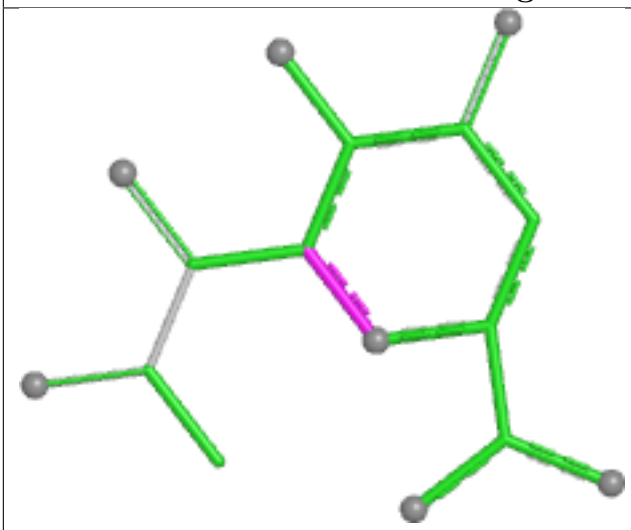


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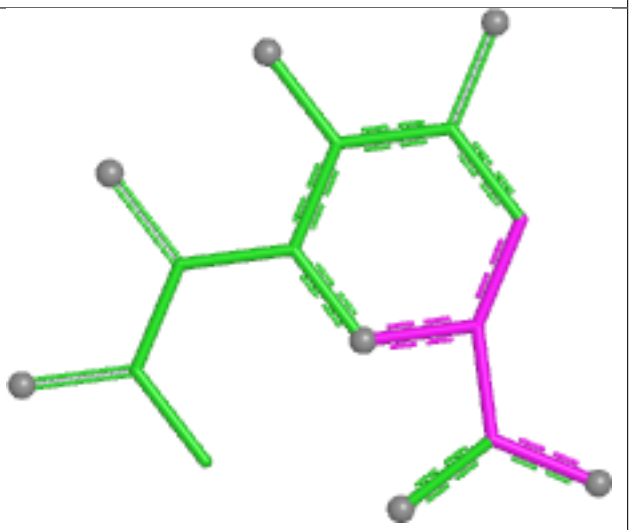


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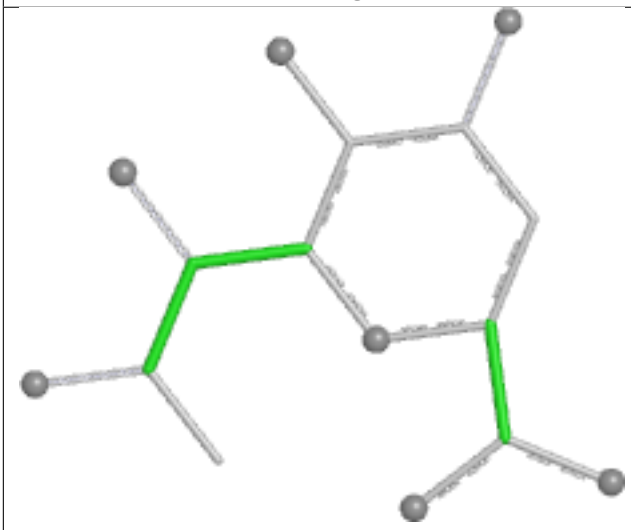
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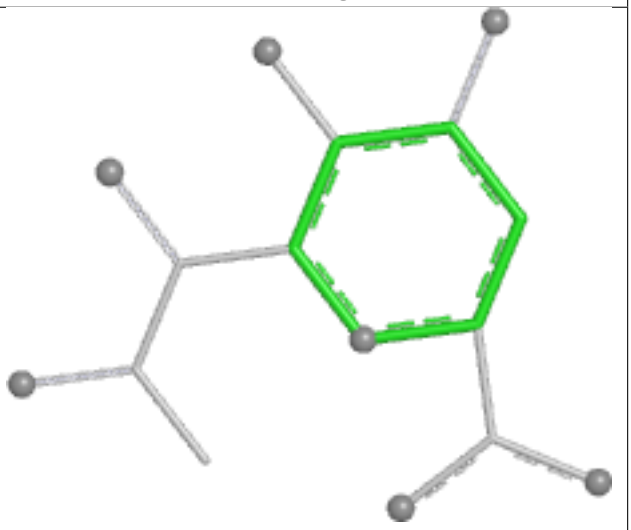
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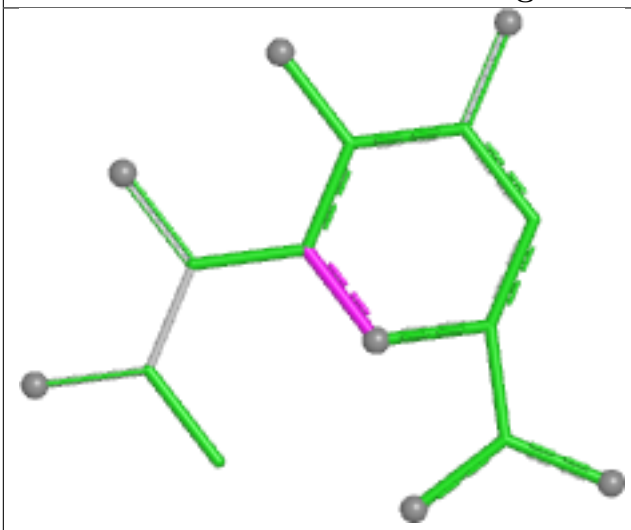


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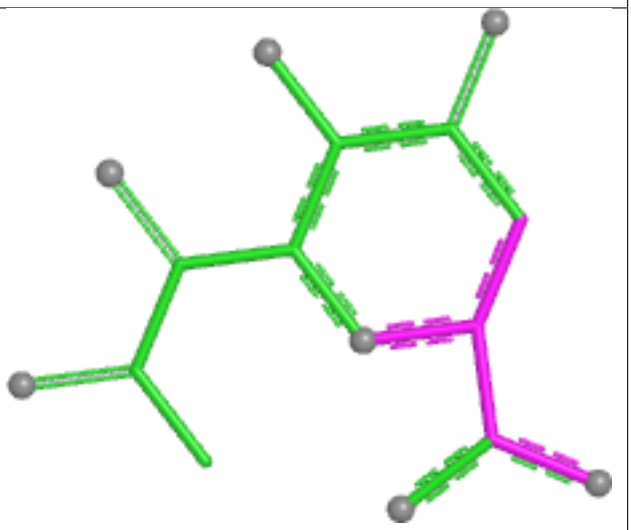


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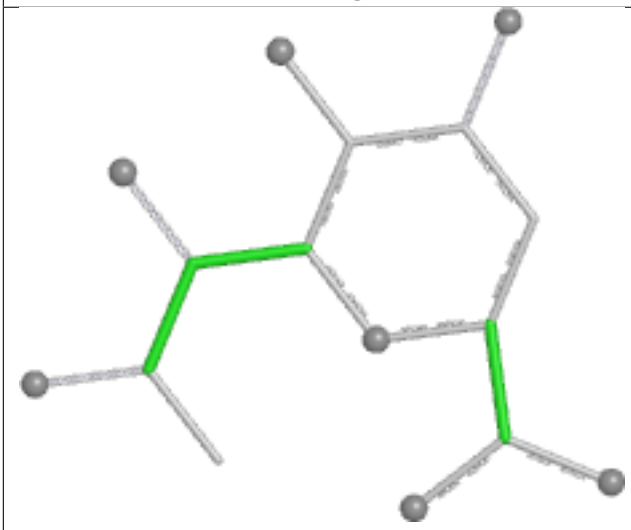
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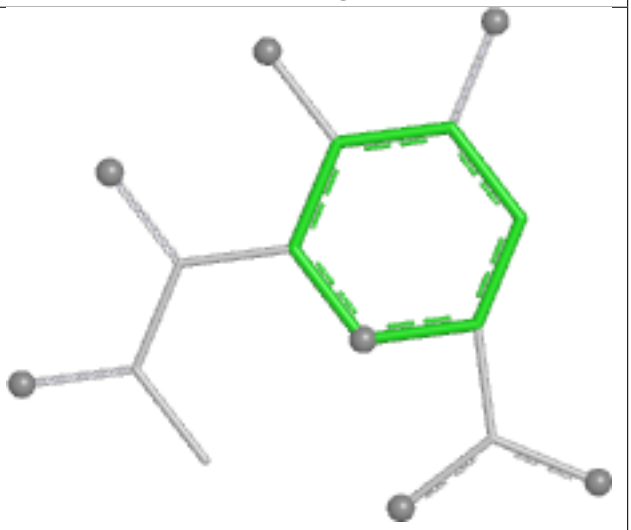
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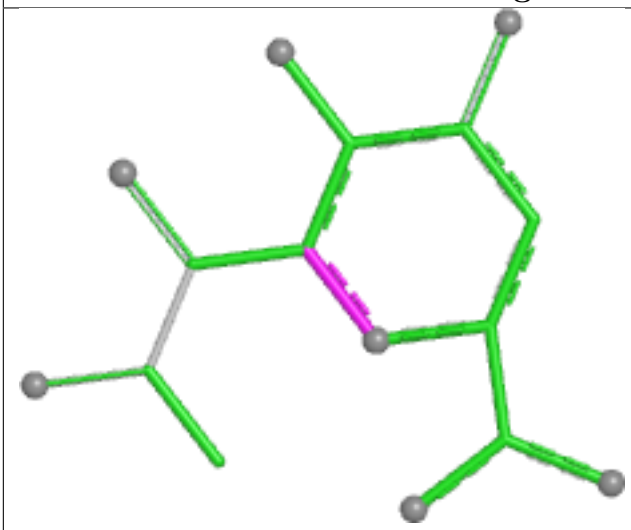


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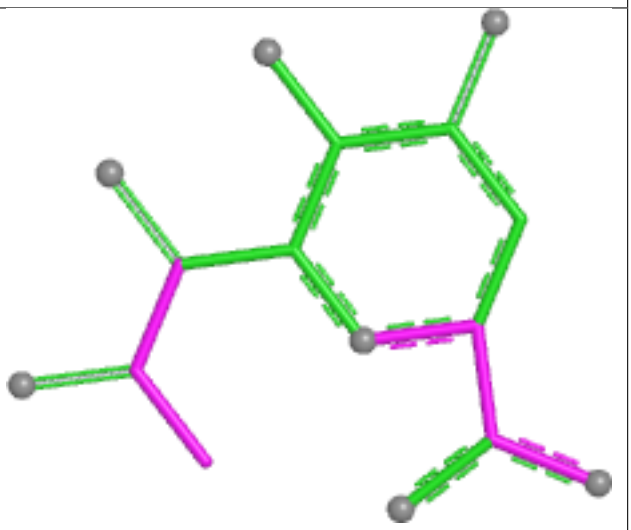


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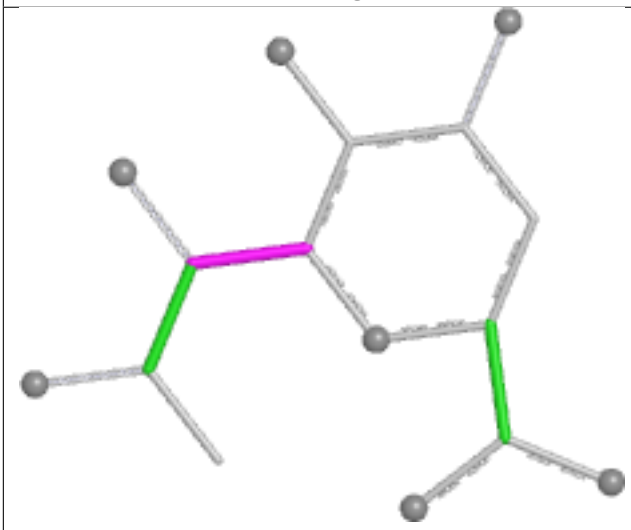
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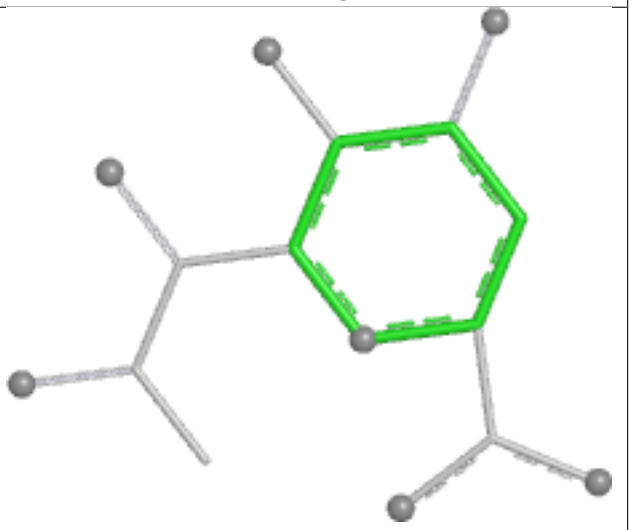
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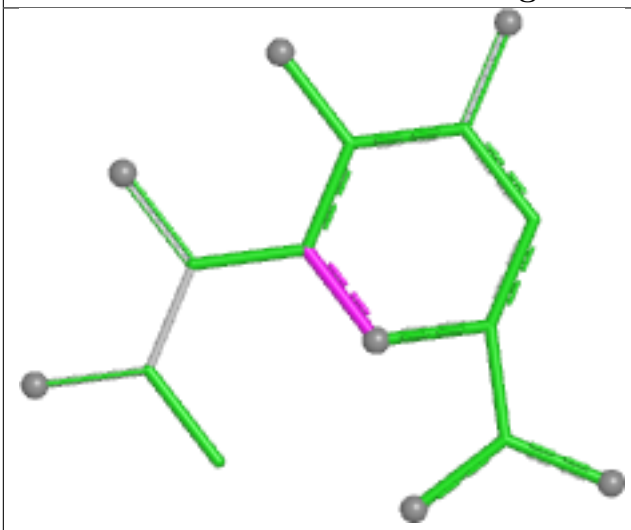


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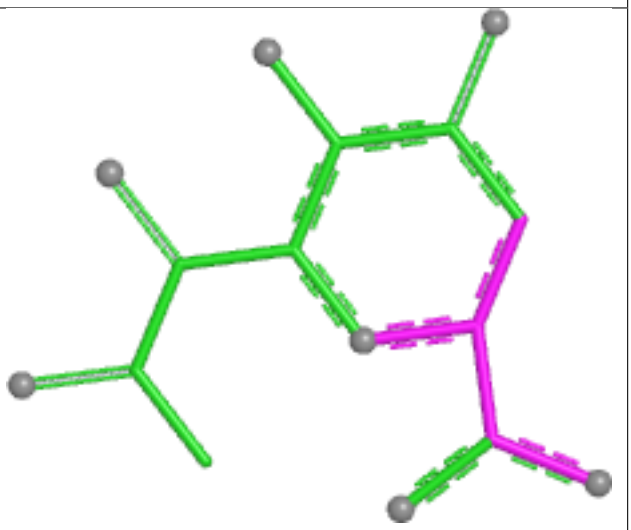


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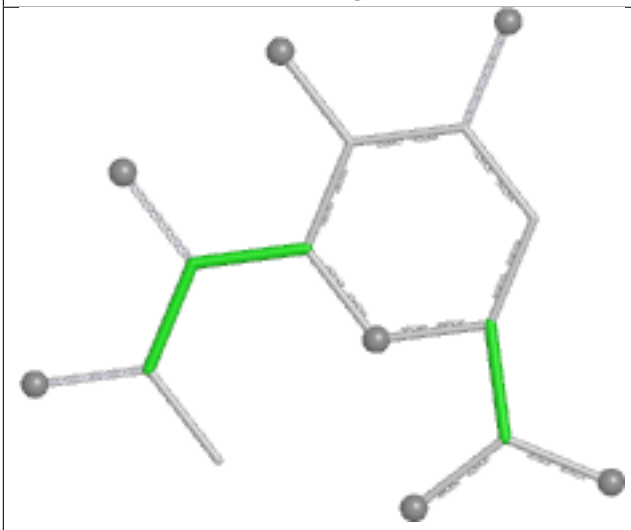
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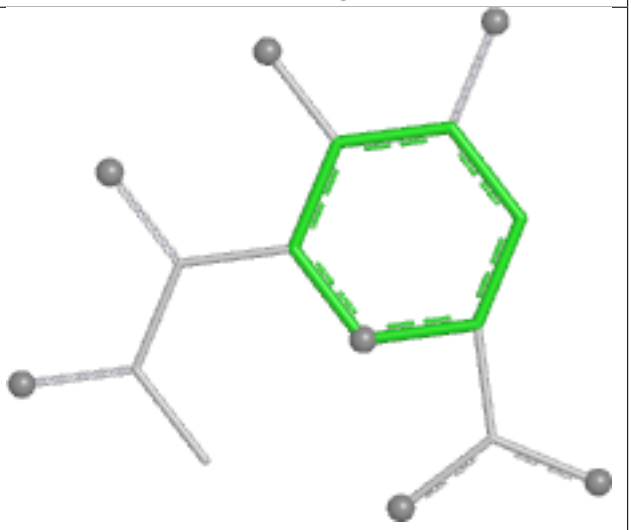
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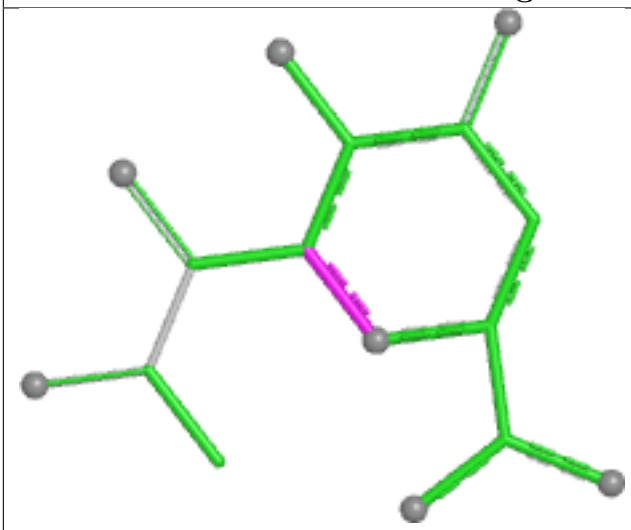


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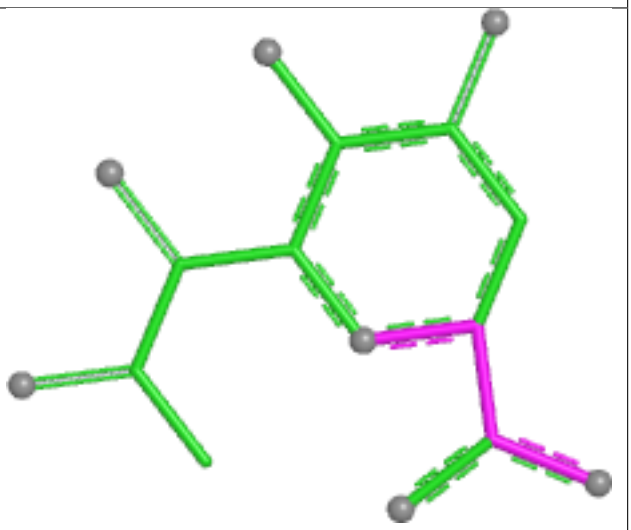


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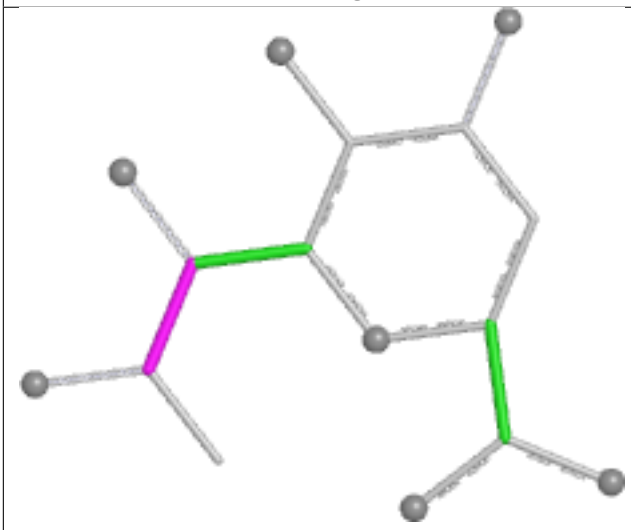
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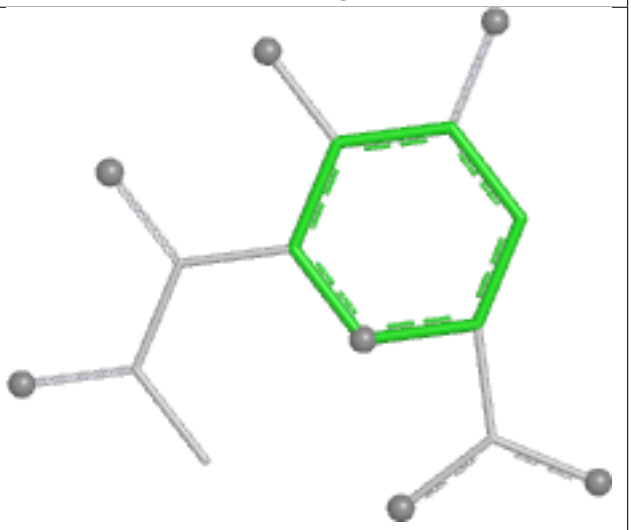
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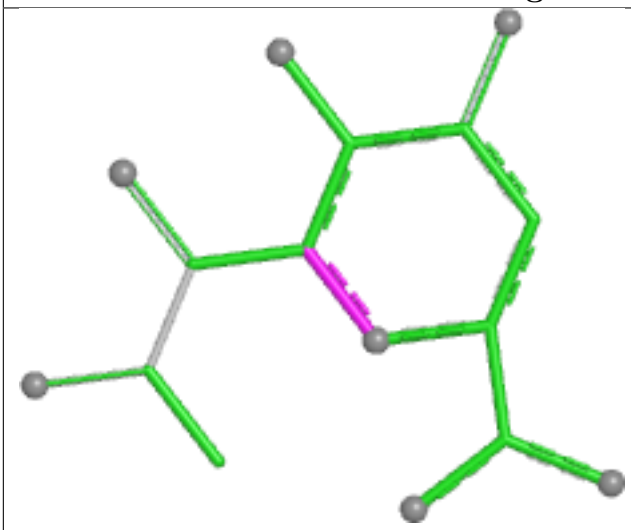


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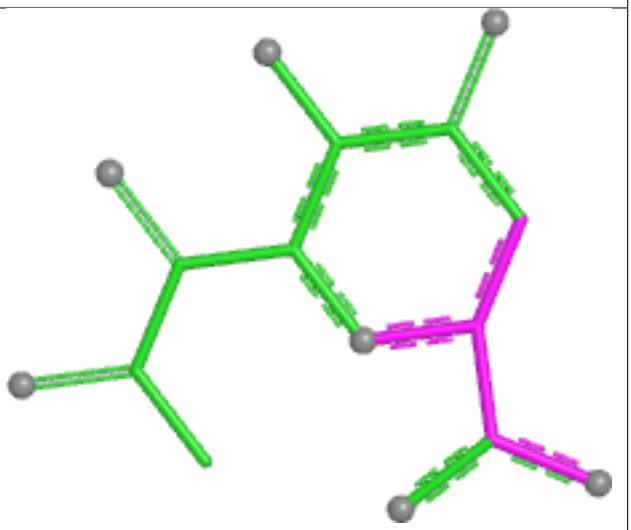


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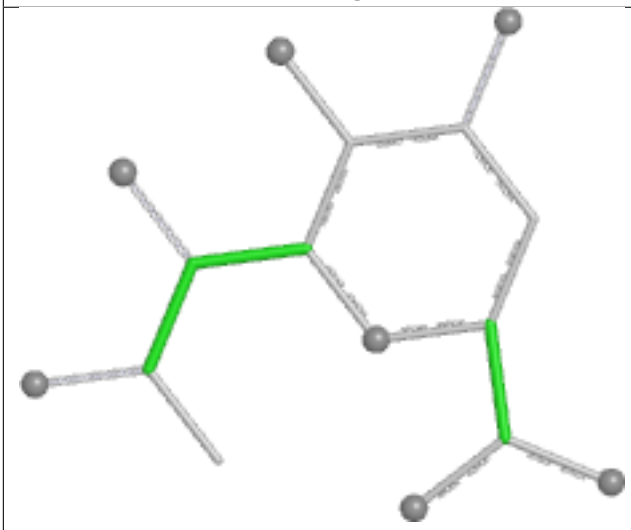
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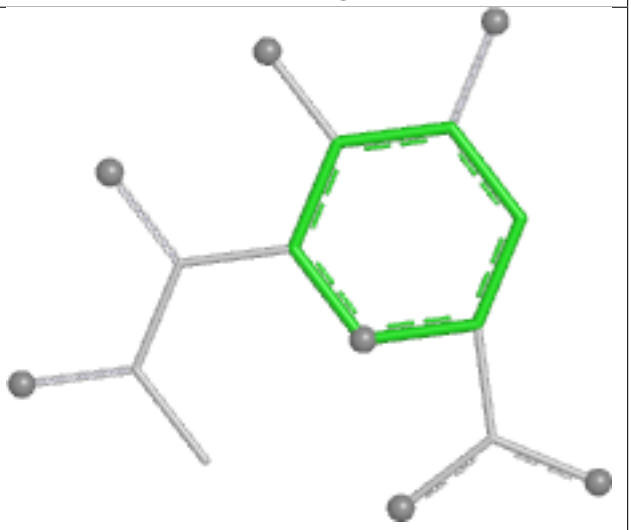
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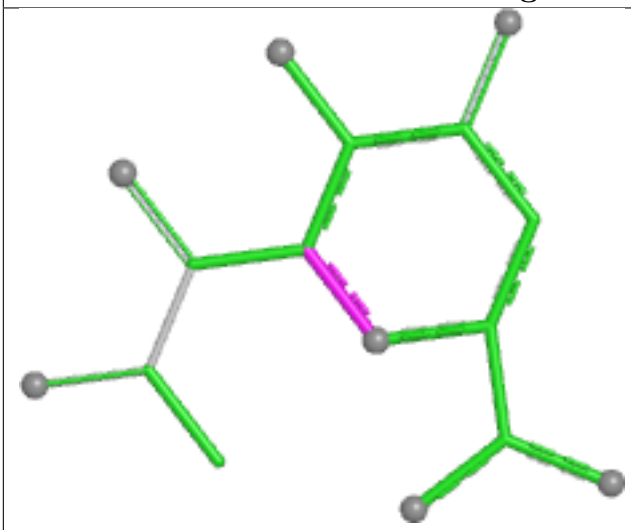


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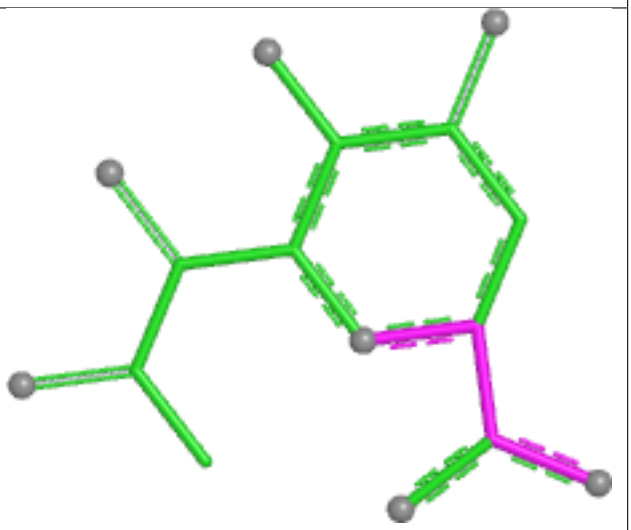


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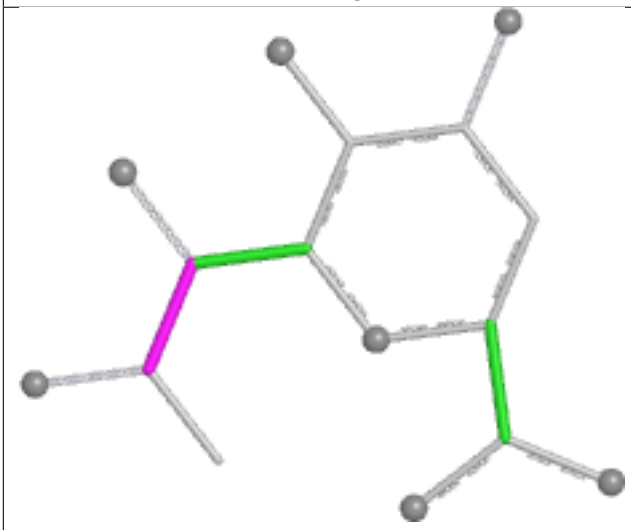
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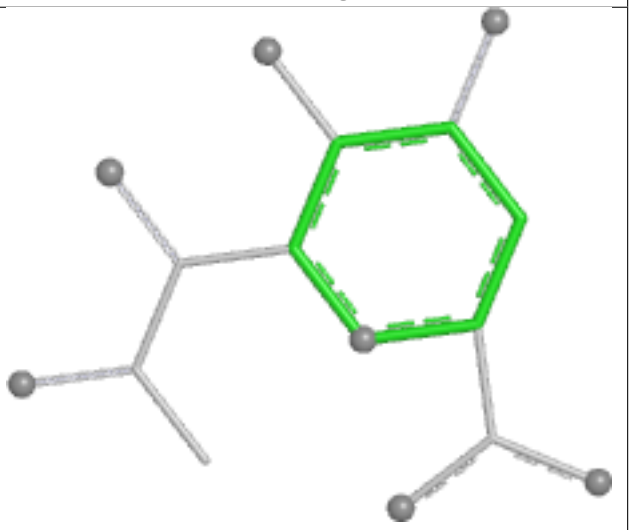
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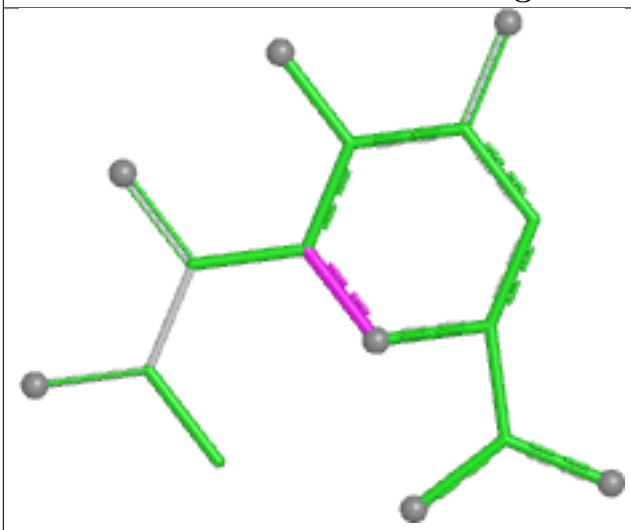


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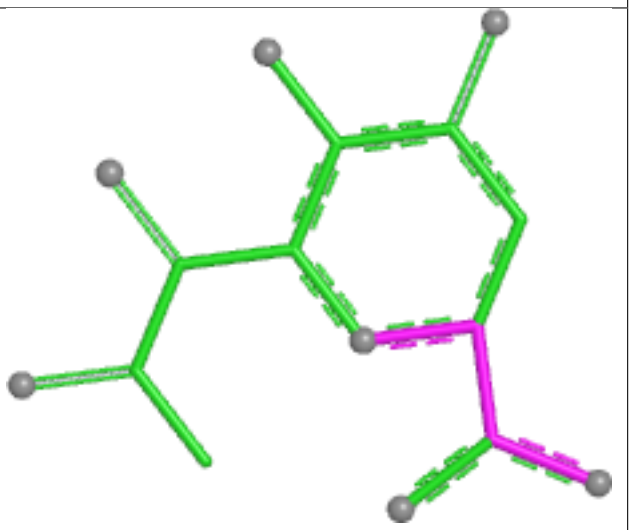


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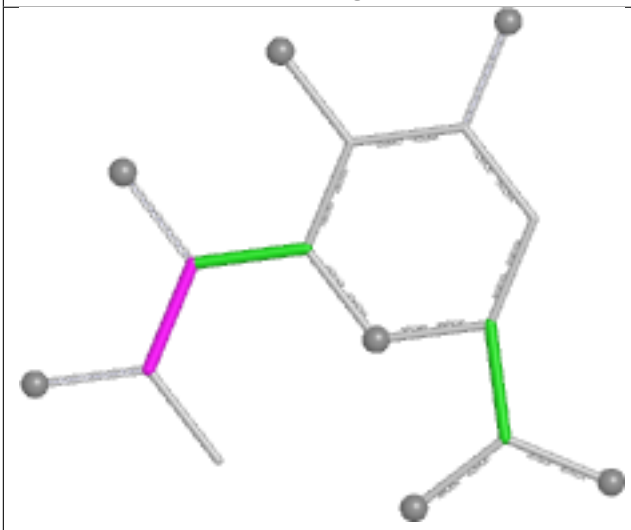
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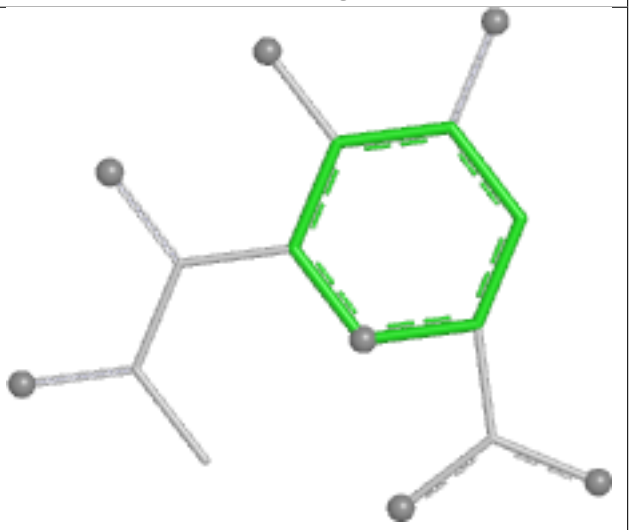
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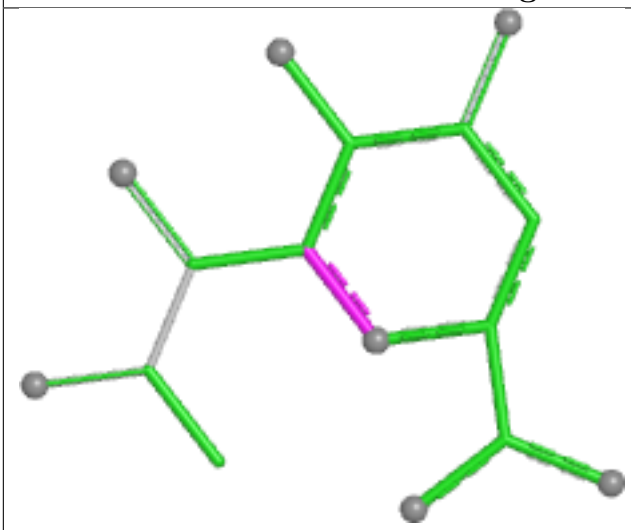


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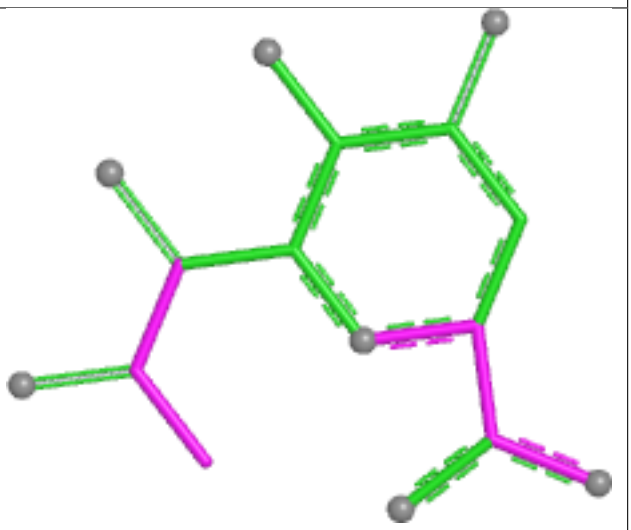


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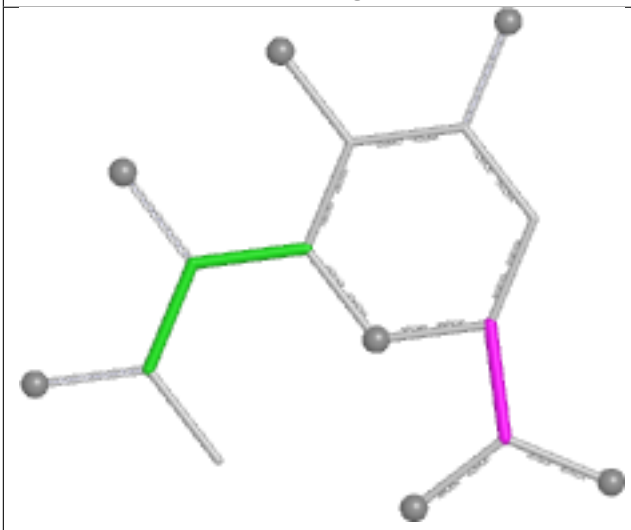
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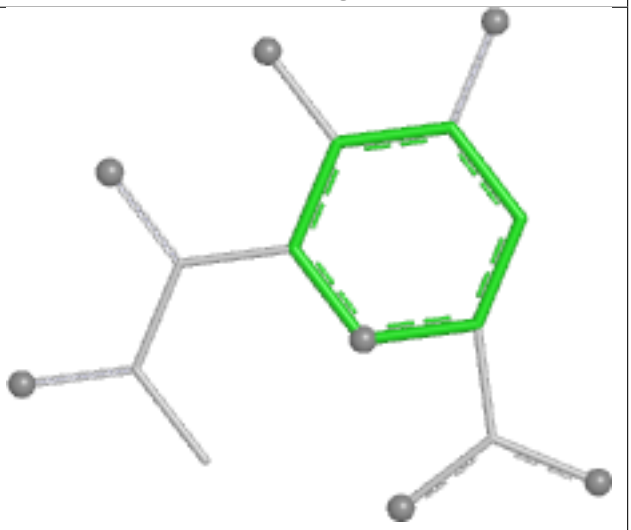
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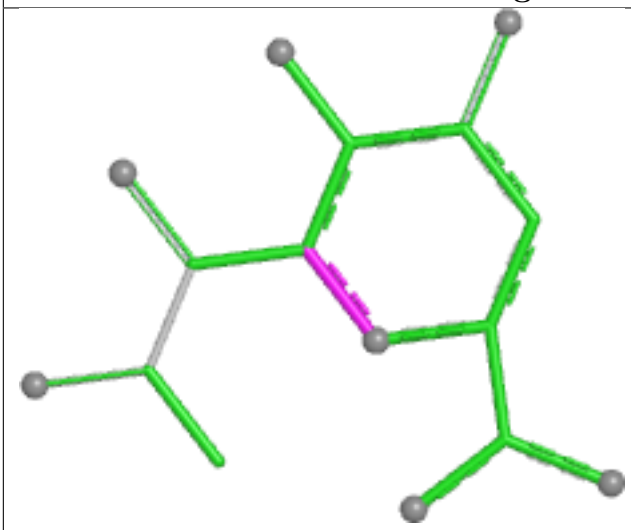


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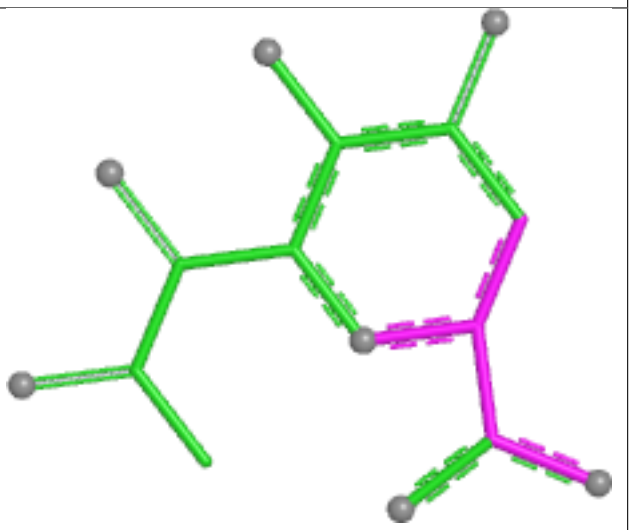


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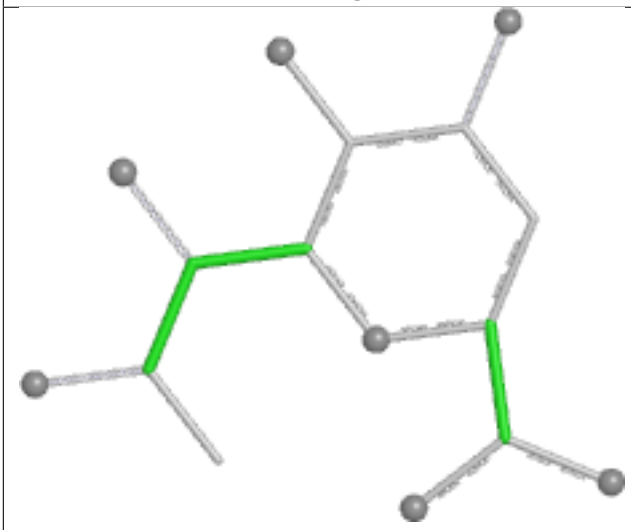
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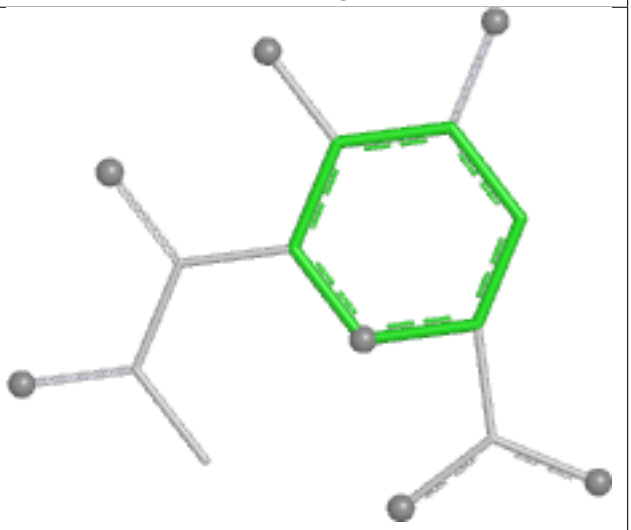
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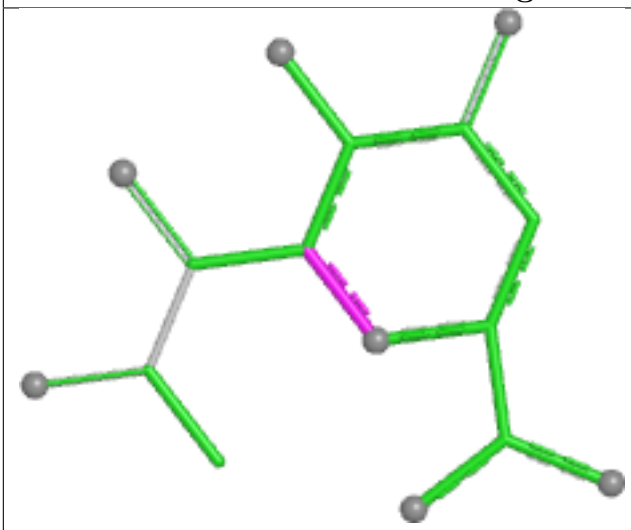


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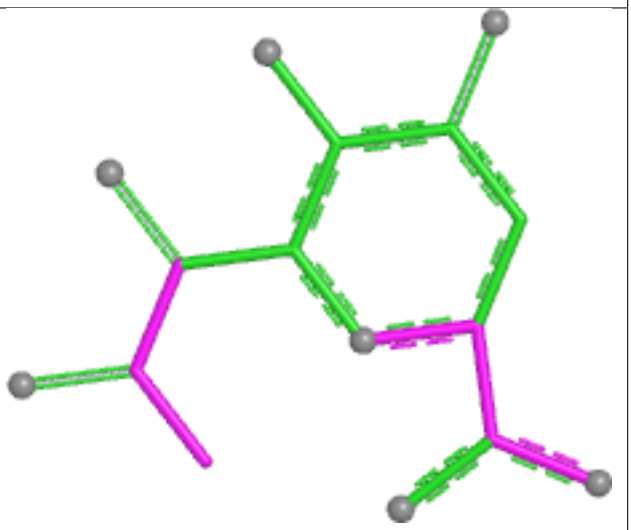


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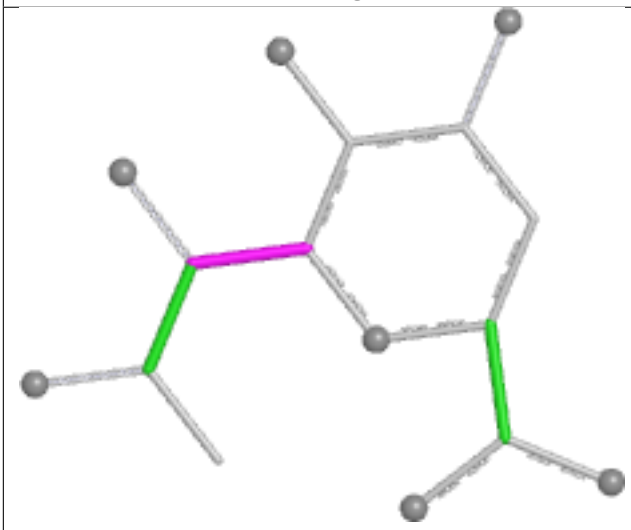
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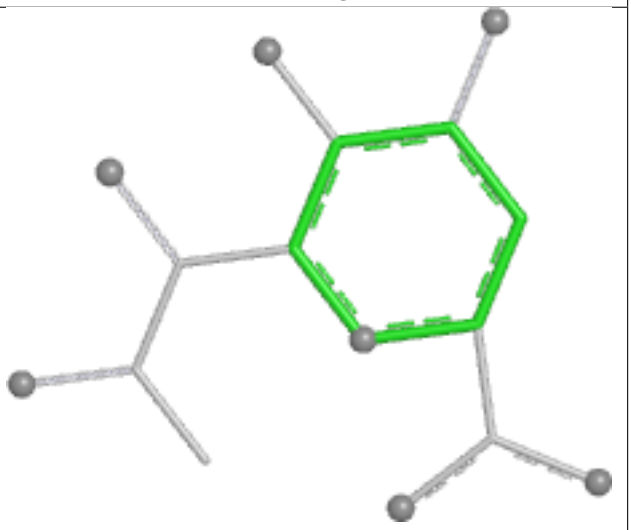
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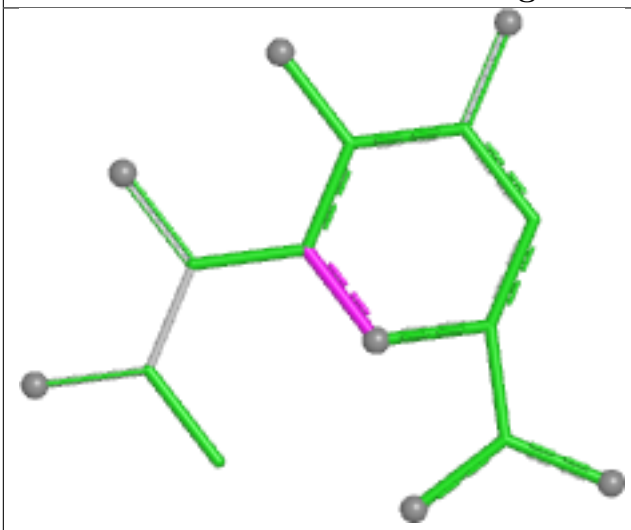


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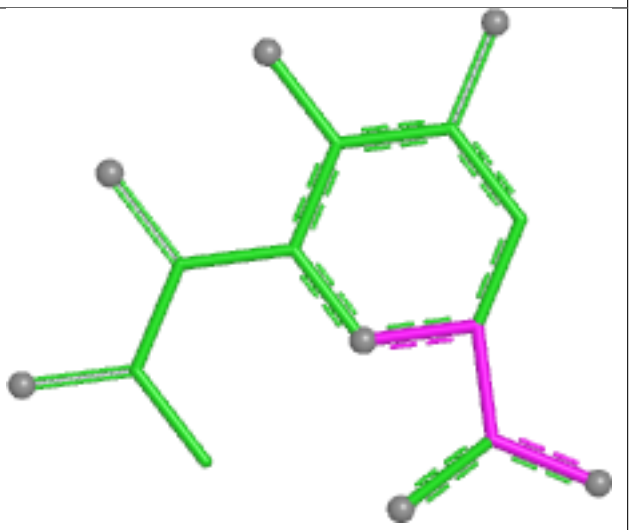


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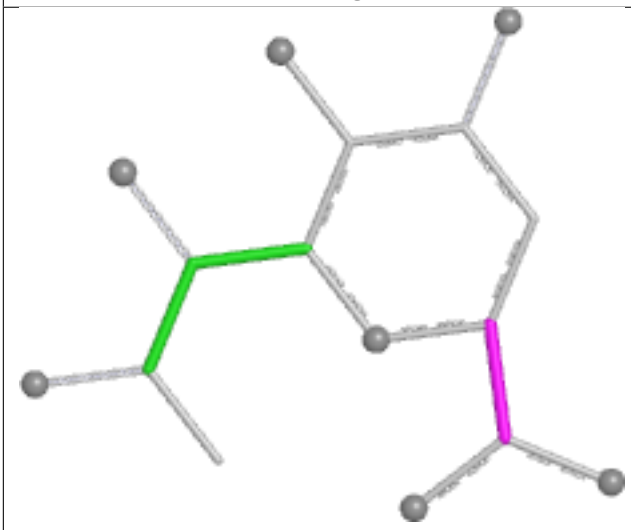
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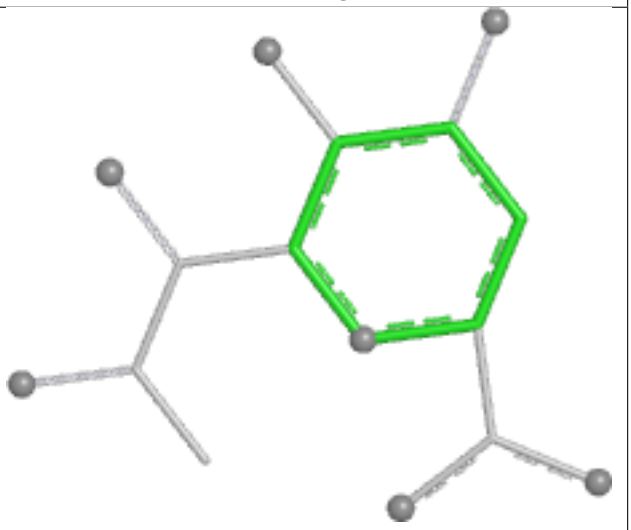
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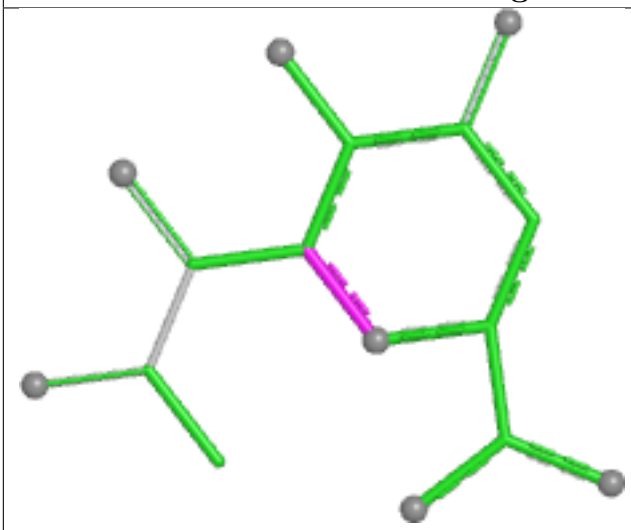


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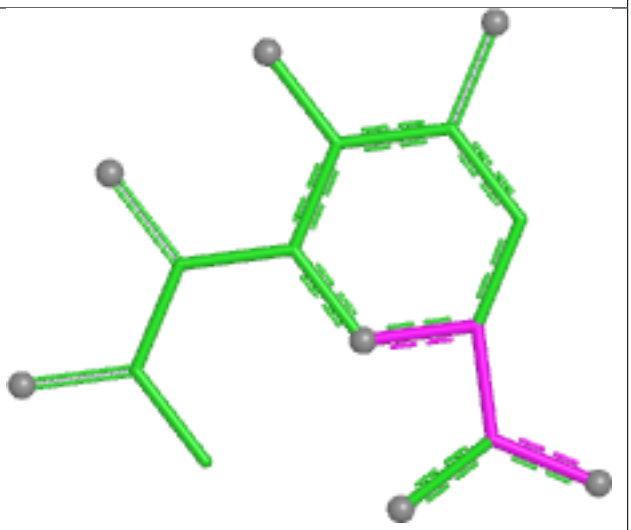


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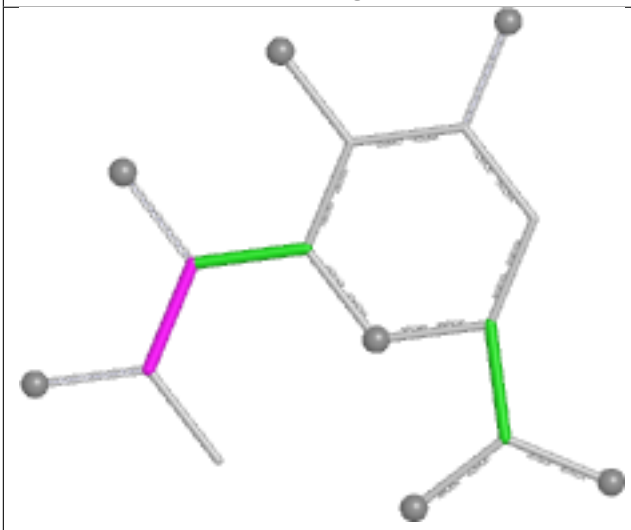
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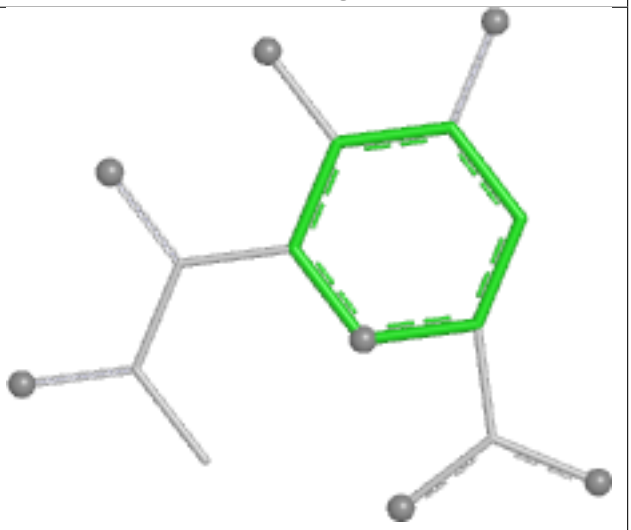
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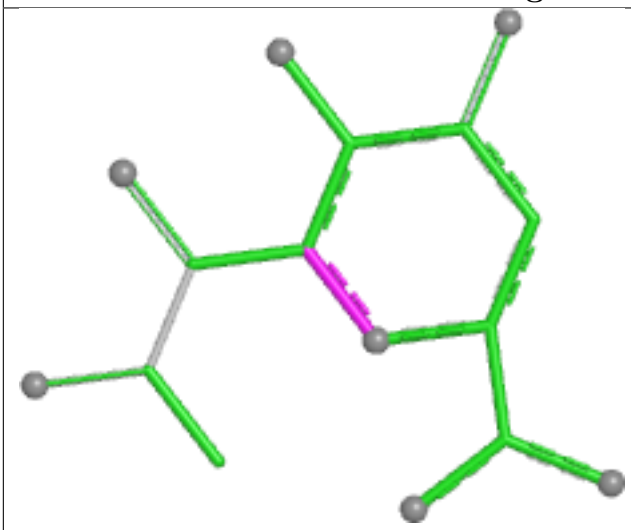


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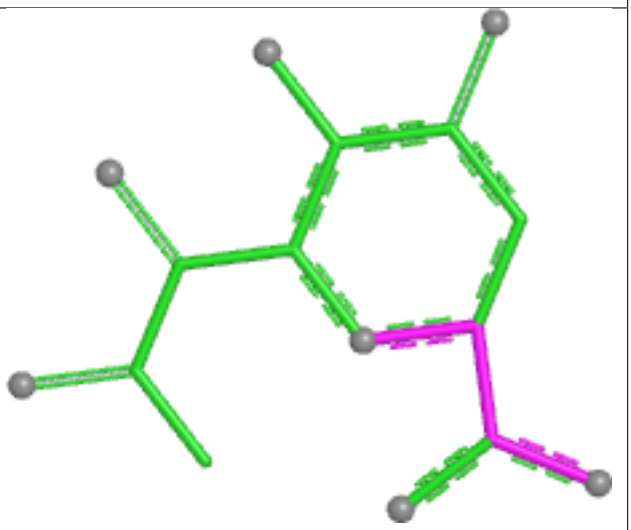


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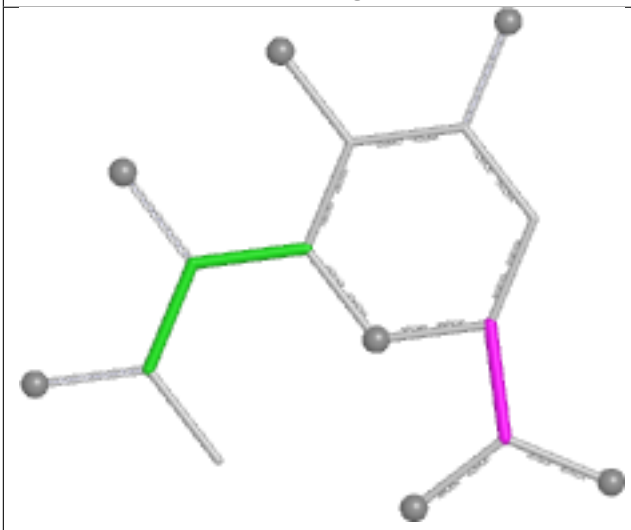
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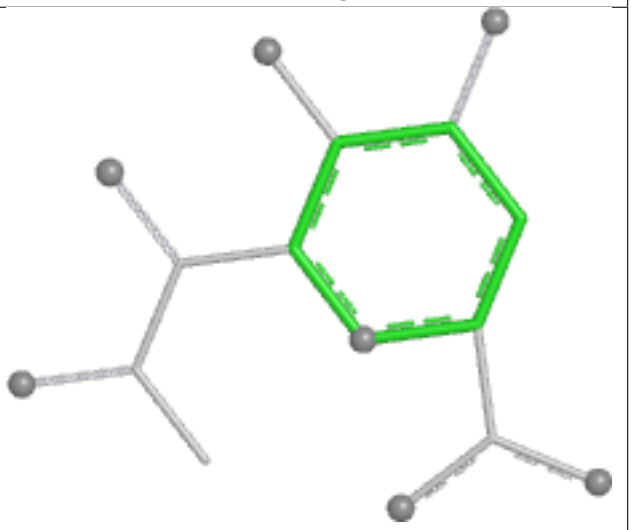
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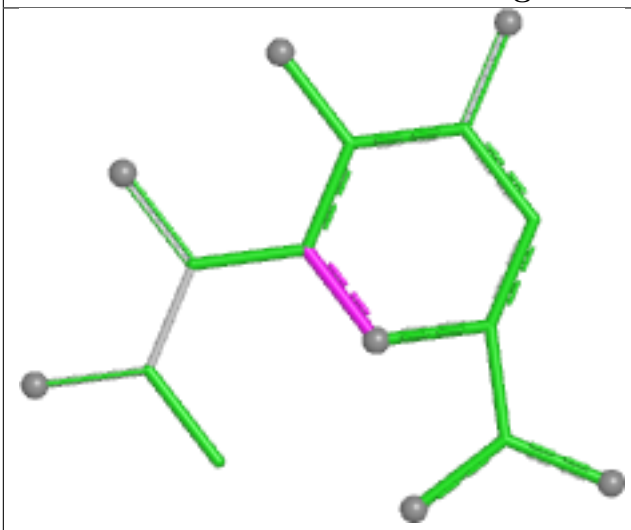


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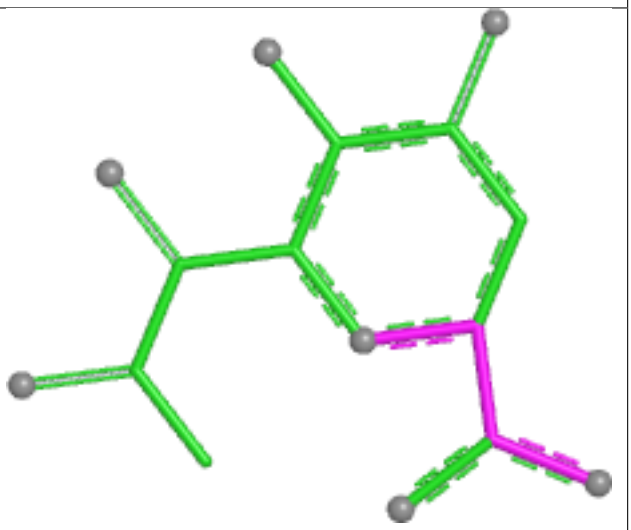


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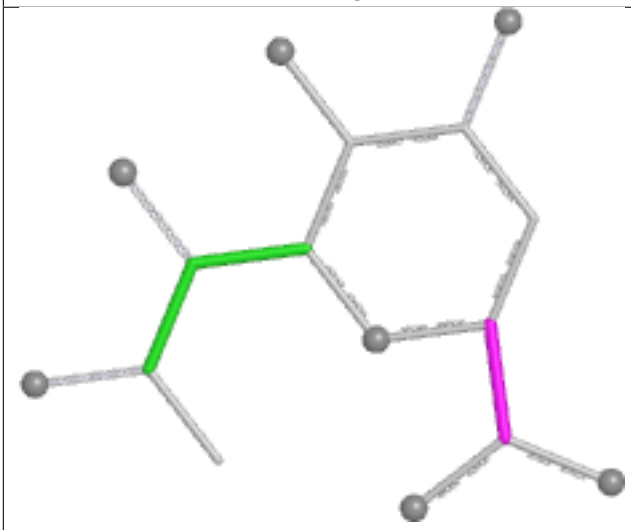
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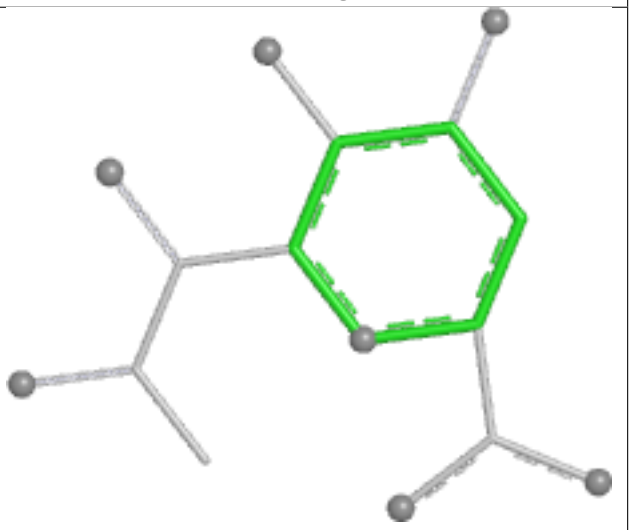
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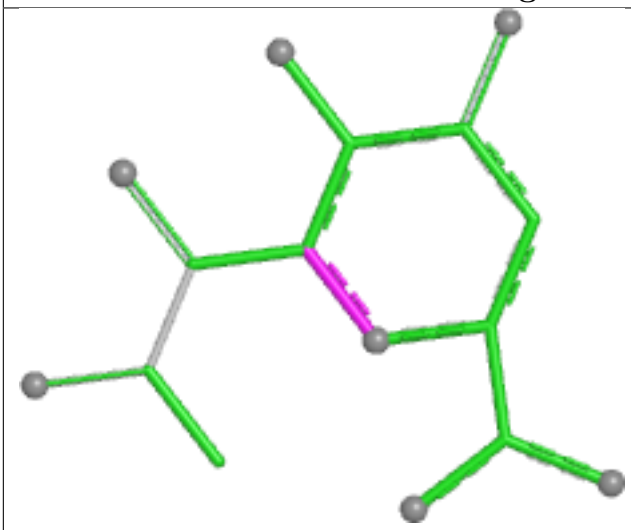


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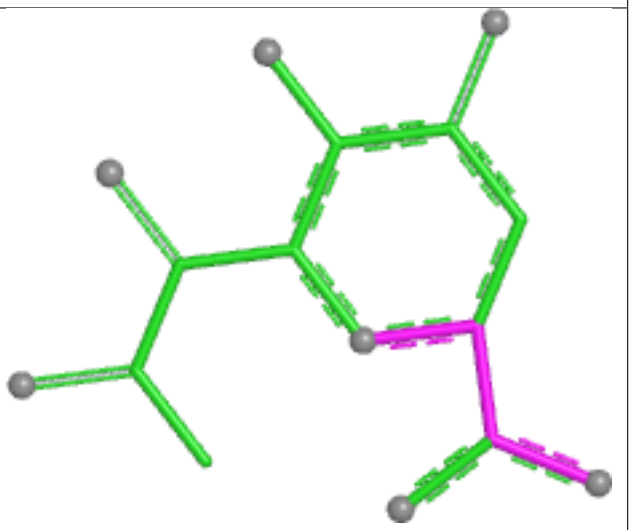


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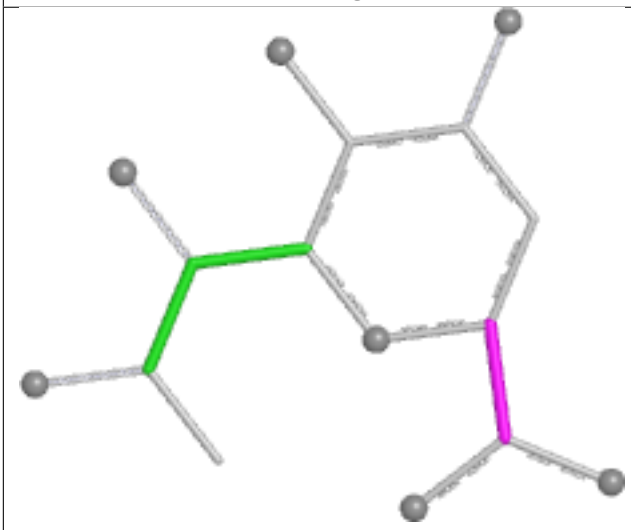
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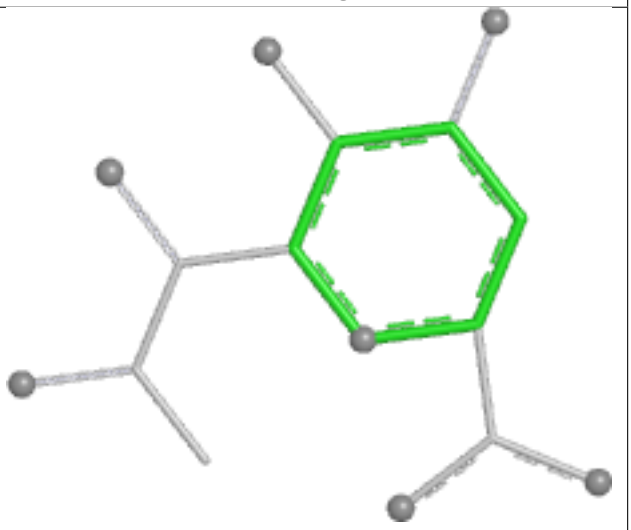
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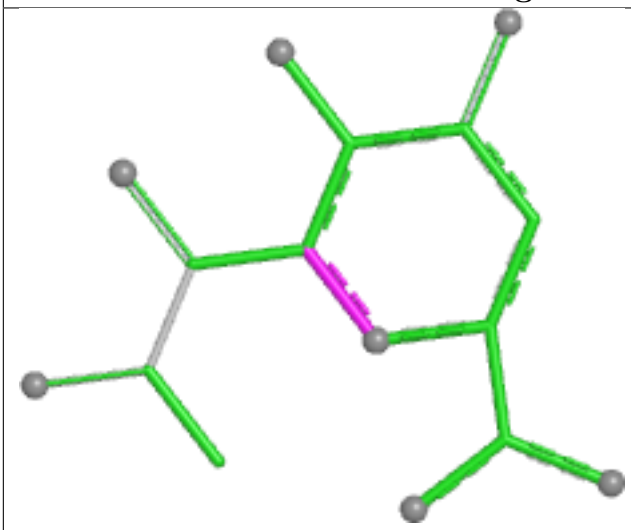


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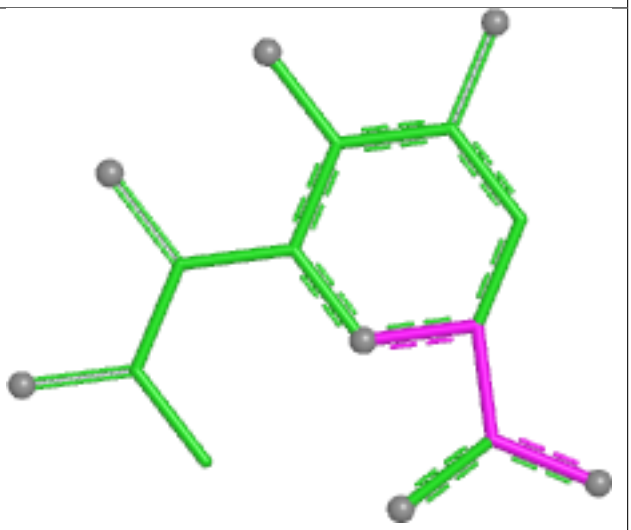


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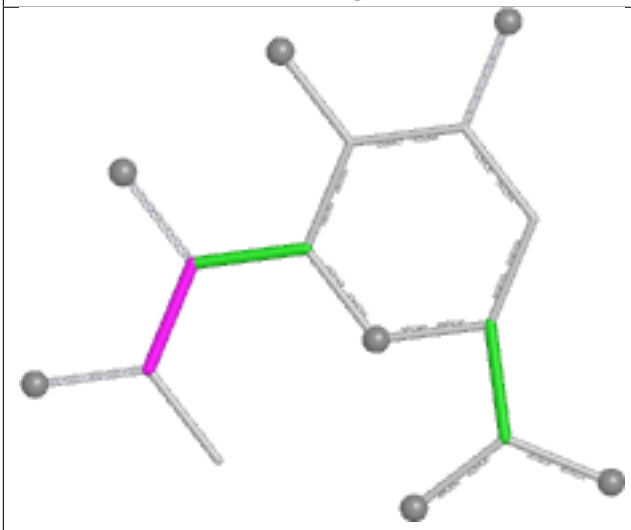
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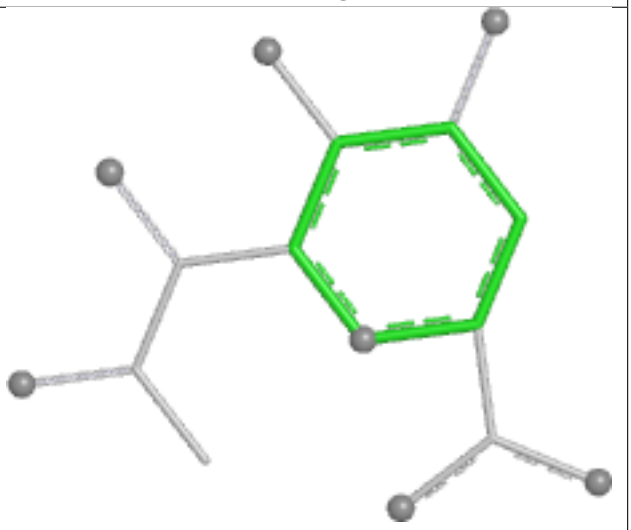
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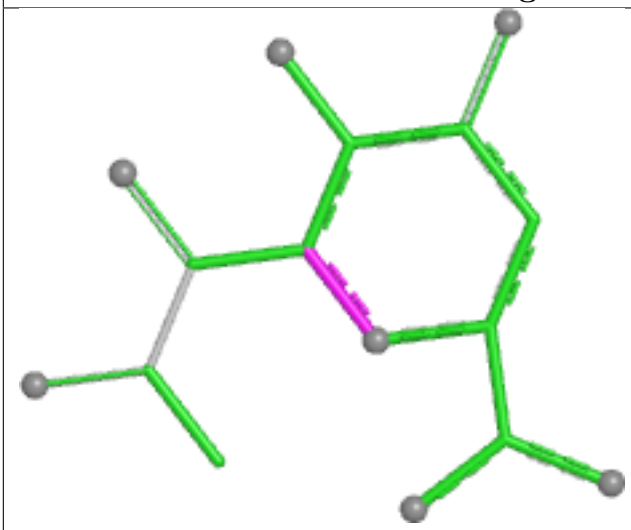


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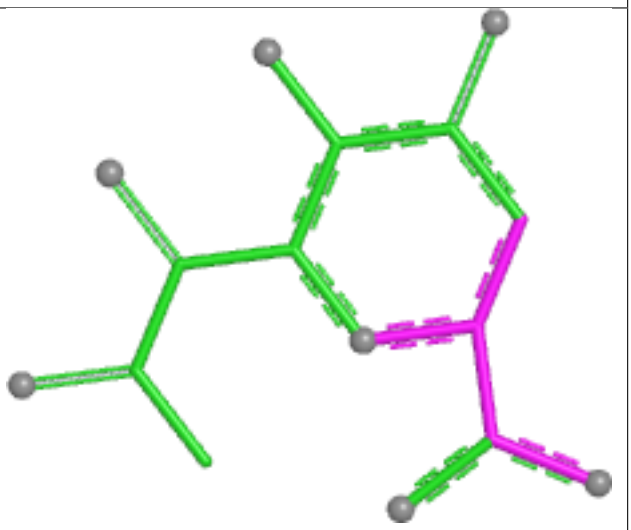


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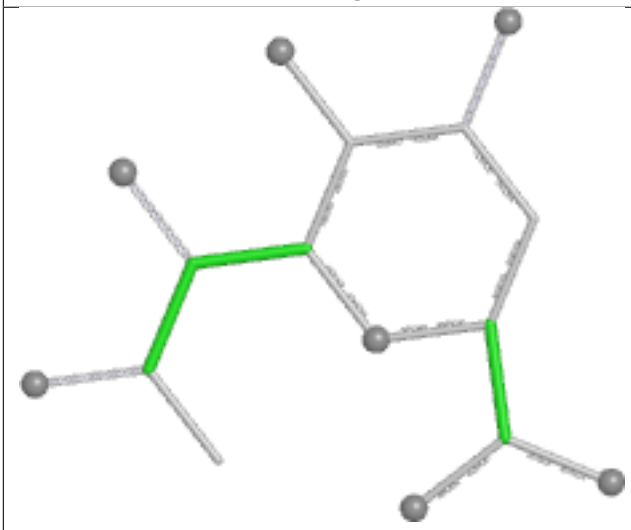
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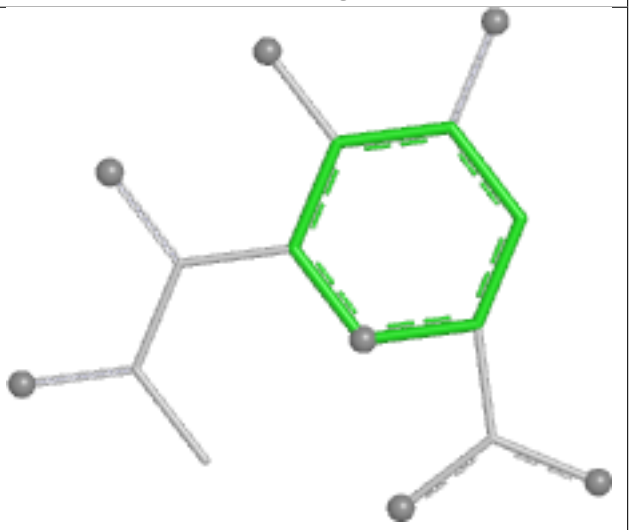
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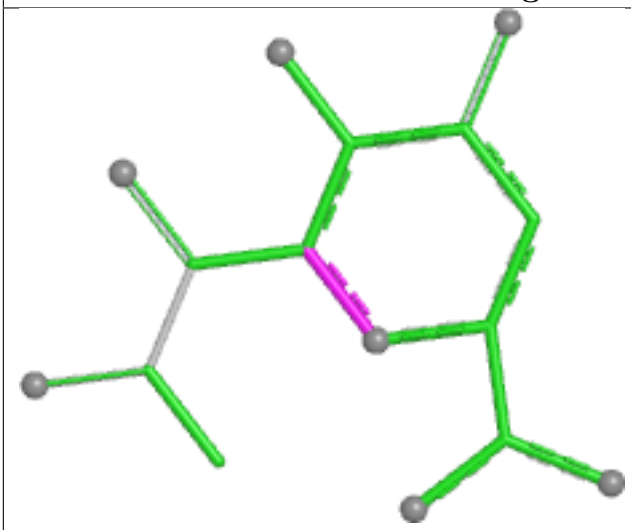


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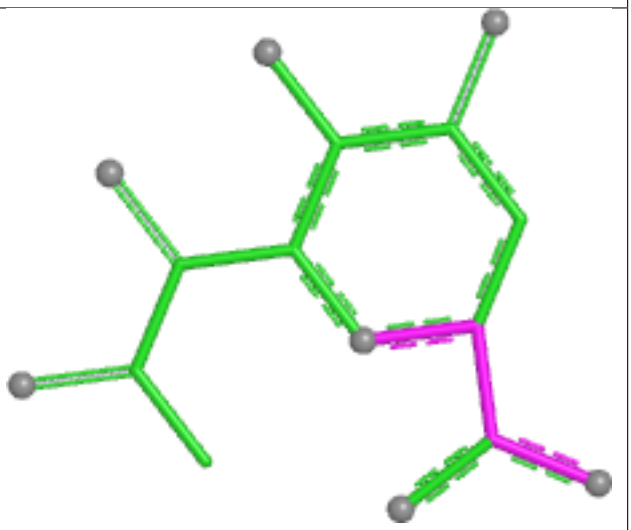


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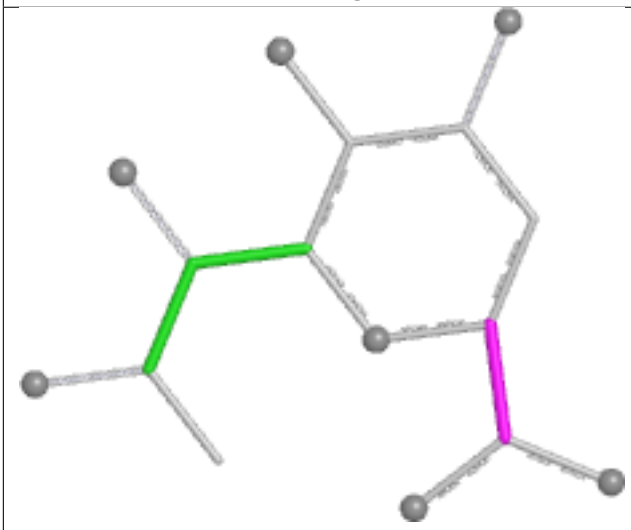
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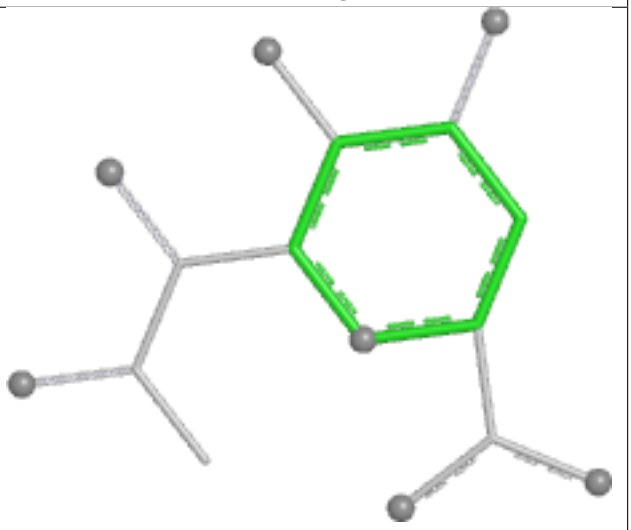
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Bond angles

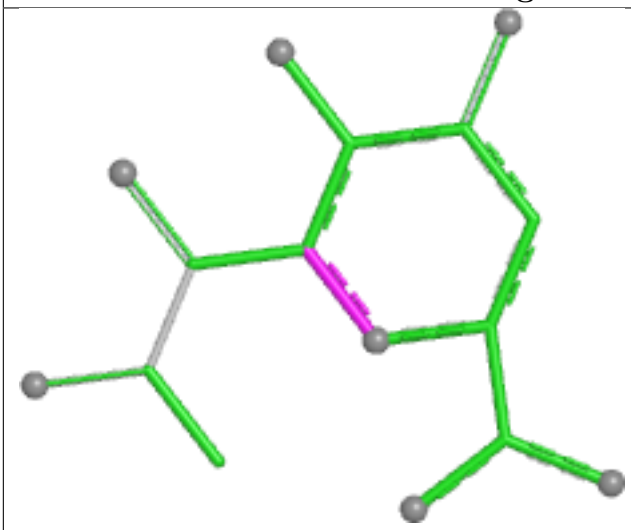


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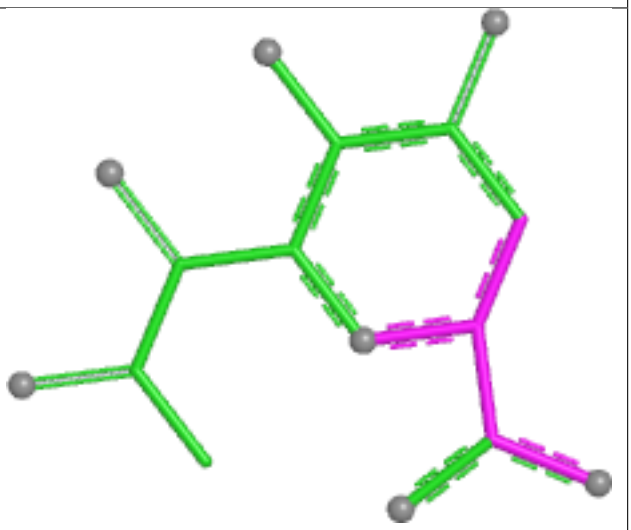


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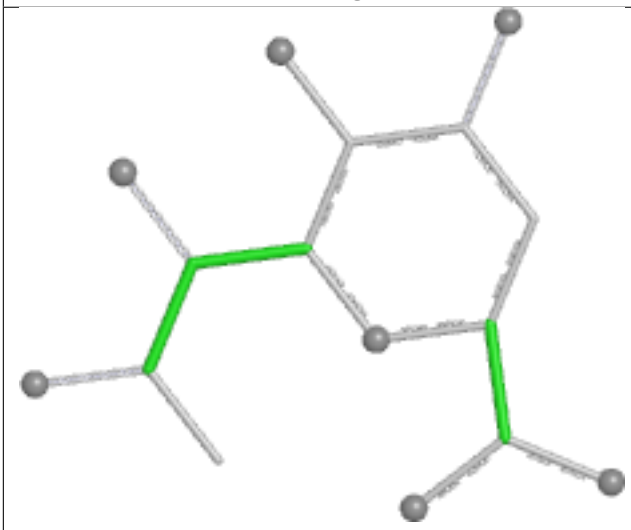
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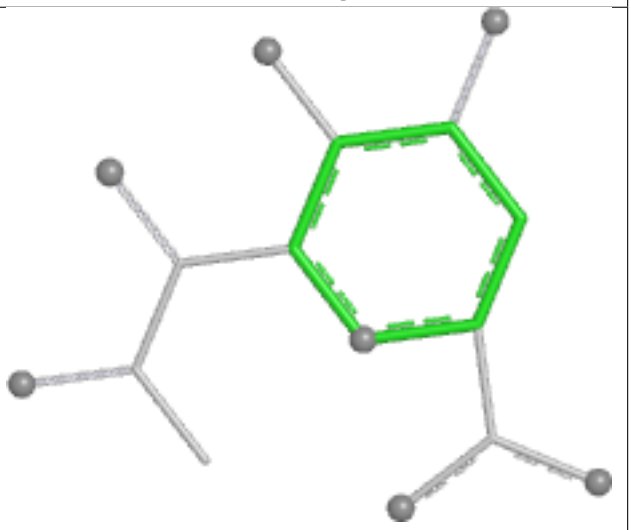
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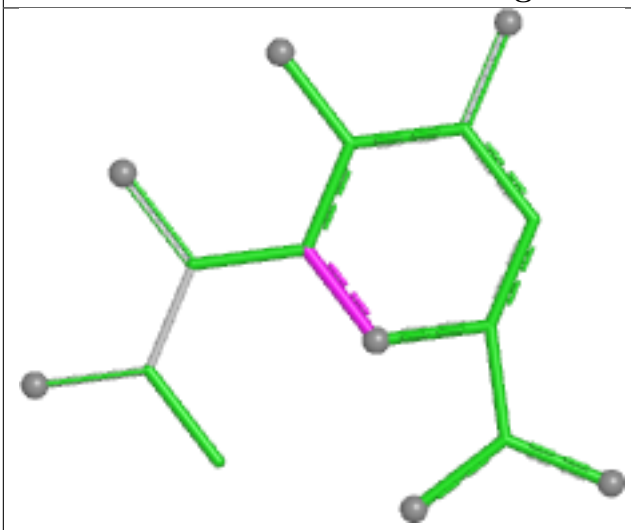


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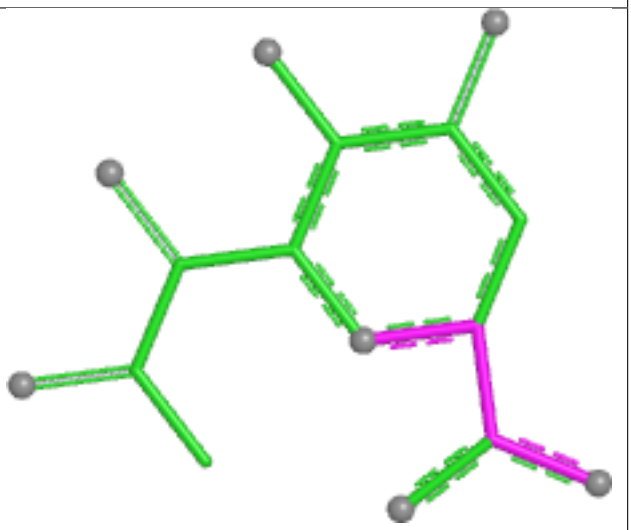


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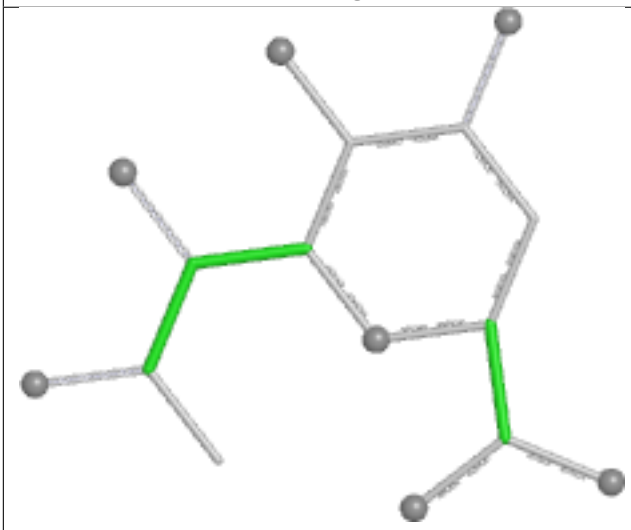
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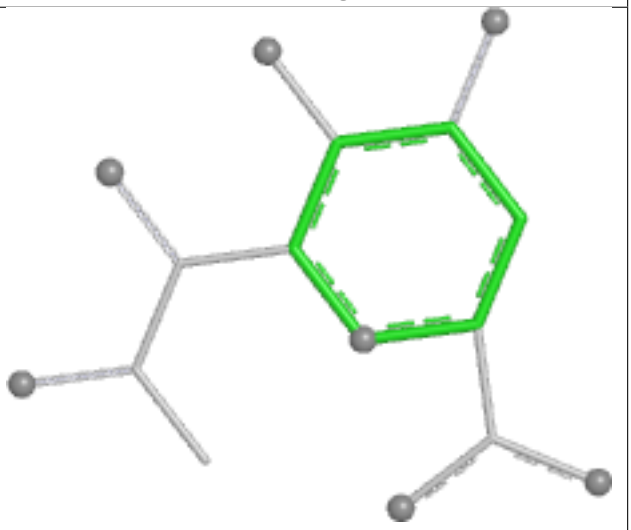
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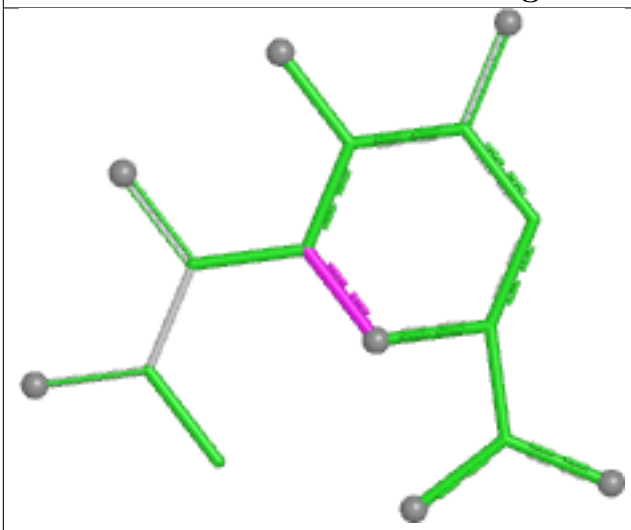


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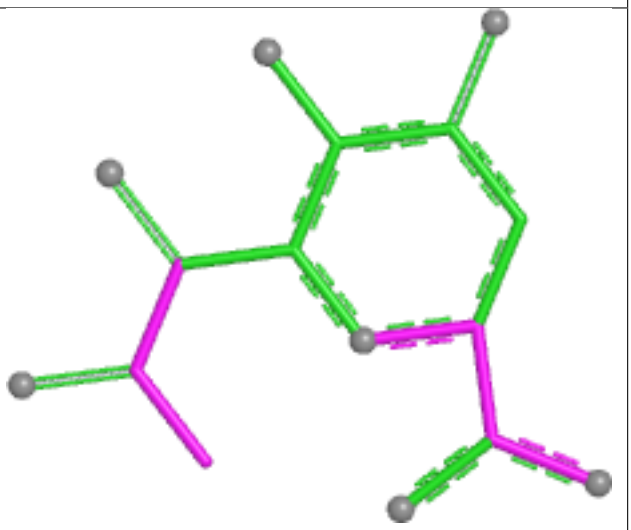


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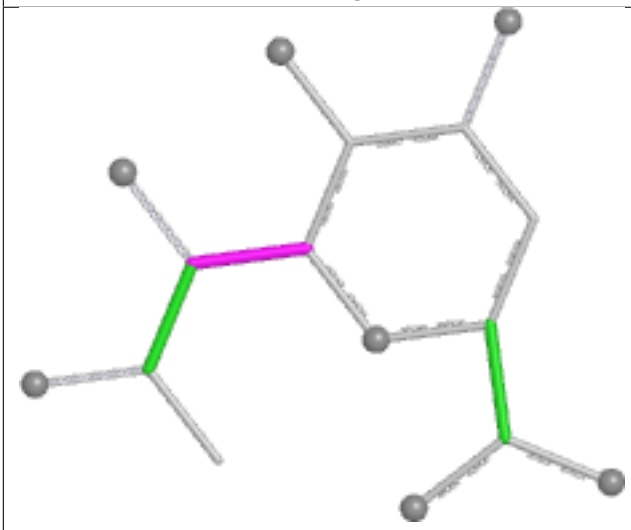
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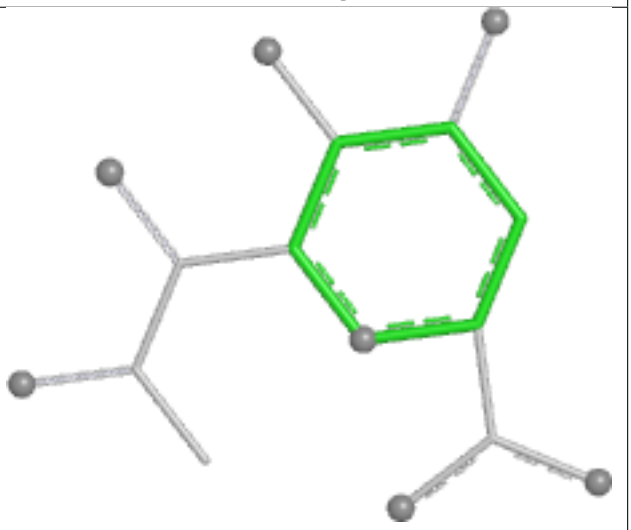
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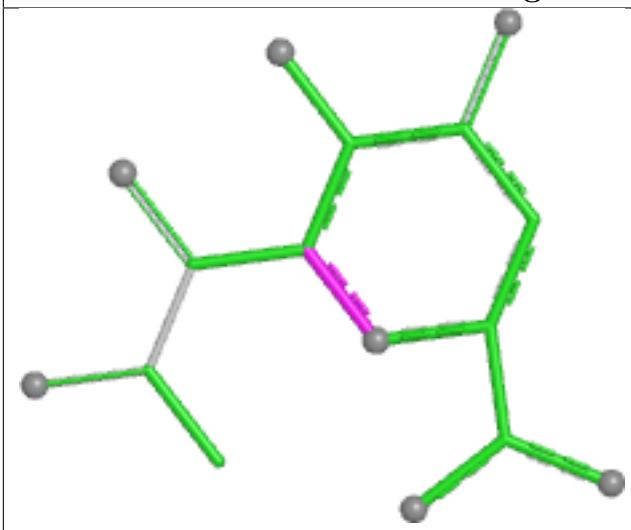


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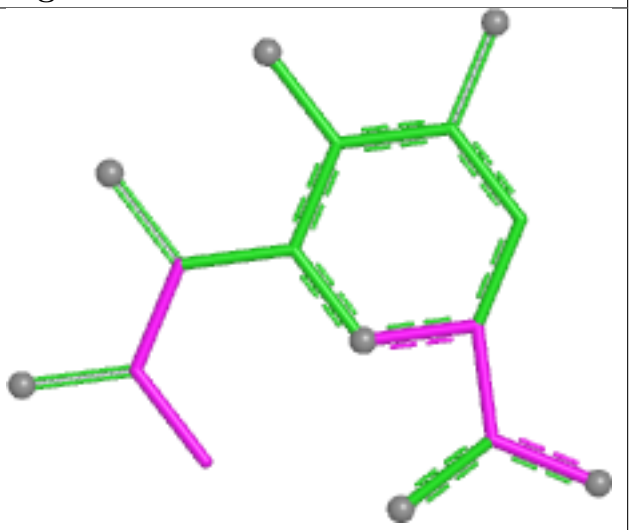


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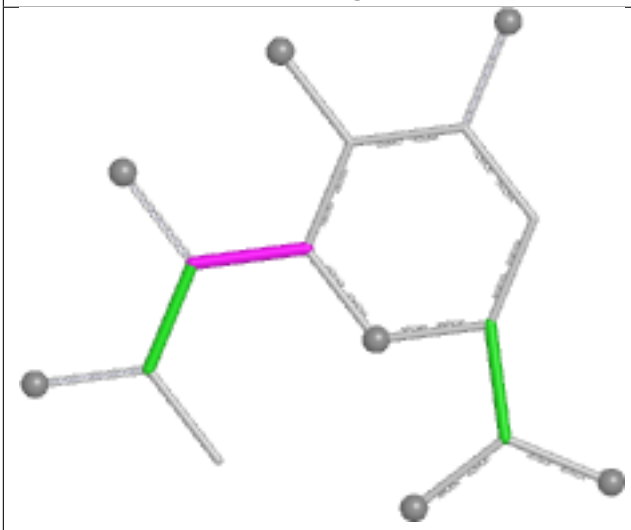
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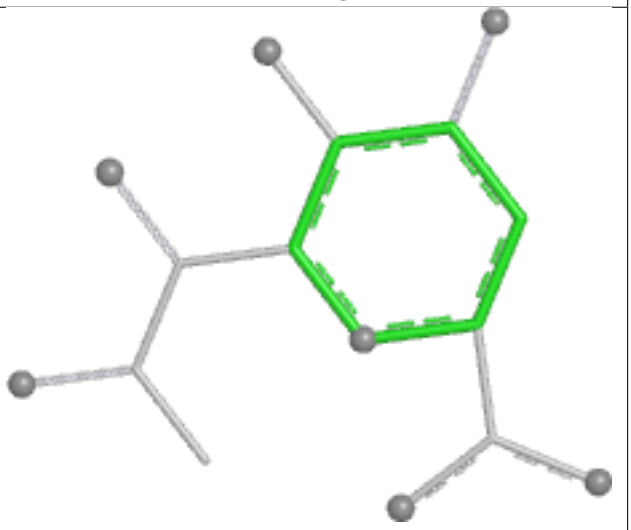
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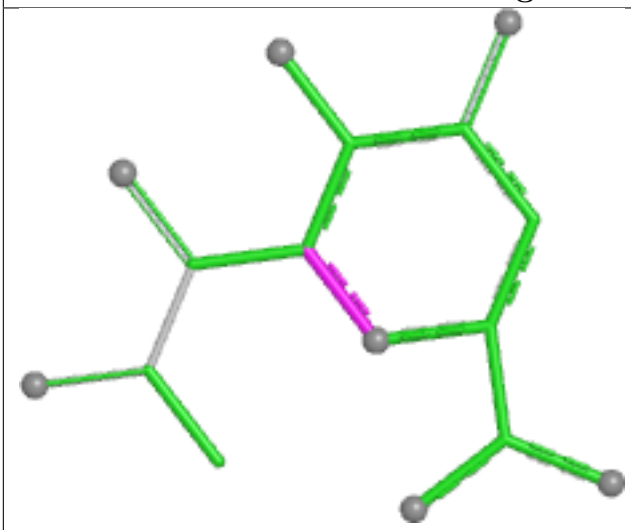


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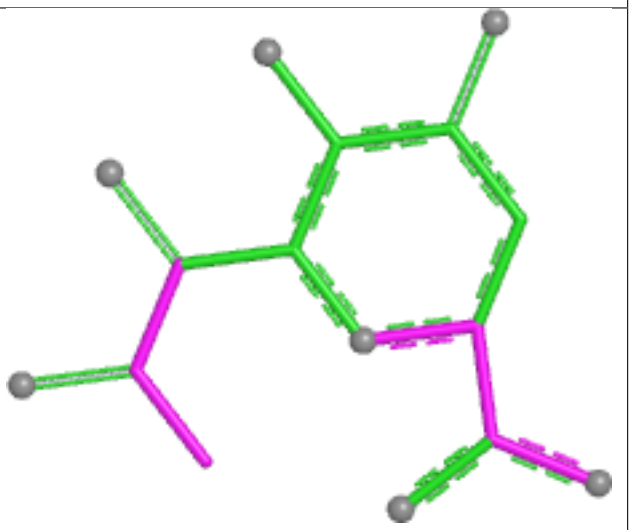


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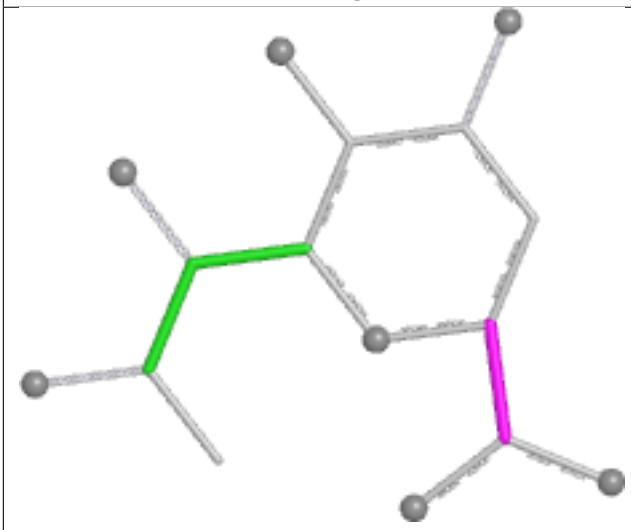
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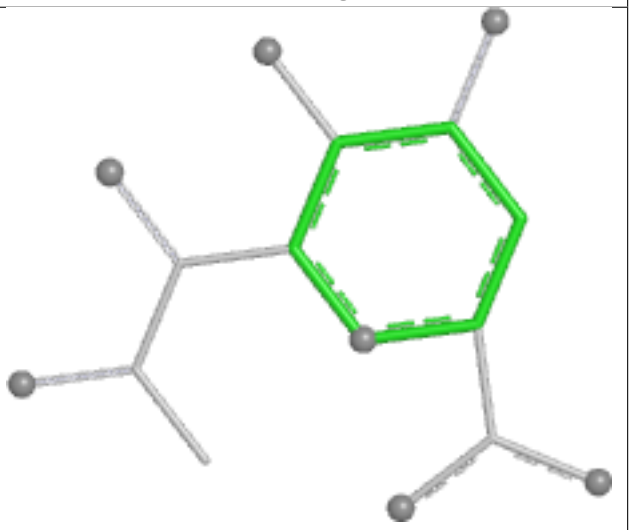
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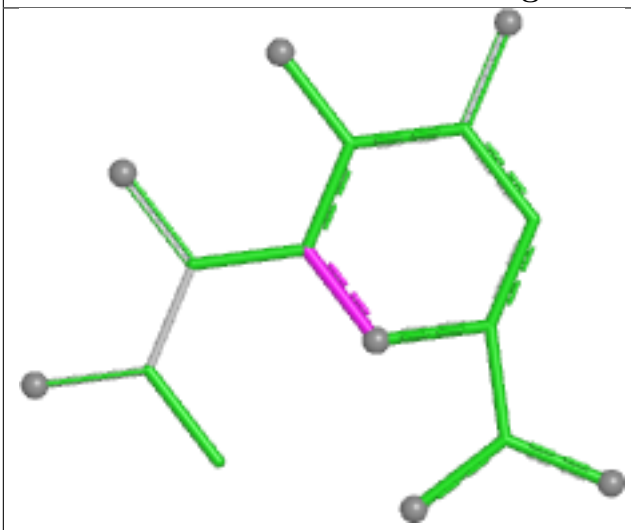


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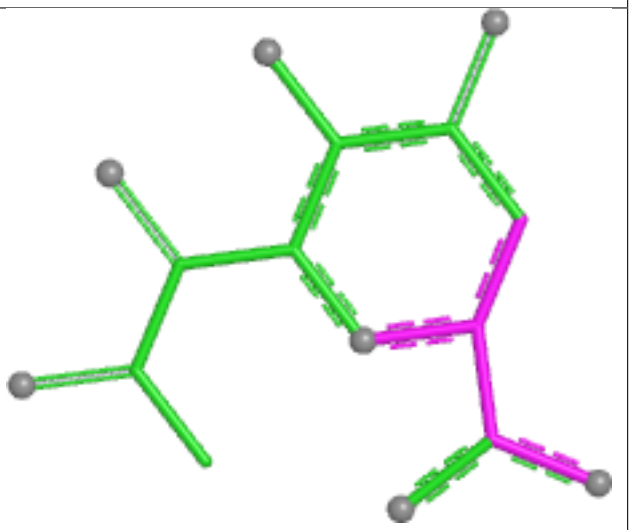


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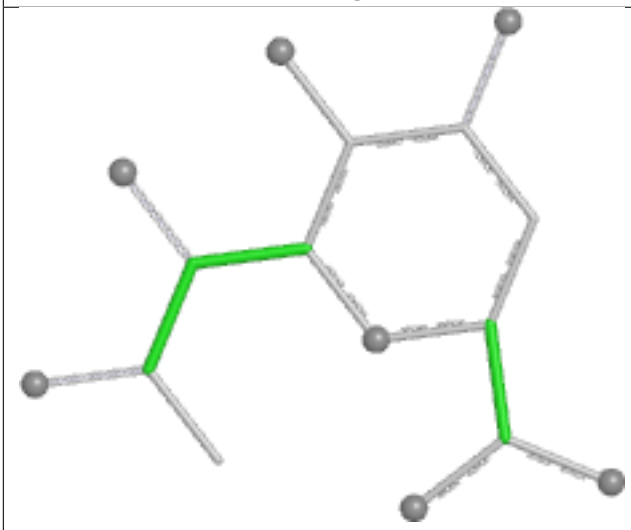
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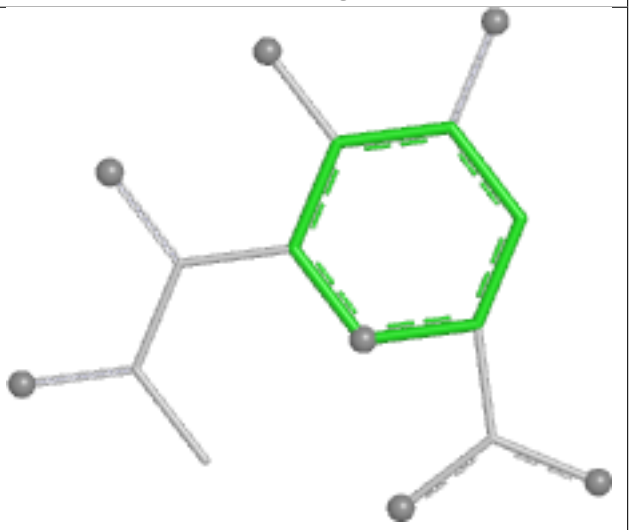
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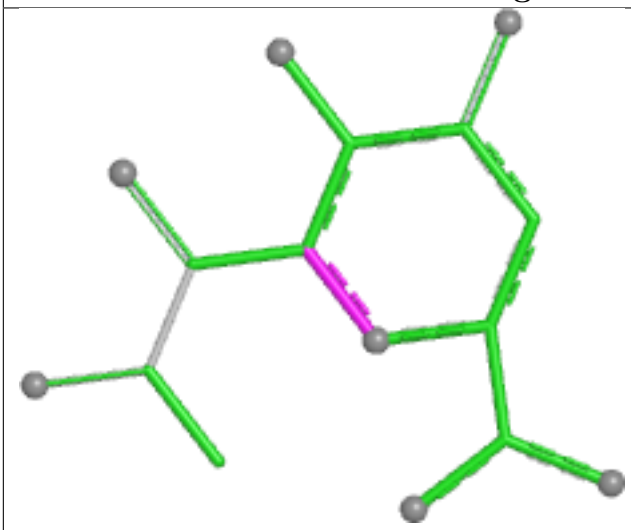


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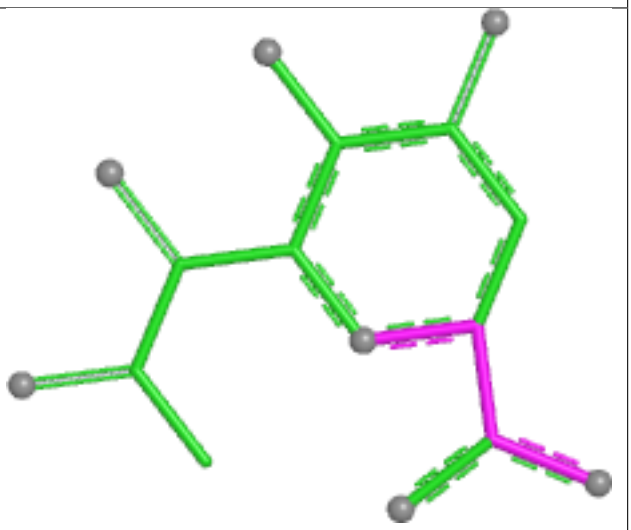


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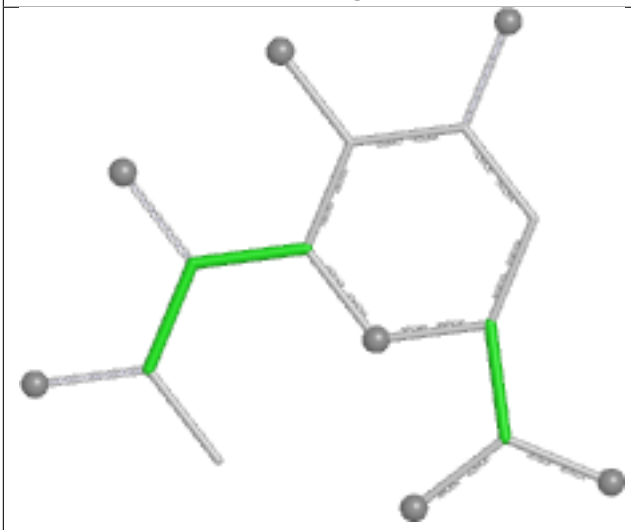
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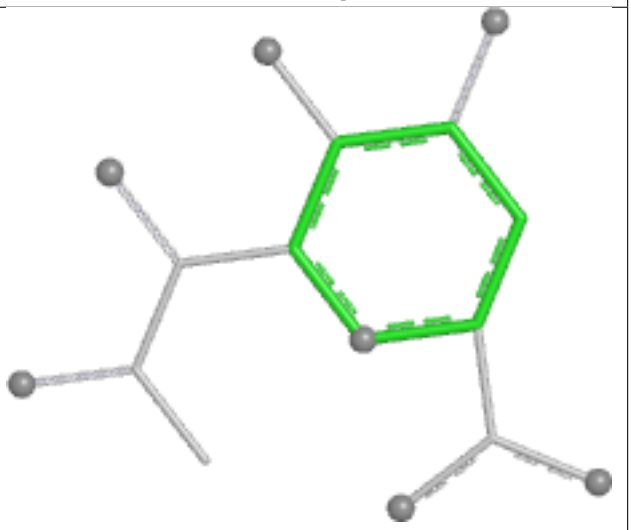
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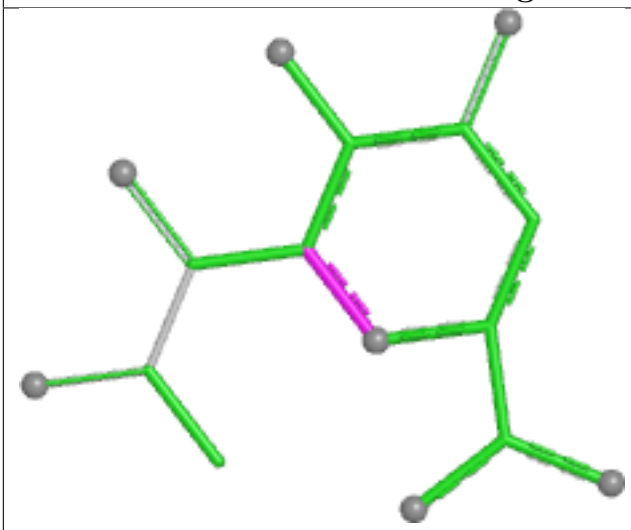


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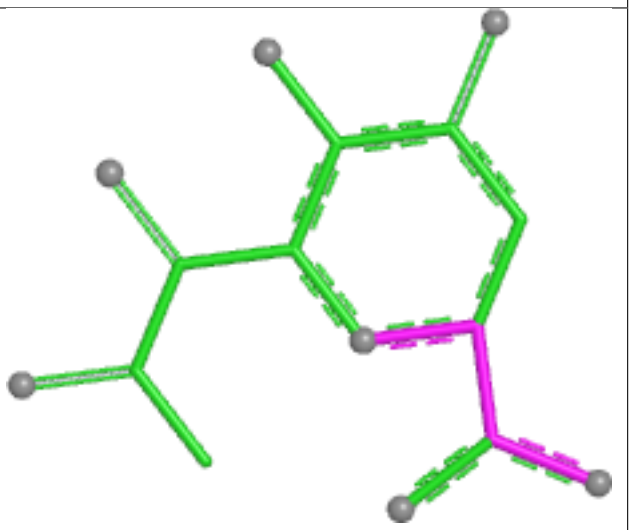


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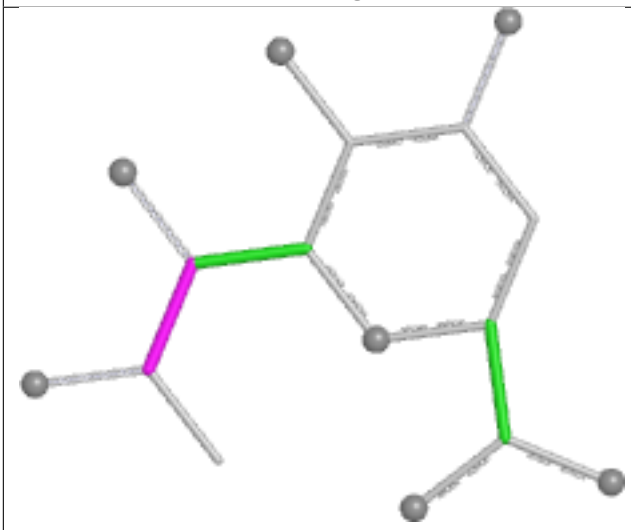
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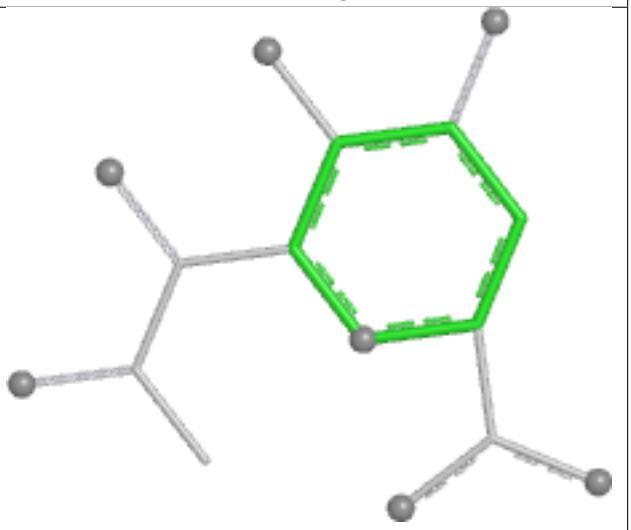
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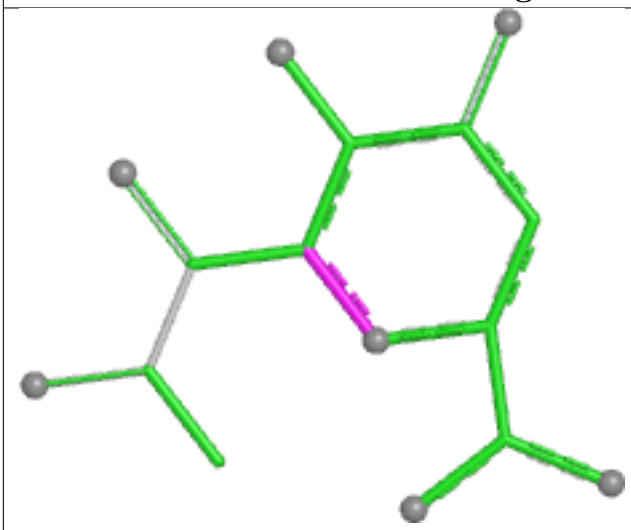


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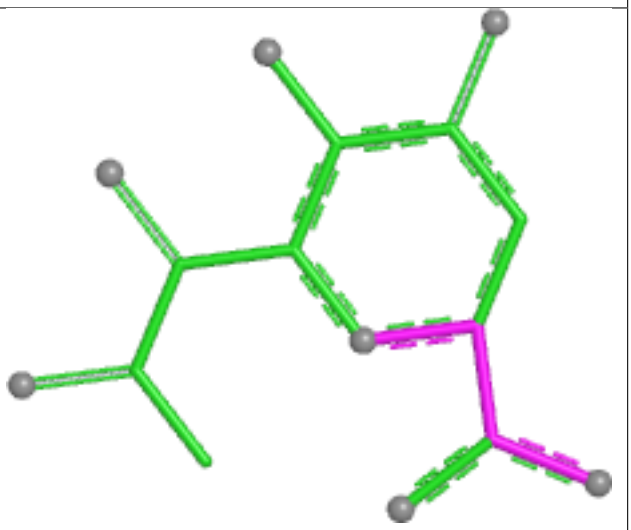


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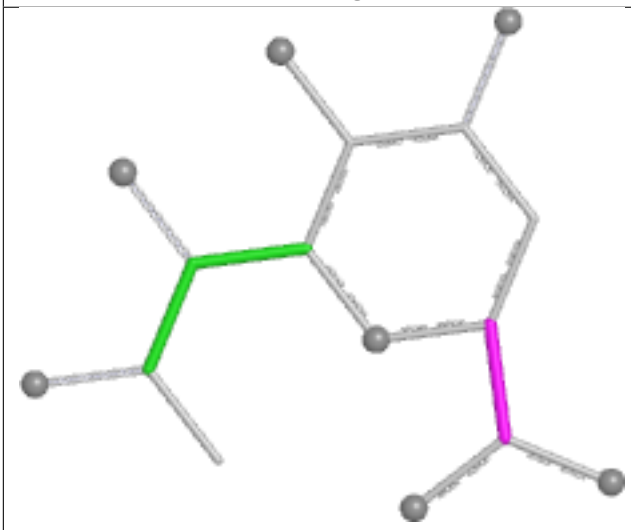
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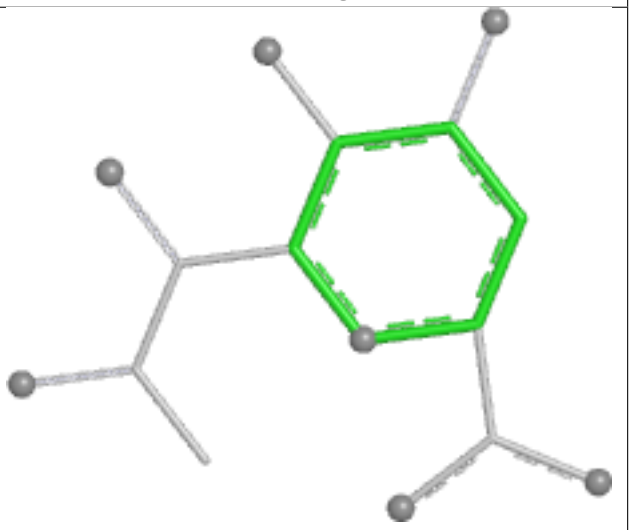
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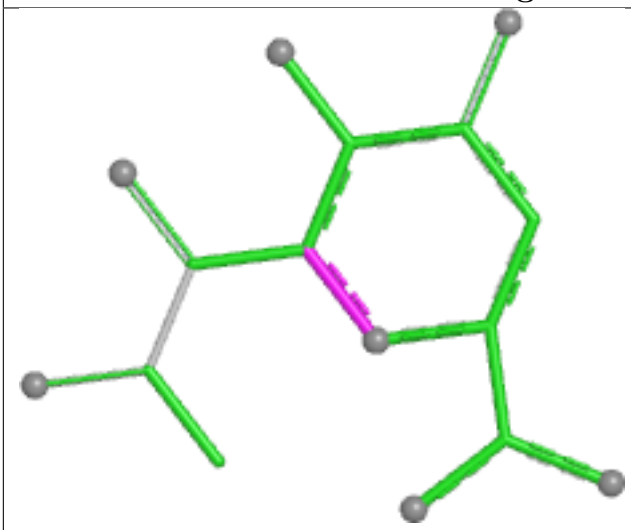


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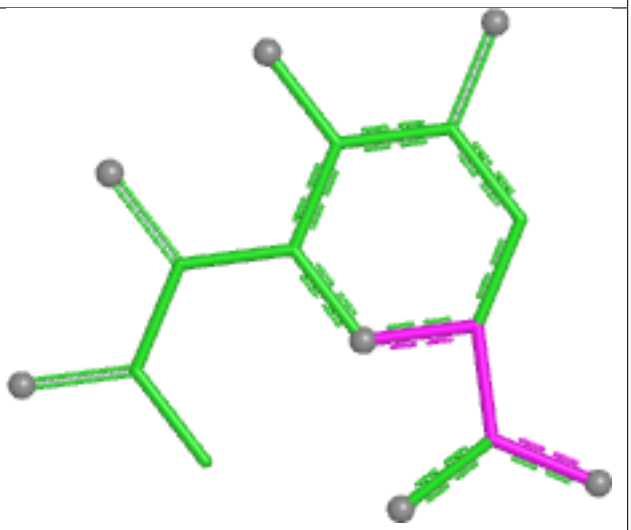


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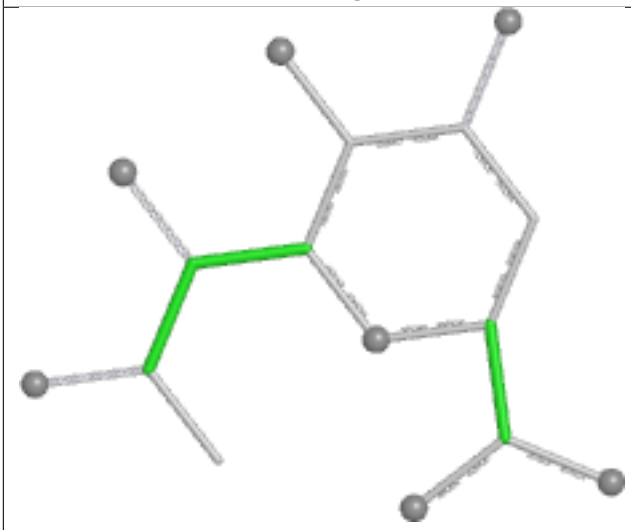
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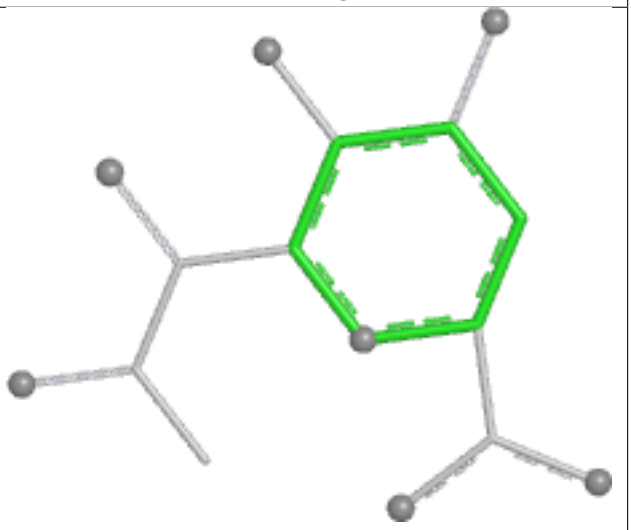
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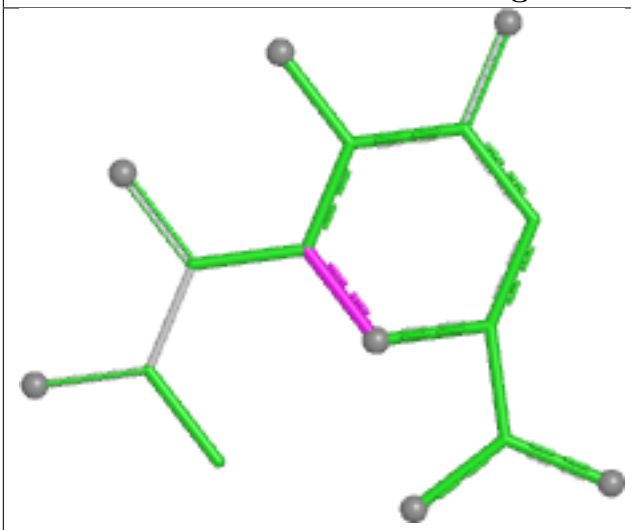


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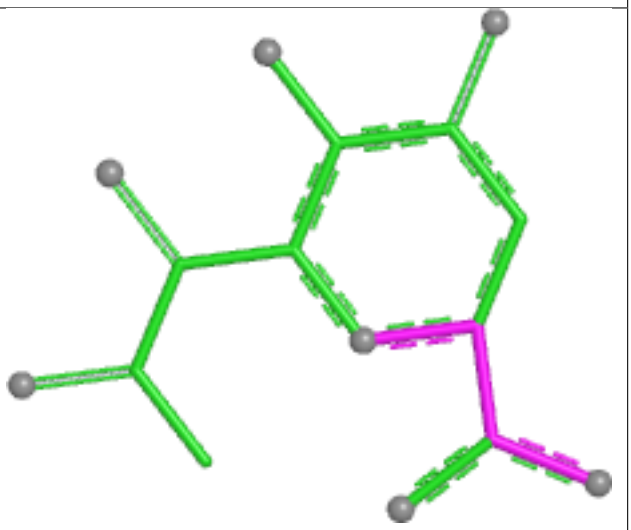


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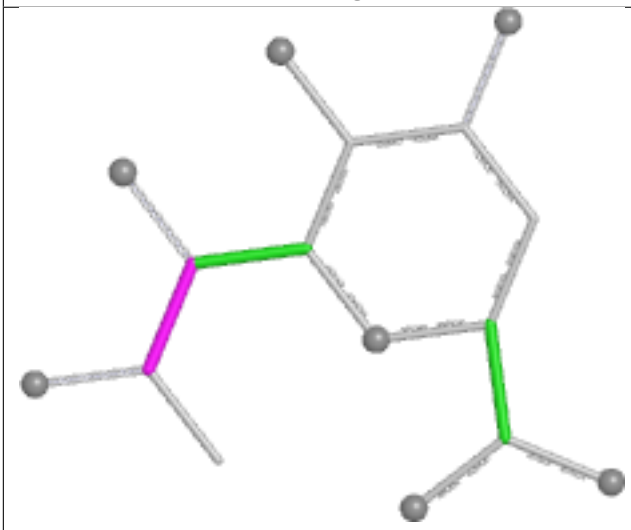
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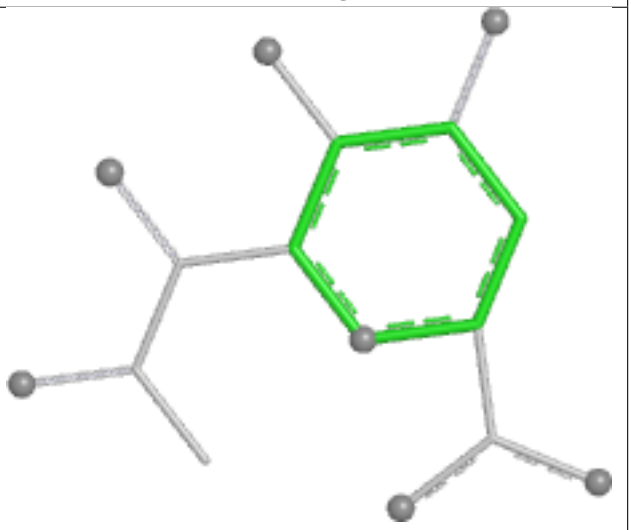
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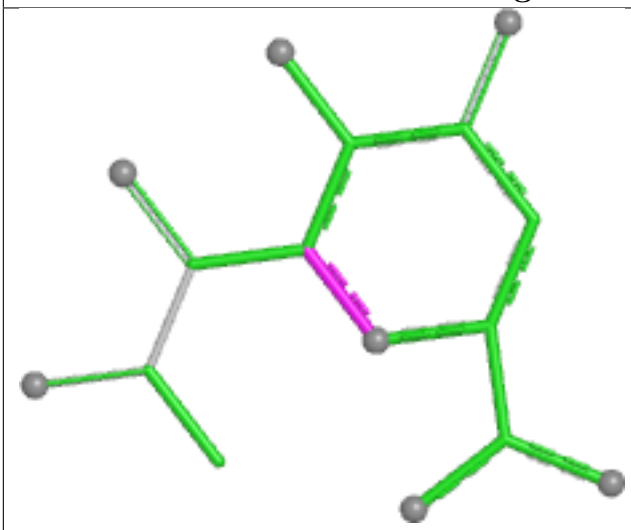


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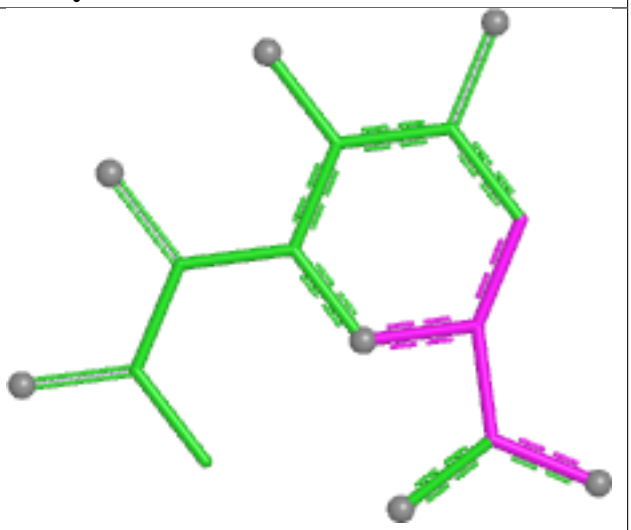


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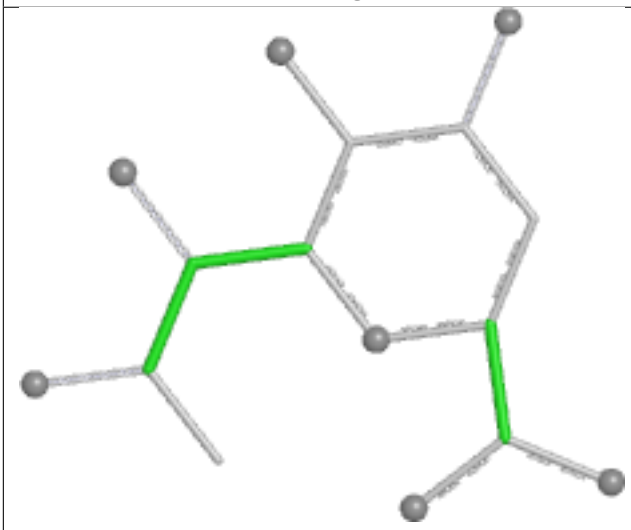
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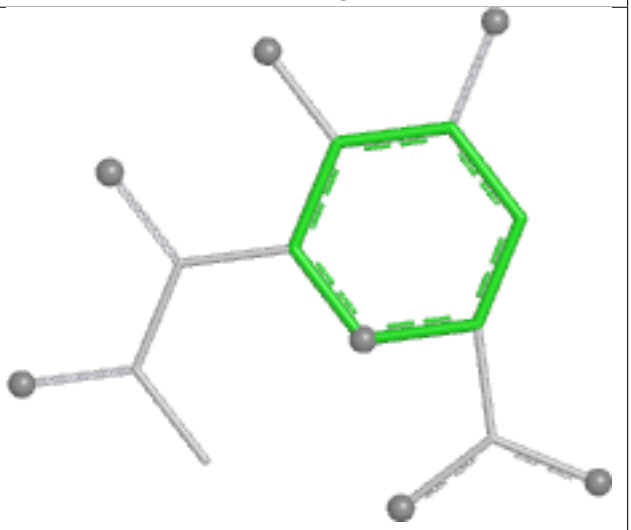
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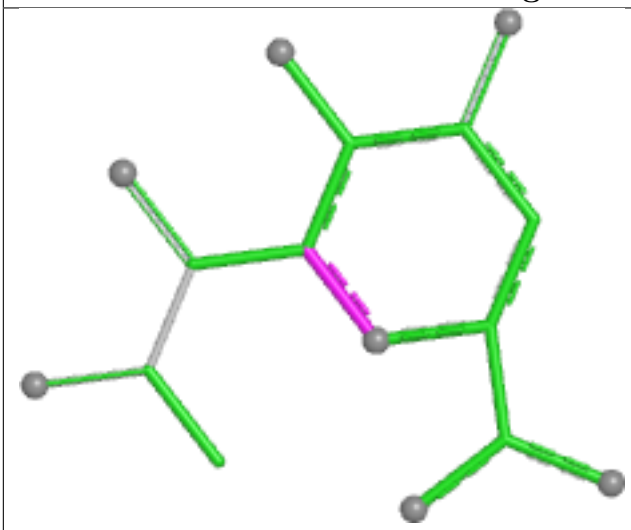


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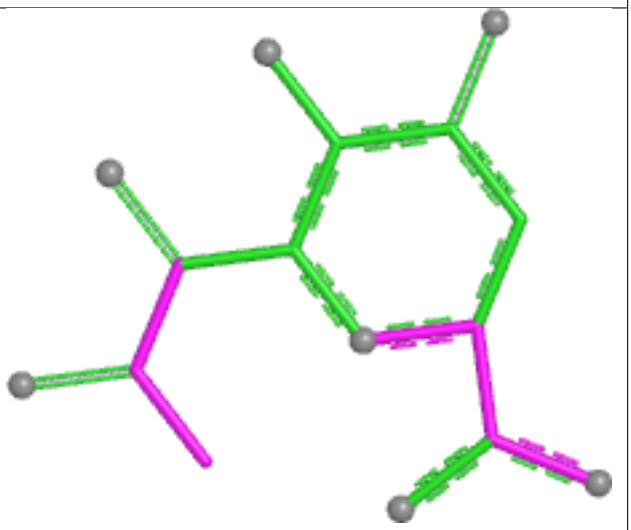


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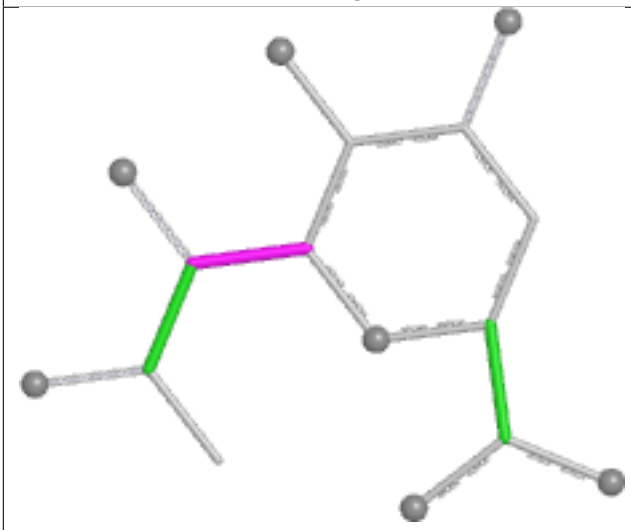
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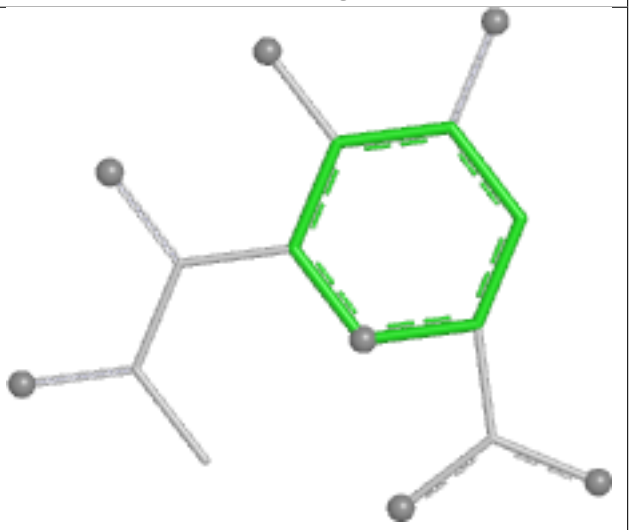
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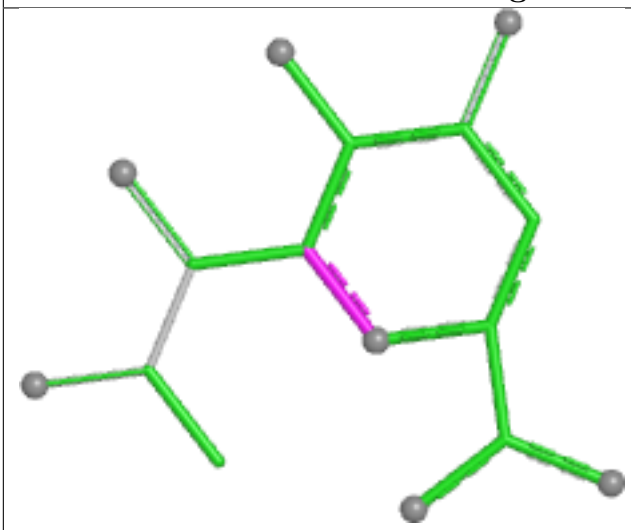


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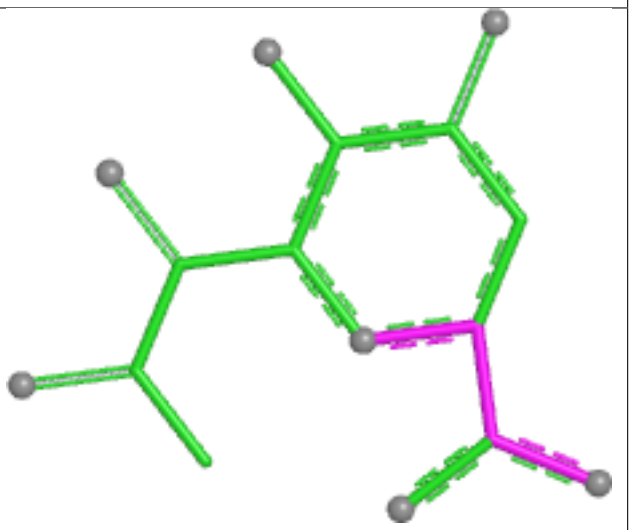


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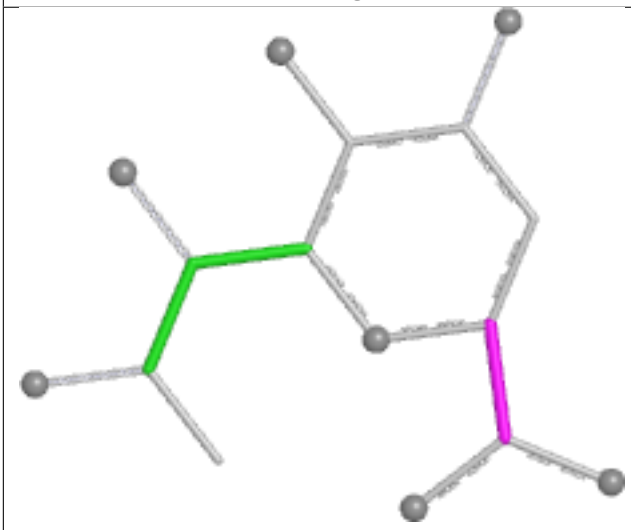
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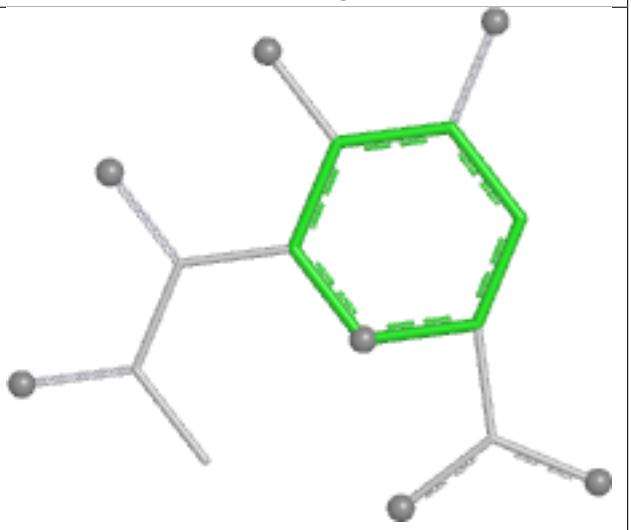
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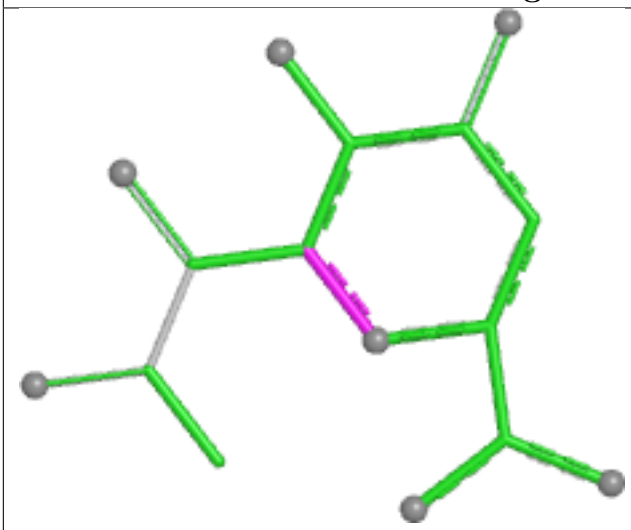


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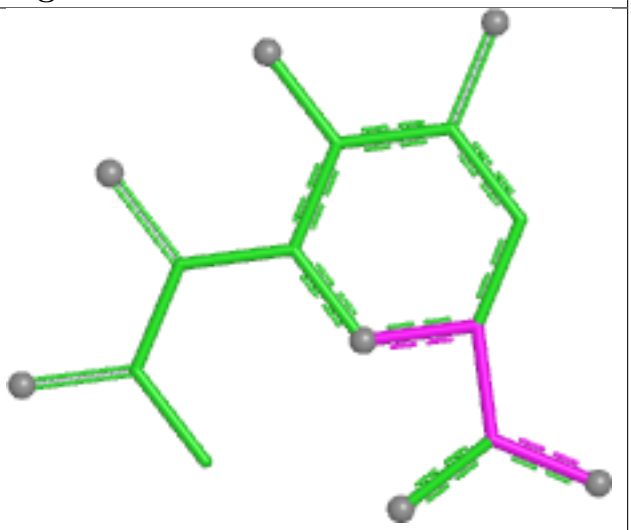


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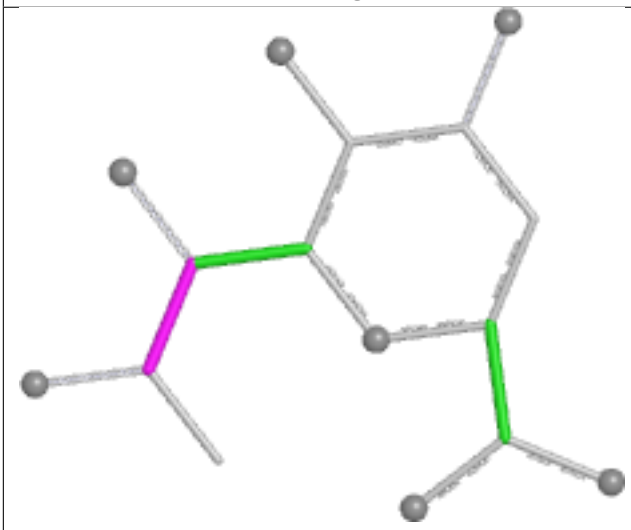
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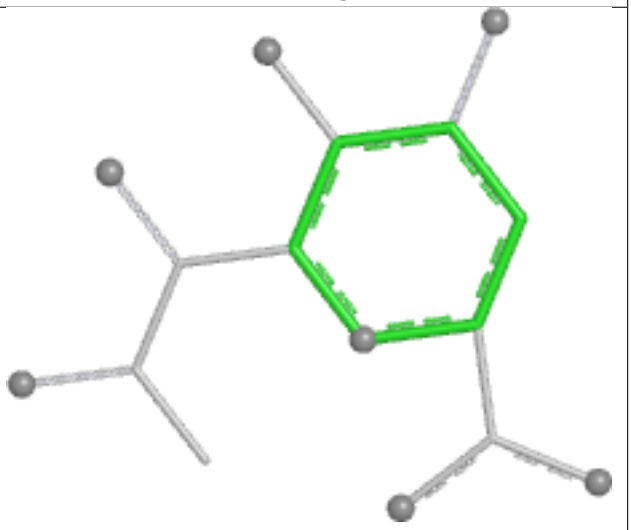
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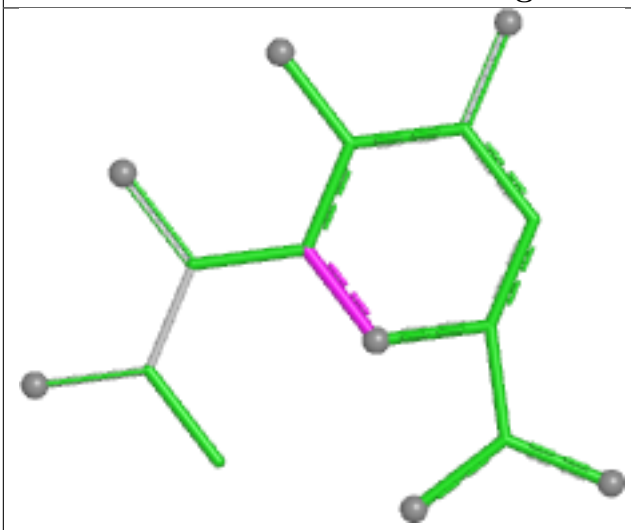


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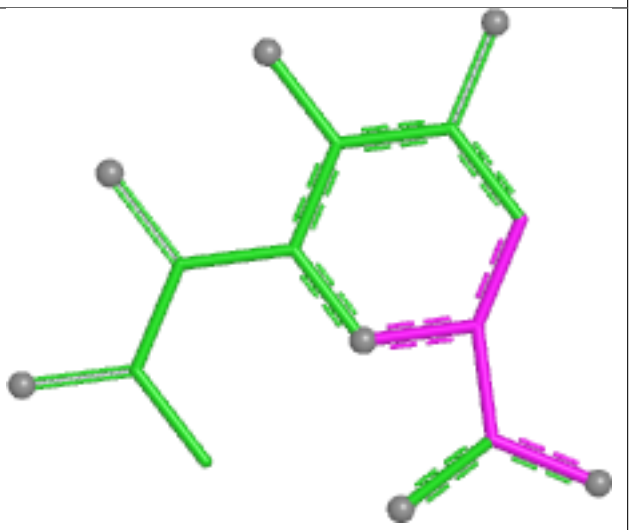


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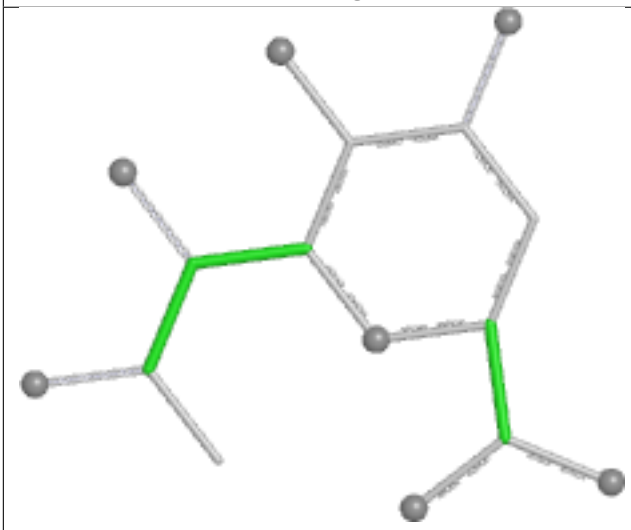
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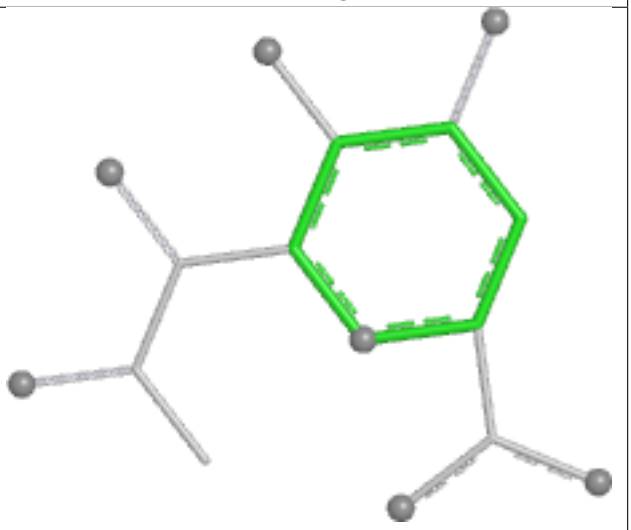
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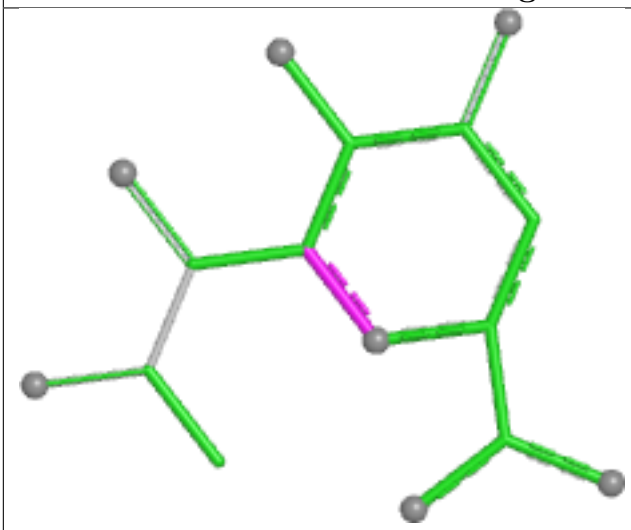


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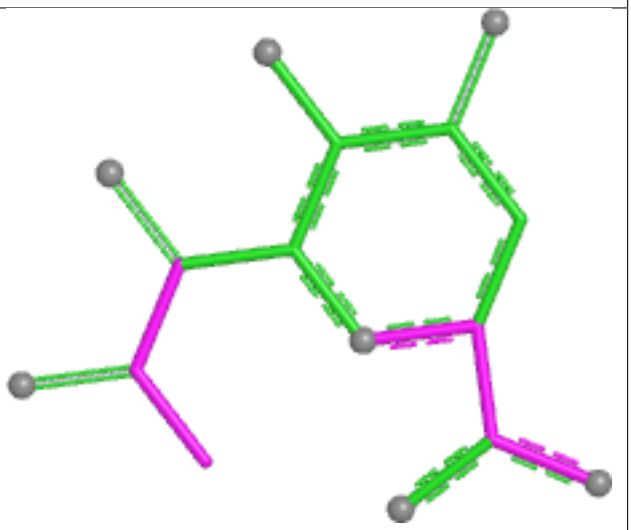


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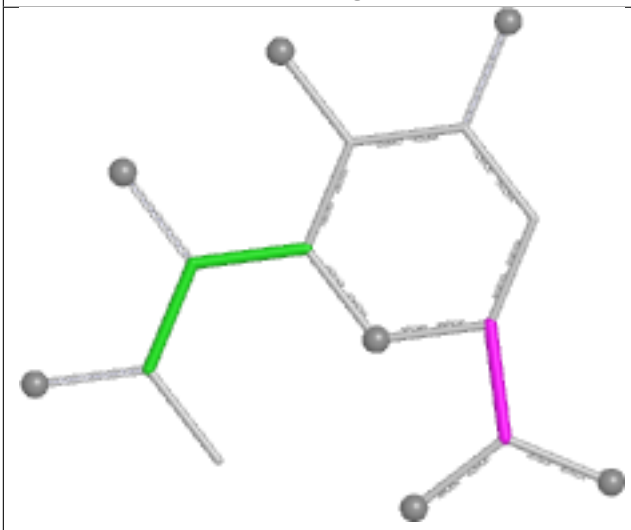
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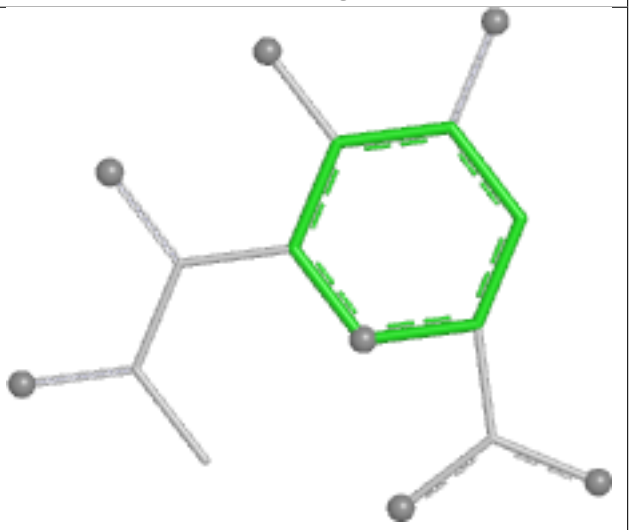
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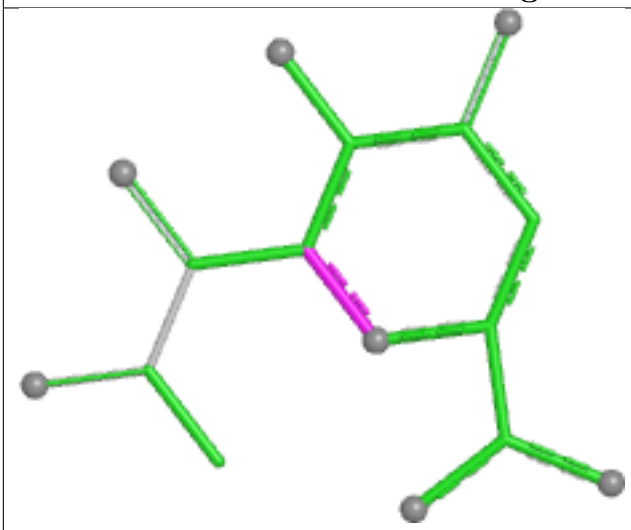


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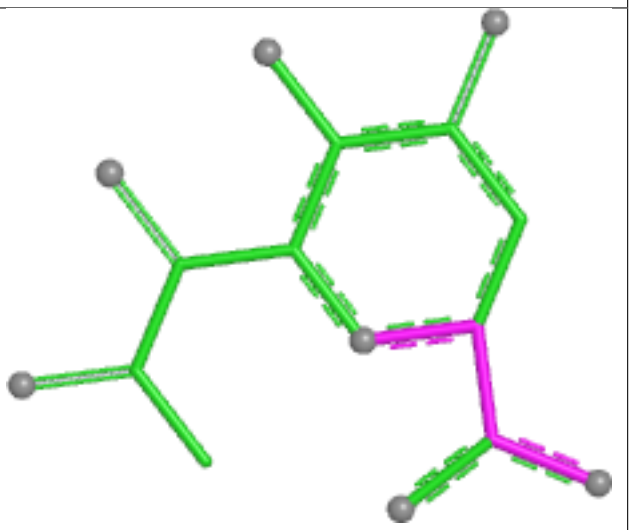


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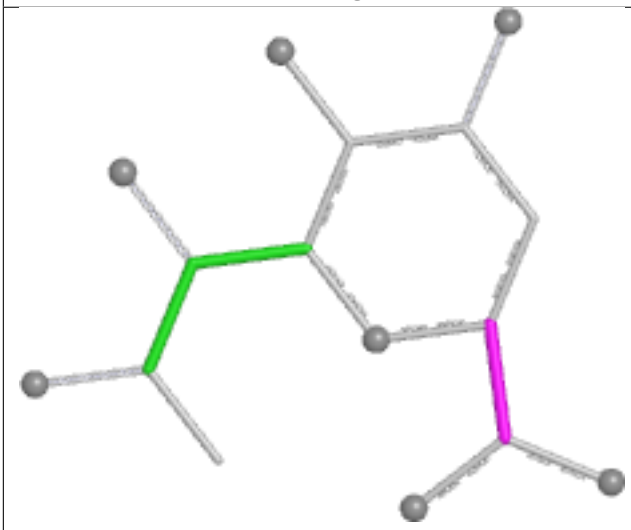
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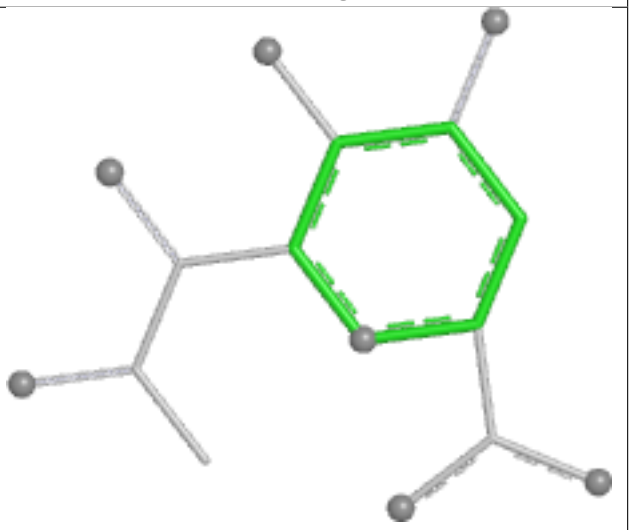
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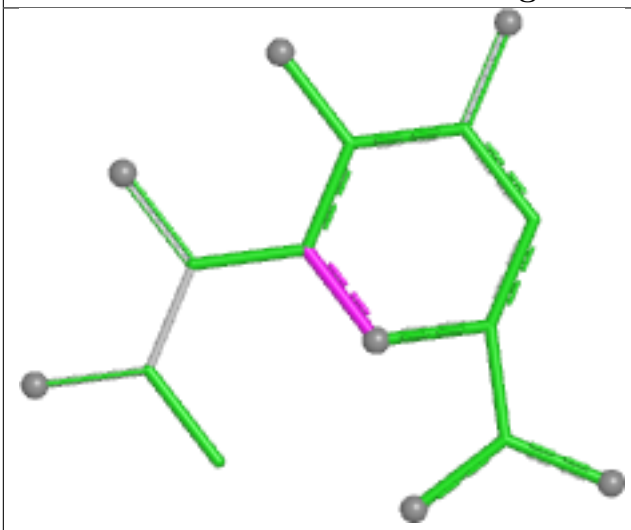


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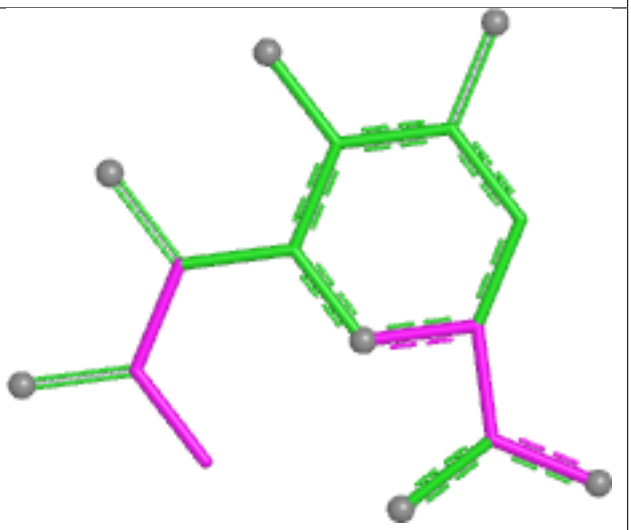


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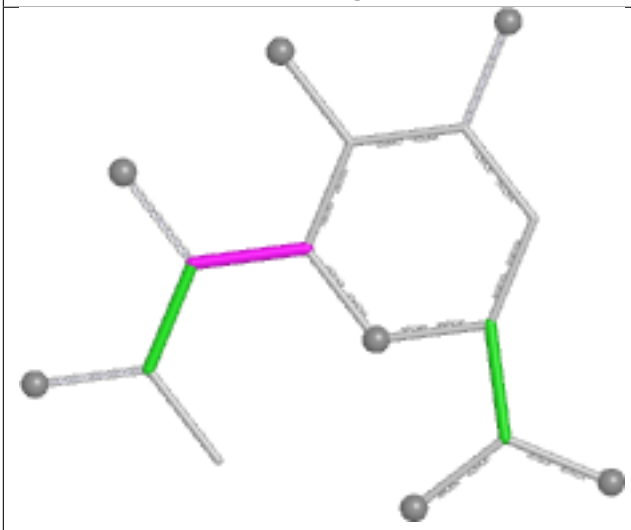
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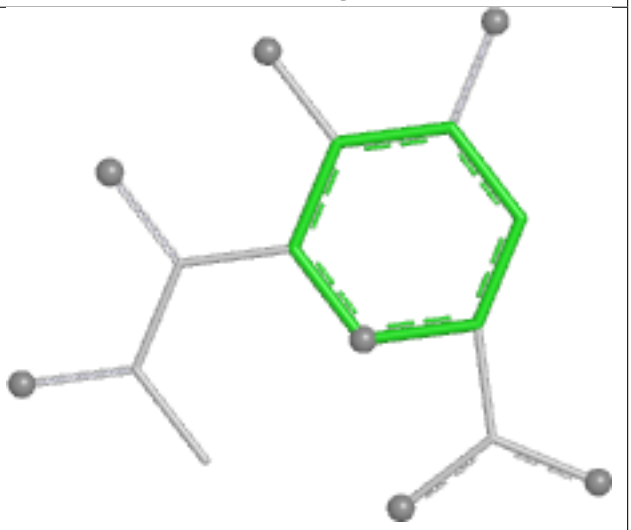
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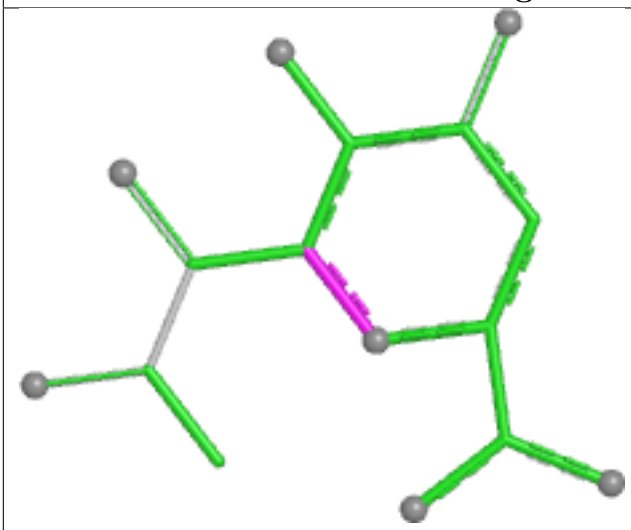


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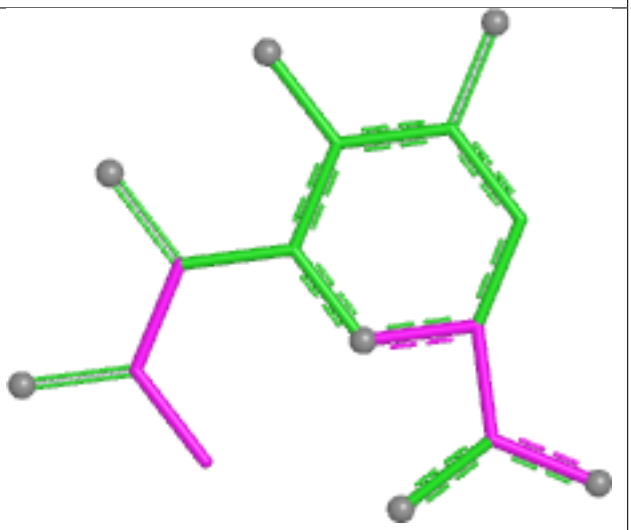


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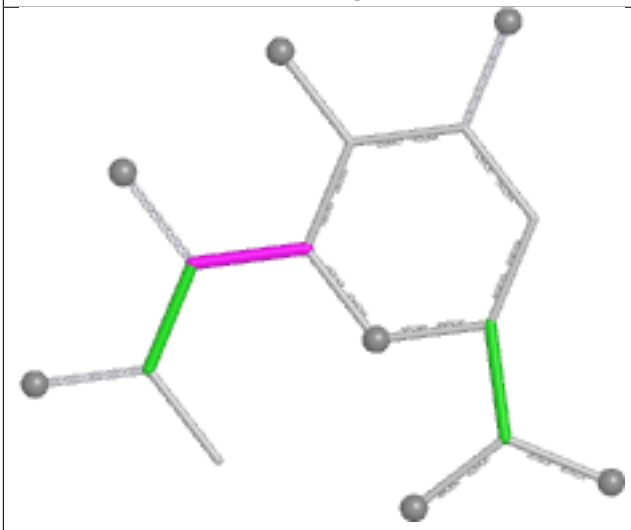
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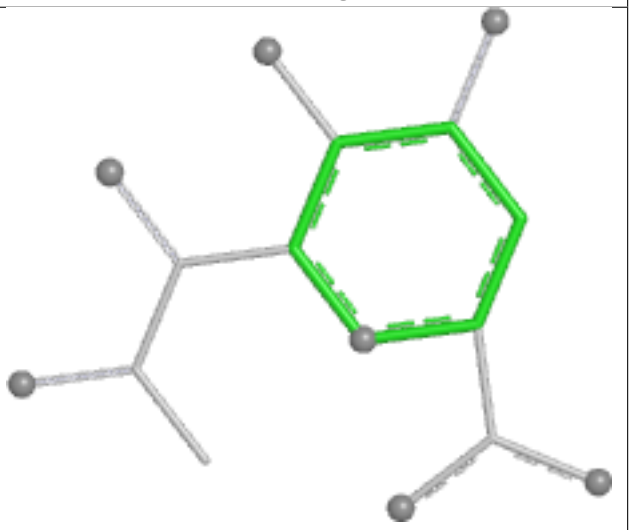
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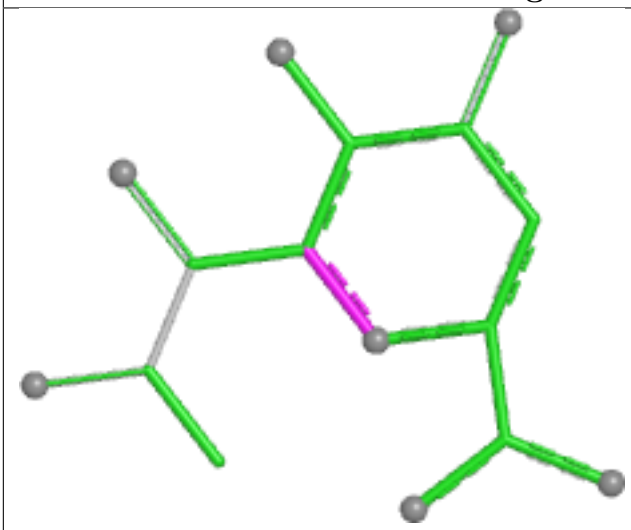


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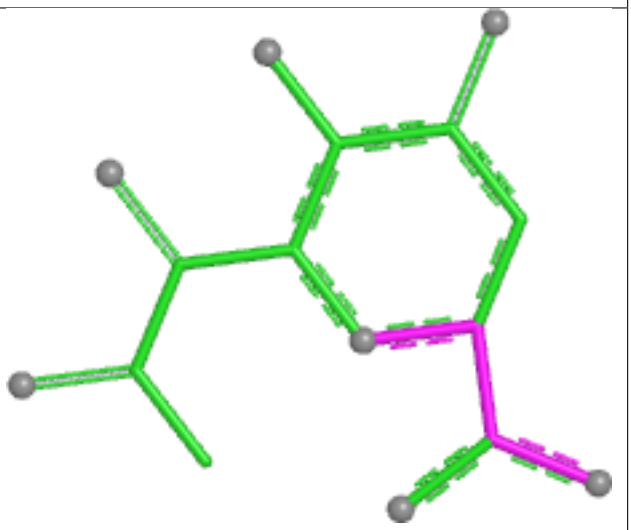


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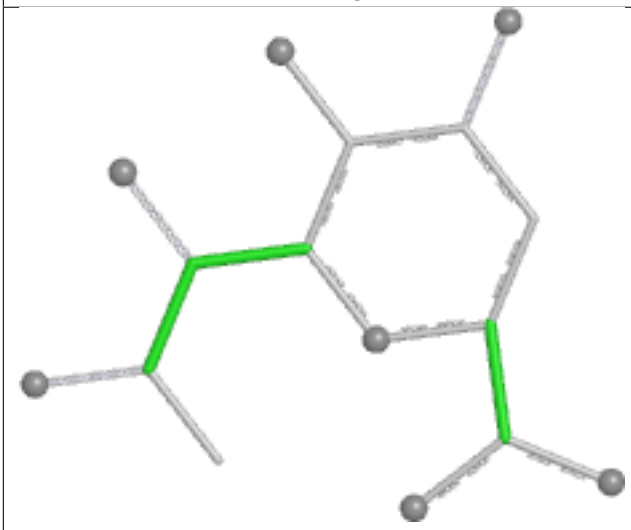
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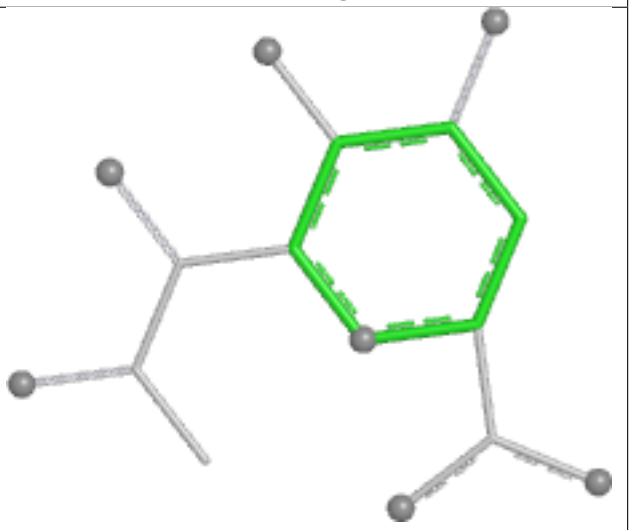
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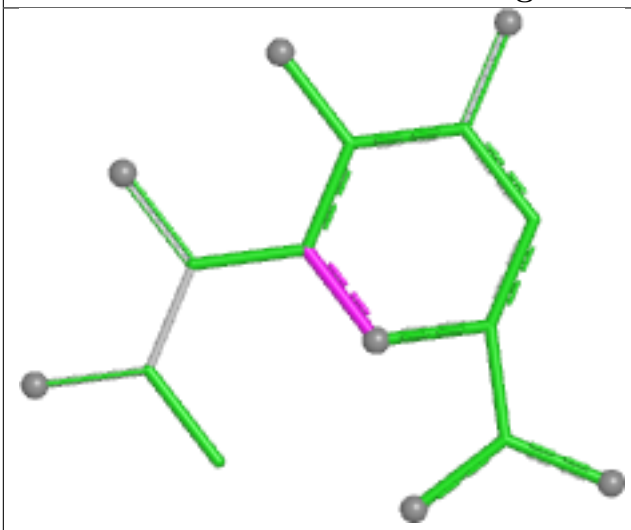


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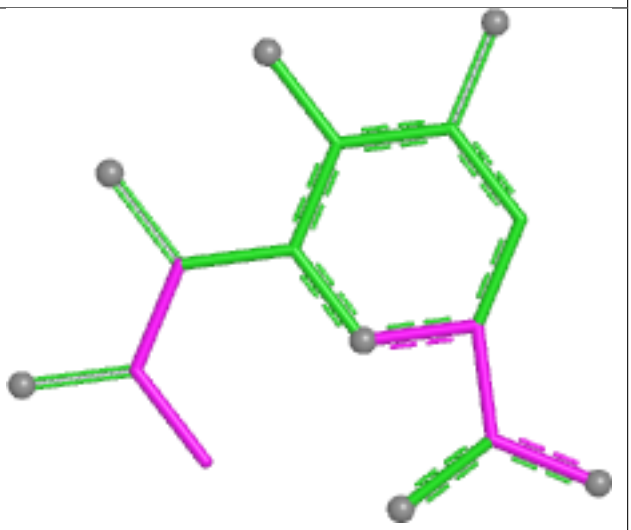


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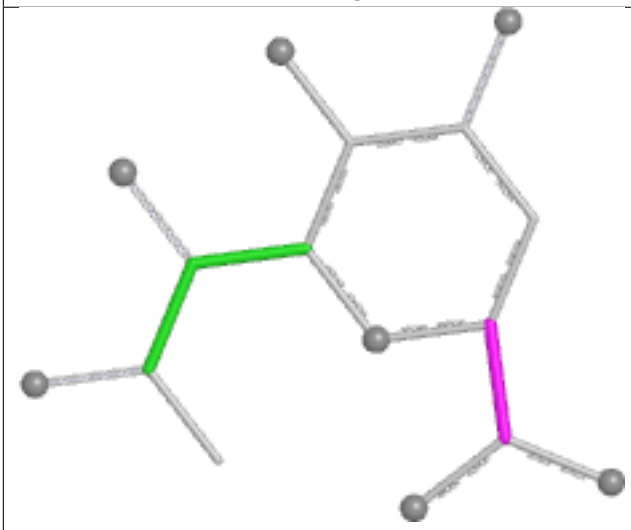
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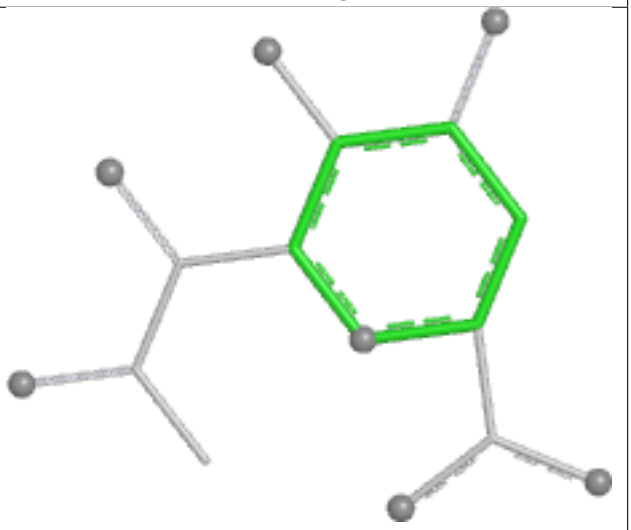
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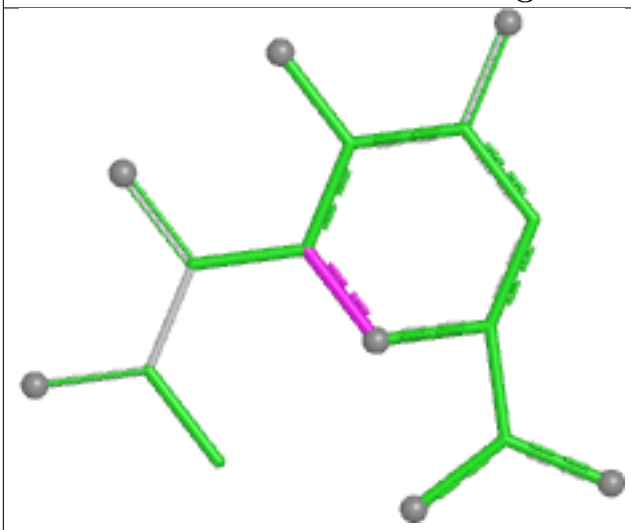


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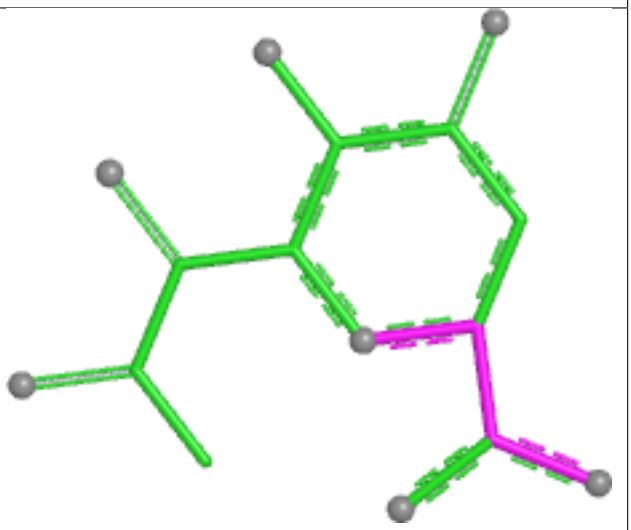


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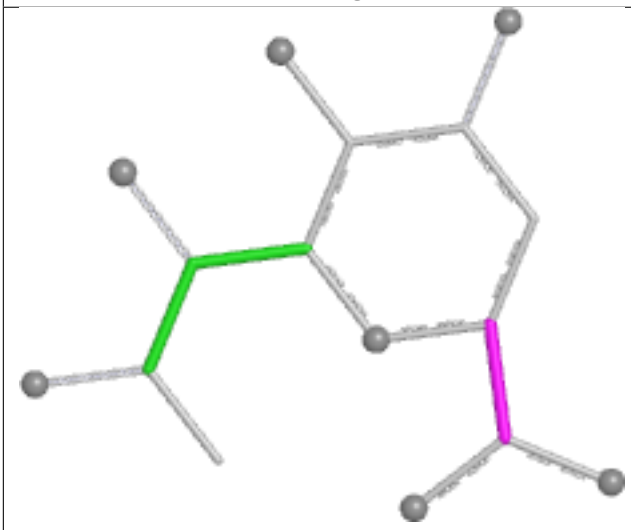
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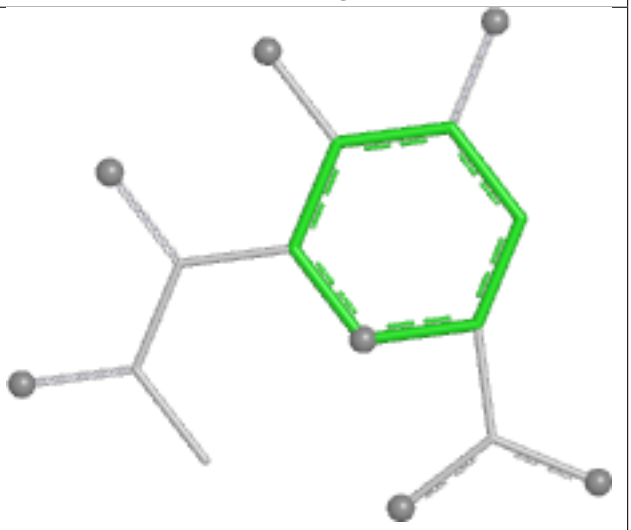
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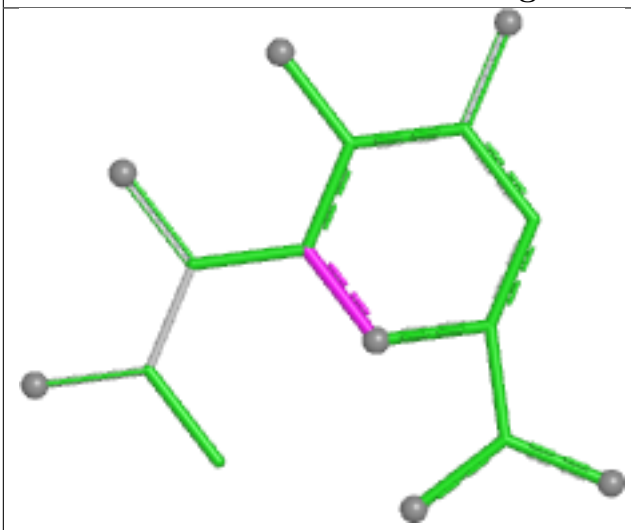


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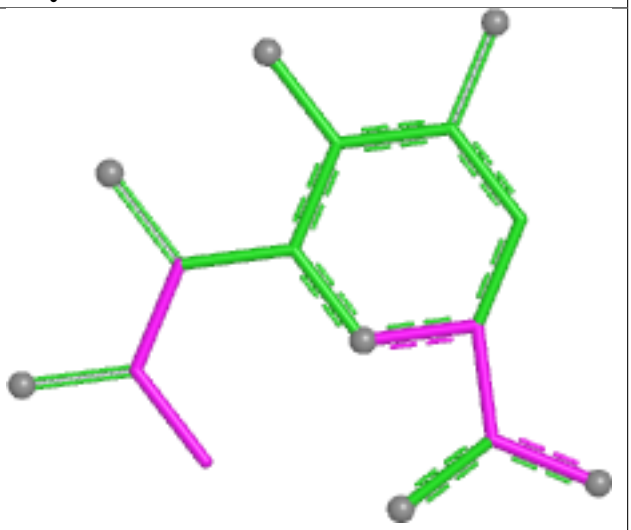


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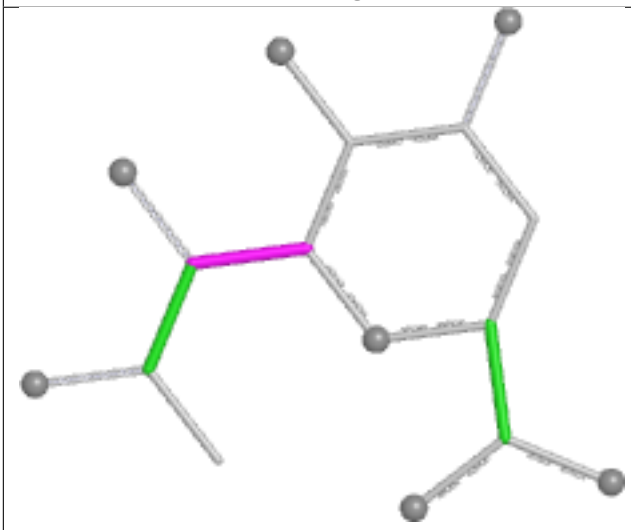
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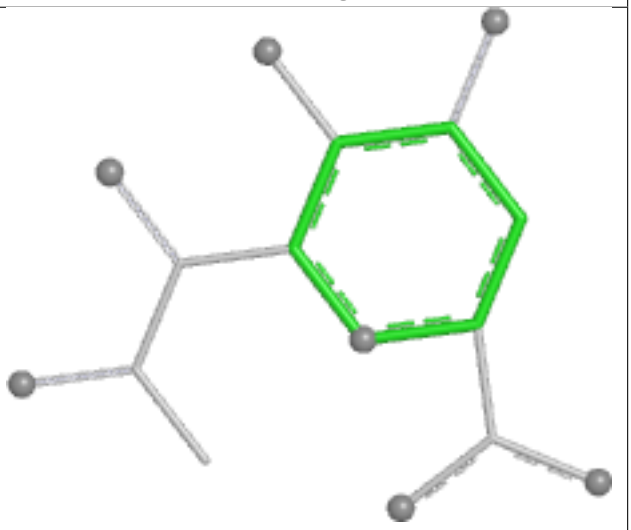
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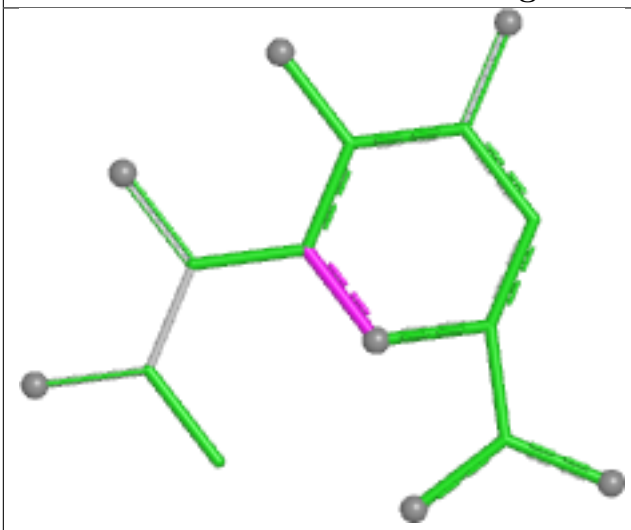


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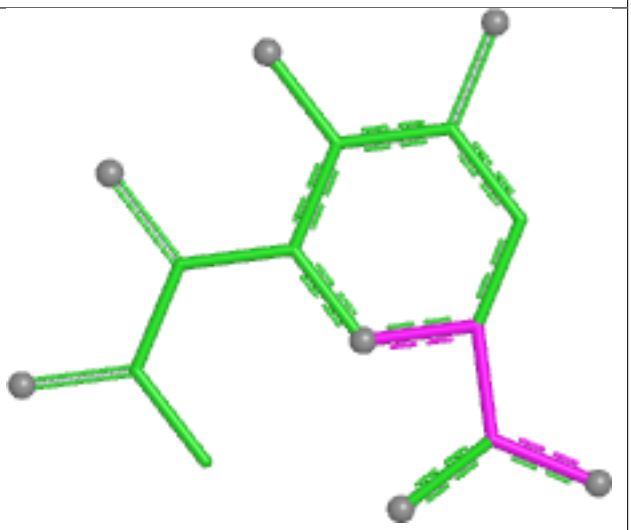


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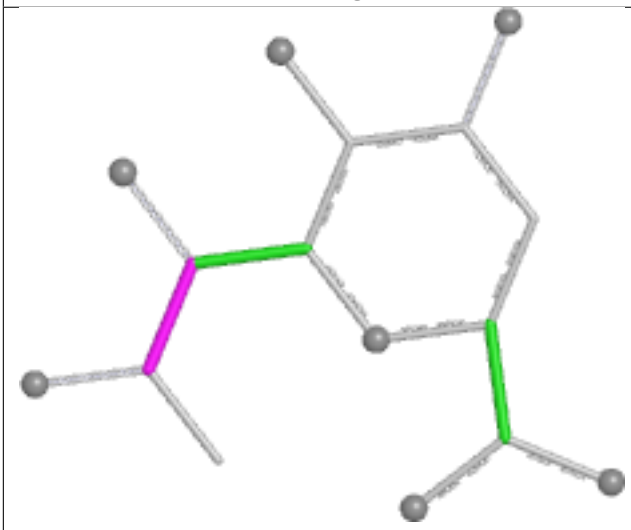
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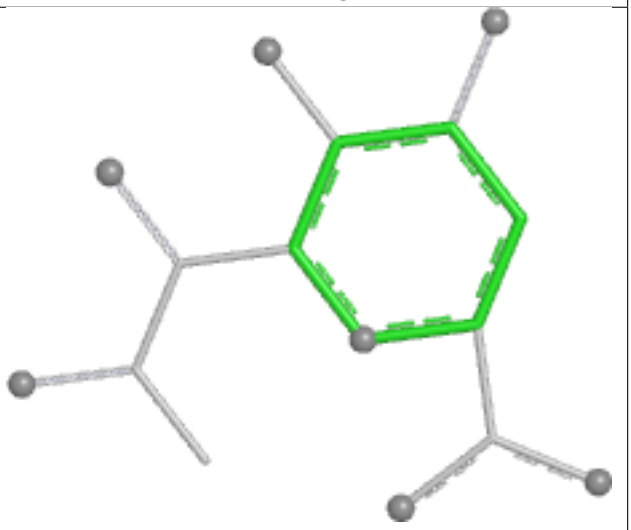
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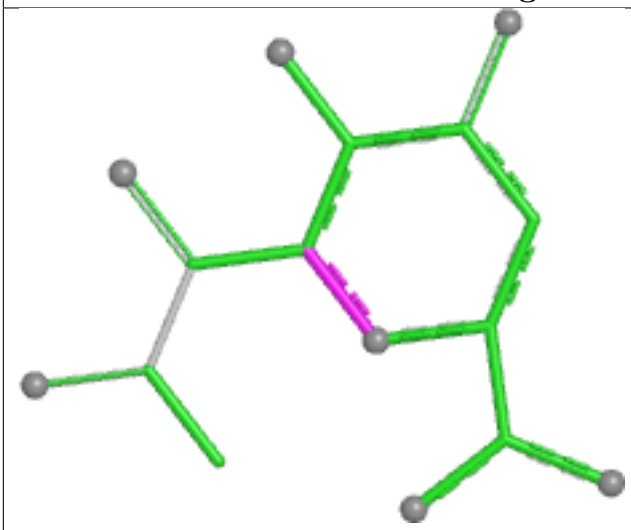


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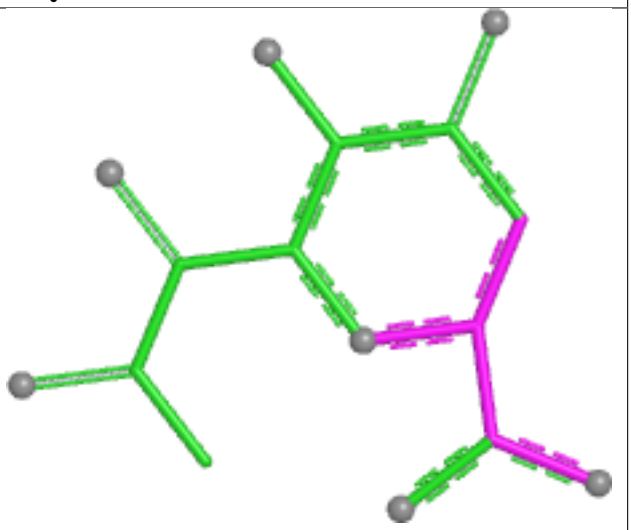


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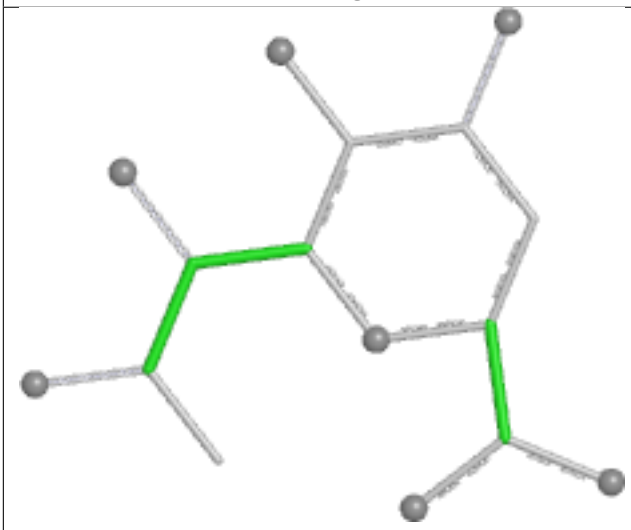
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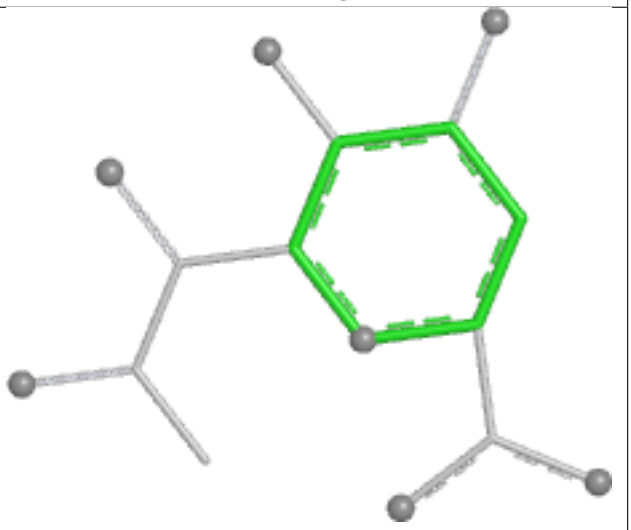
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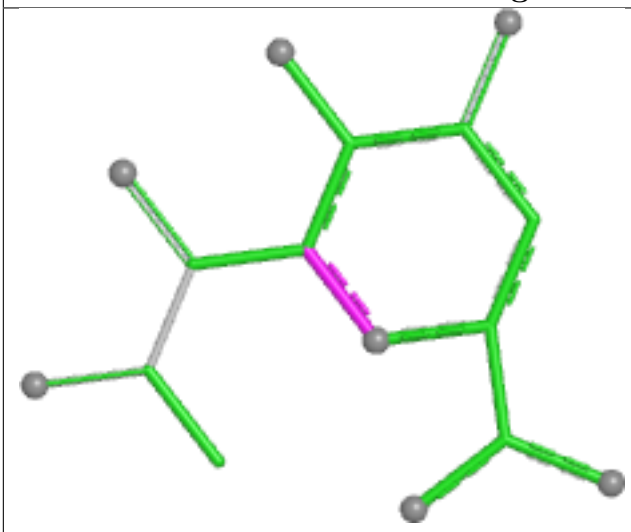


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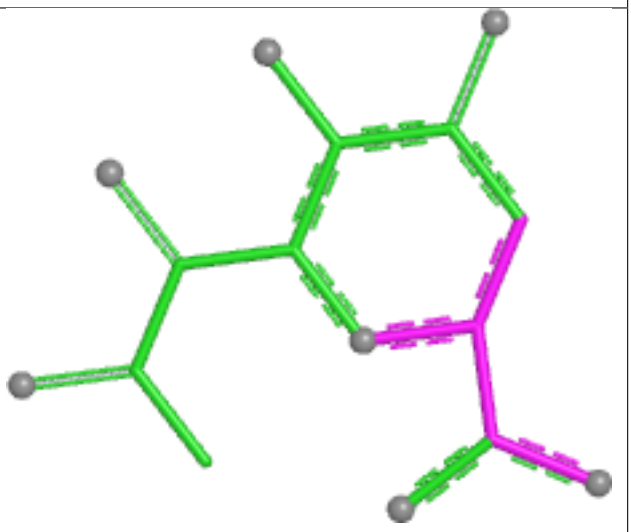


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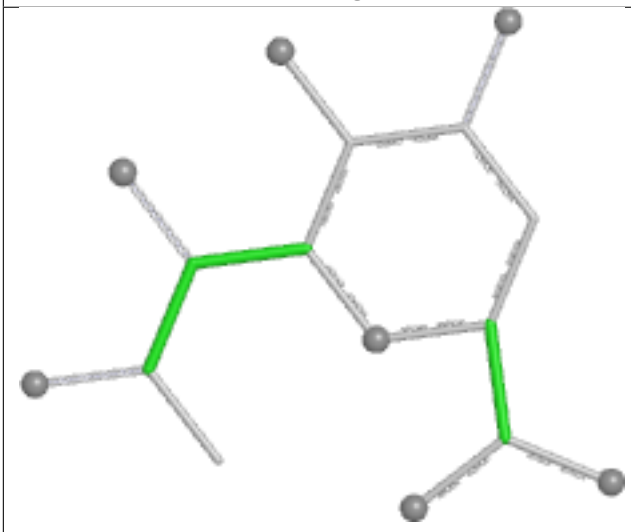
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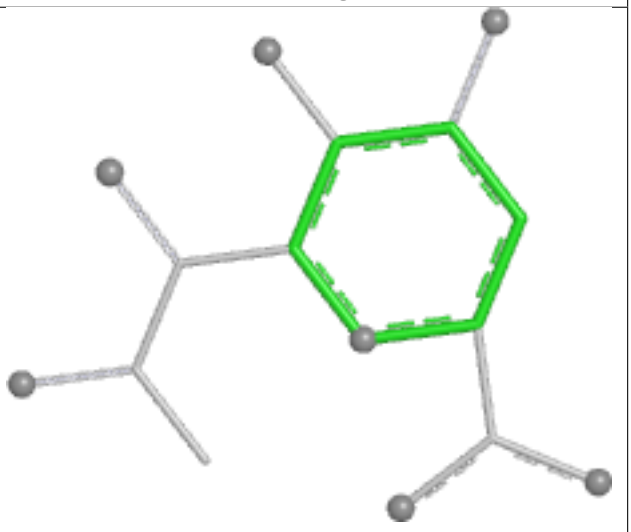
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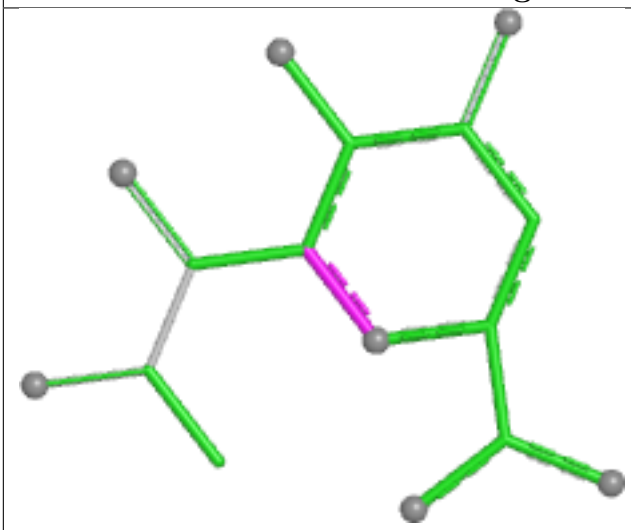


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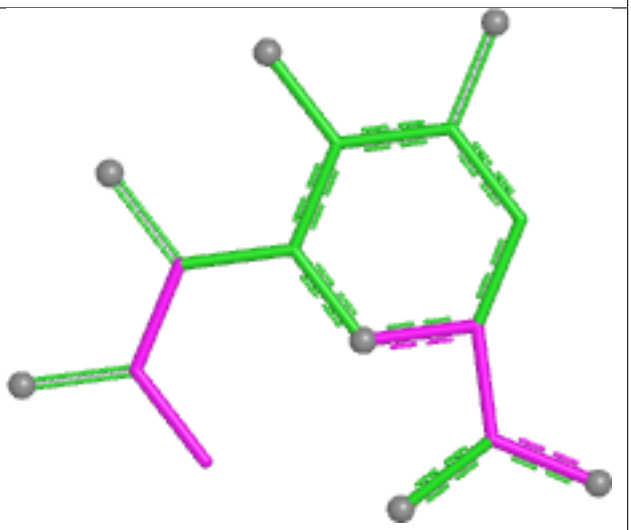


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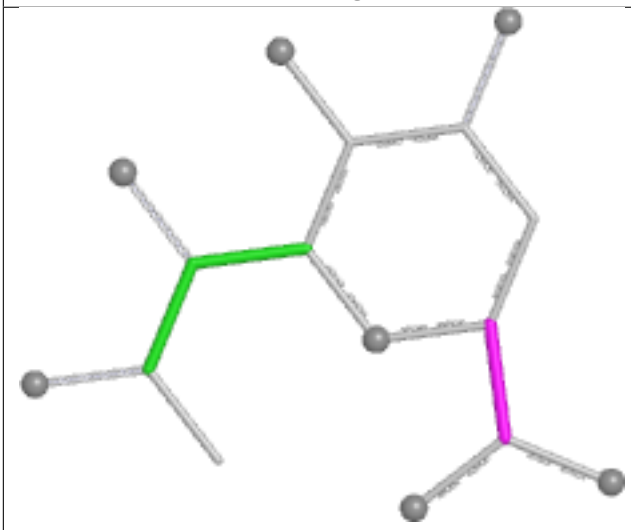
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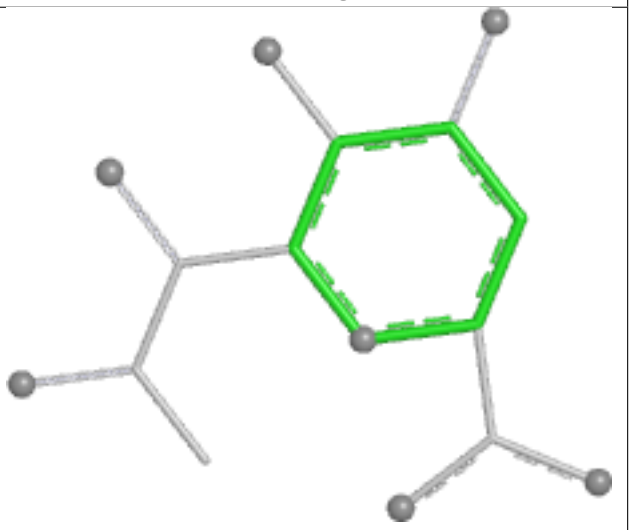
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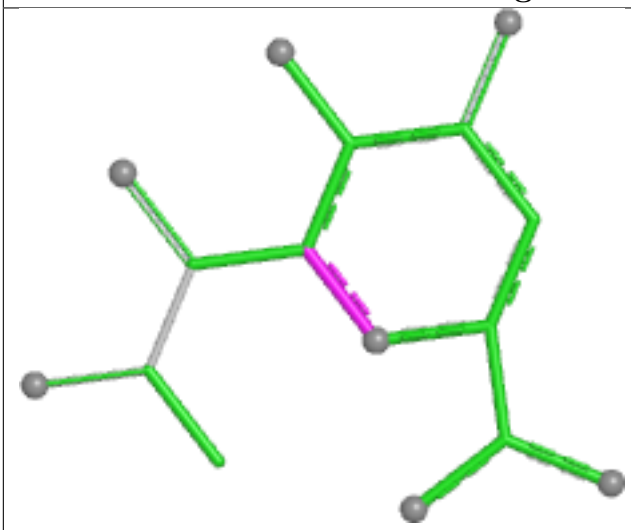


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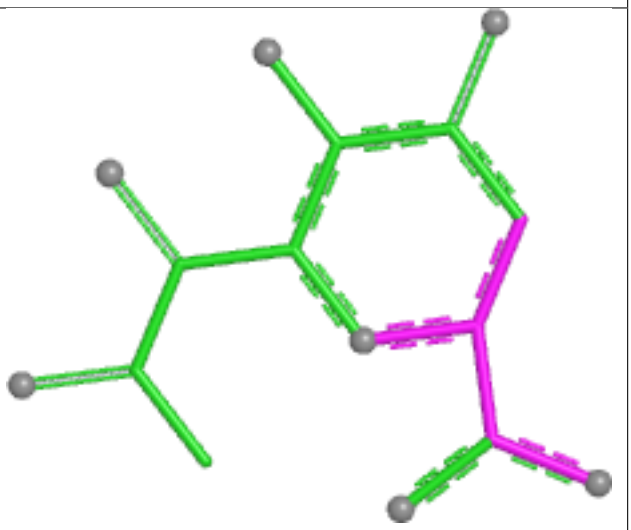


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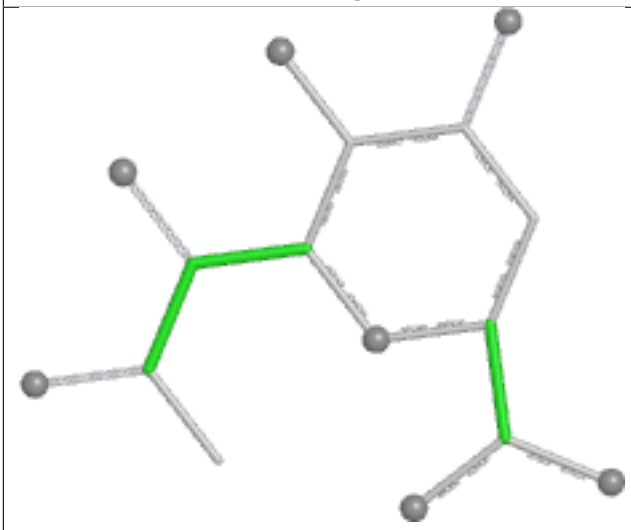
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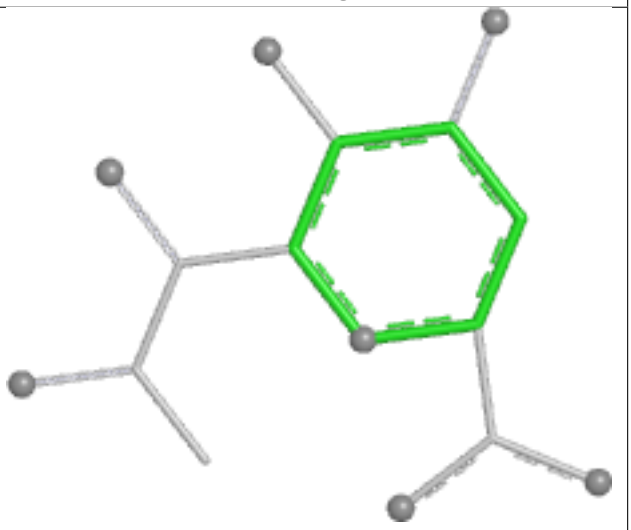
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Bond angles

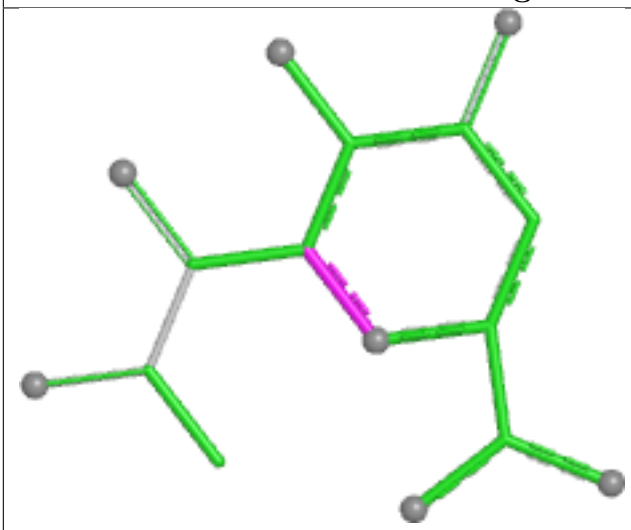


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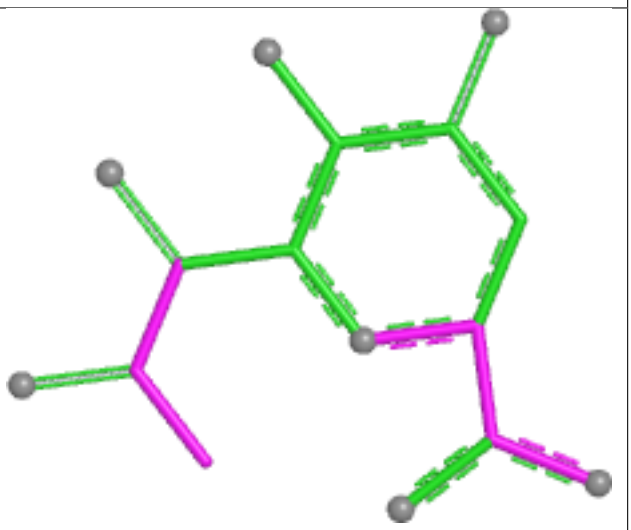


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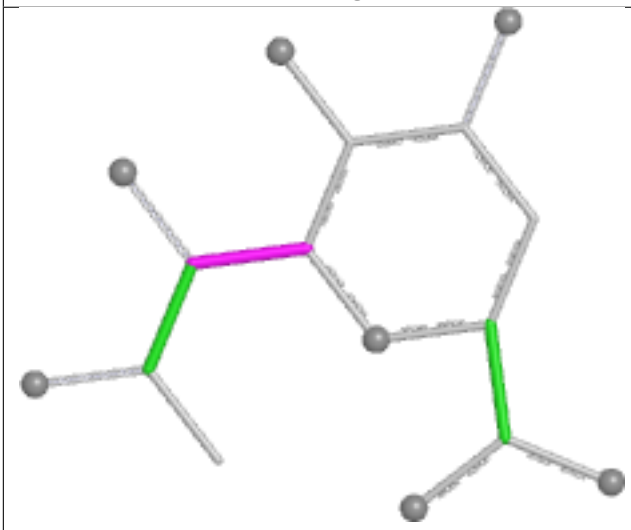
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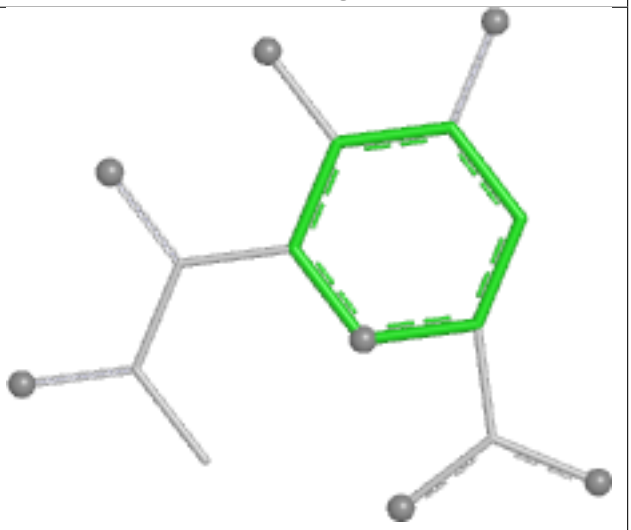
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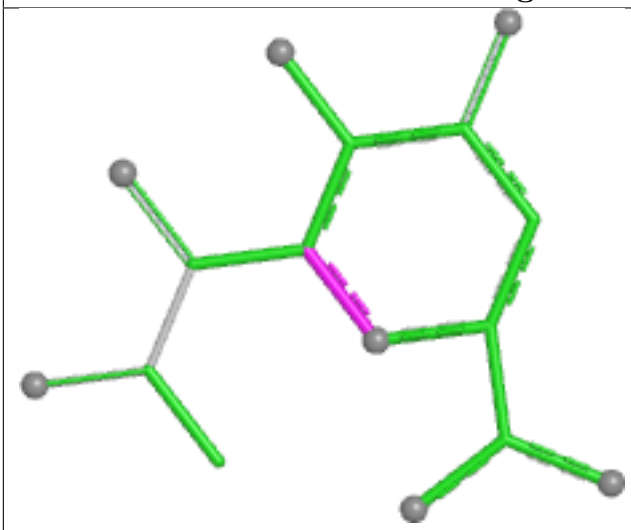


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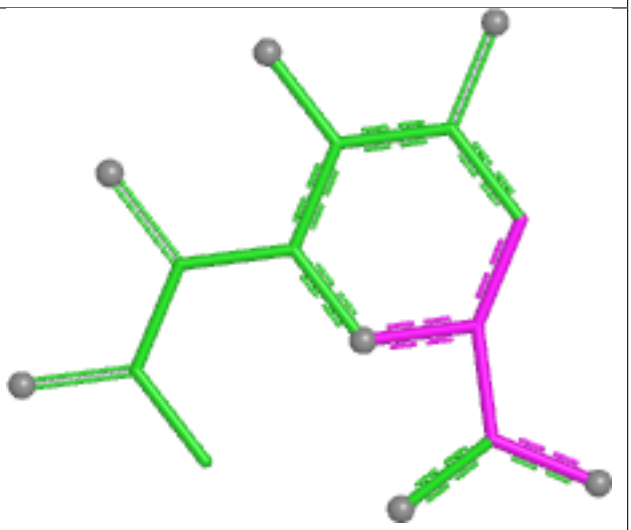


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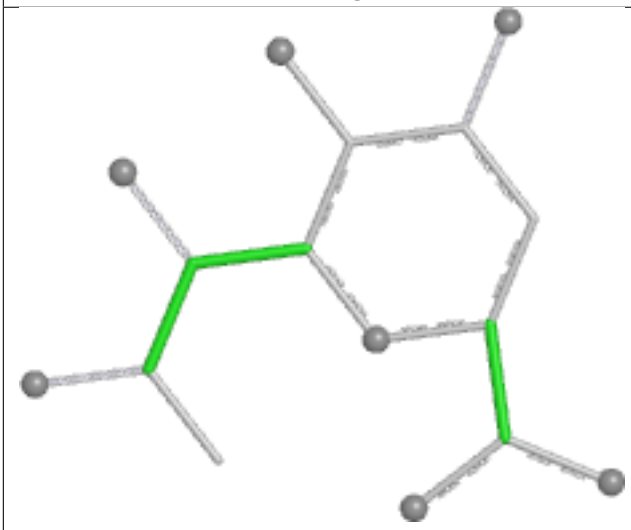
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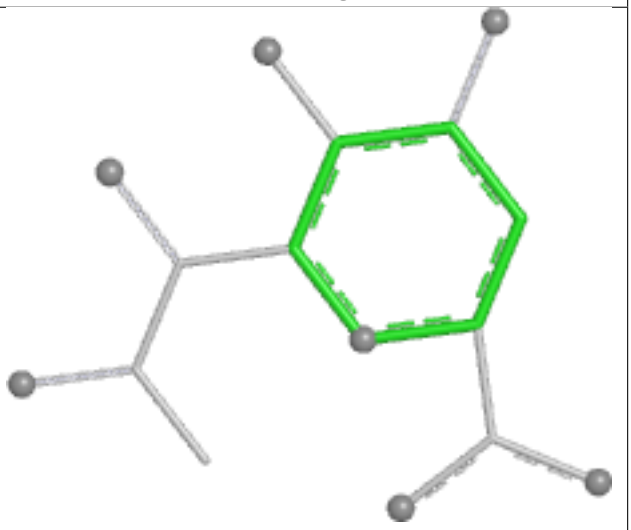
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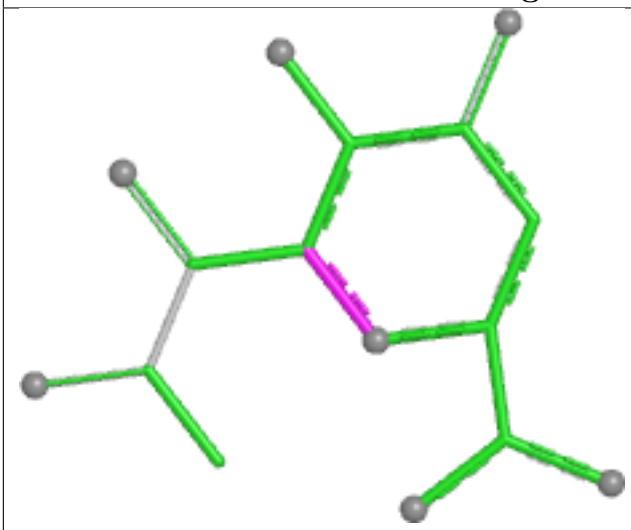


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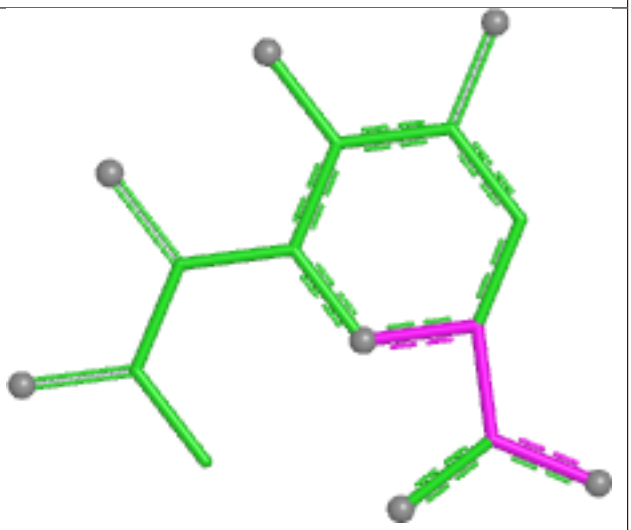


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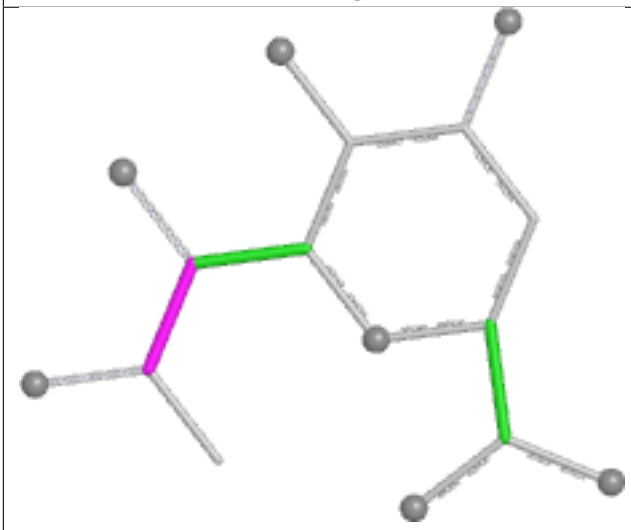
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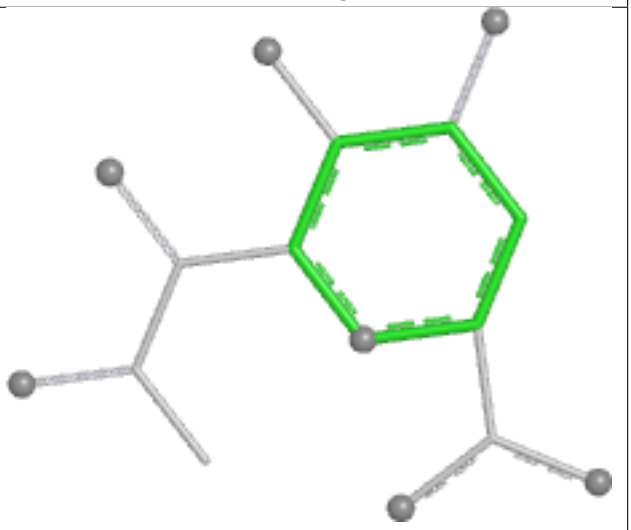
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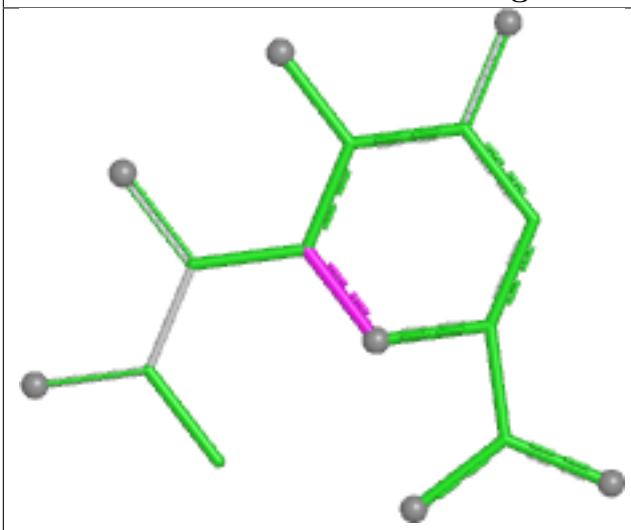


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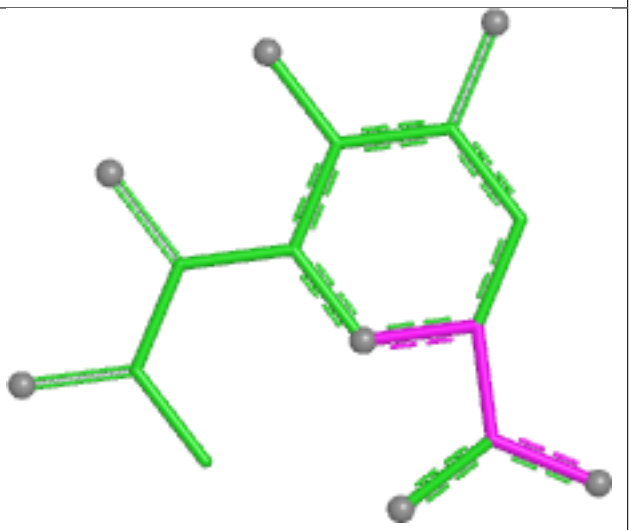


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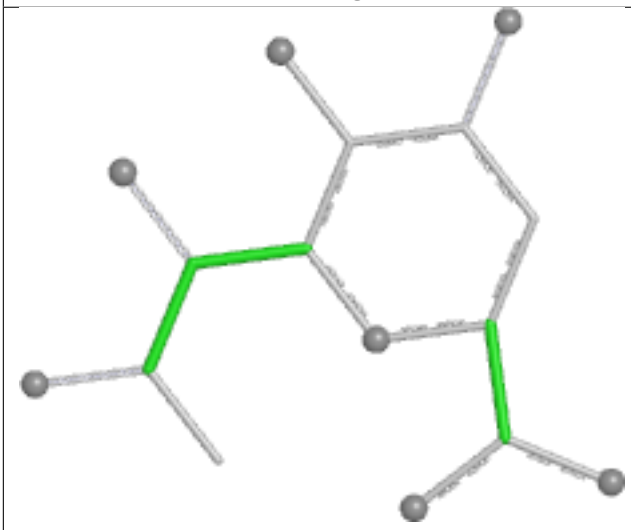
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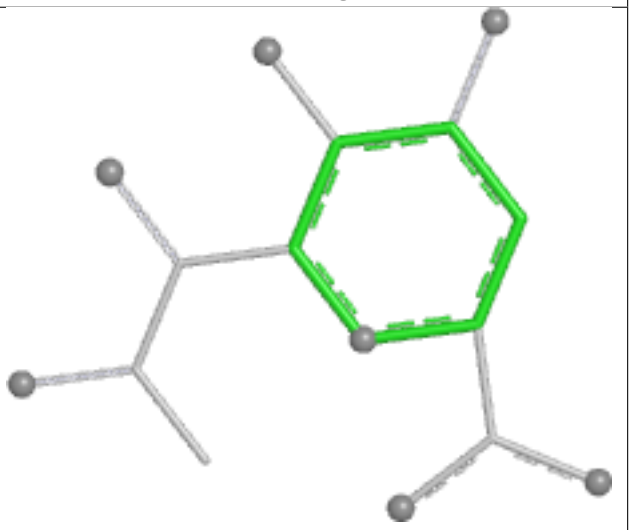
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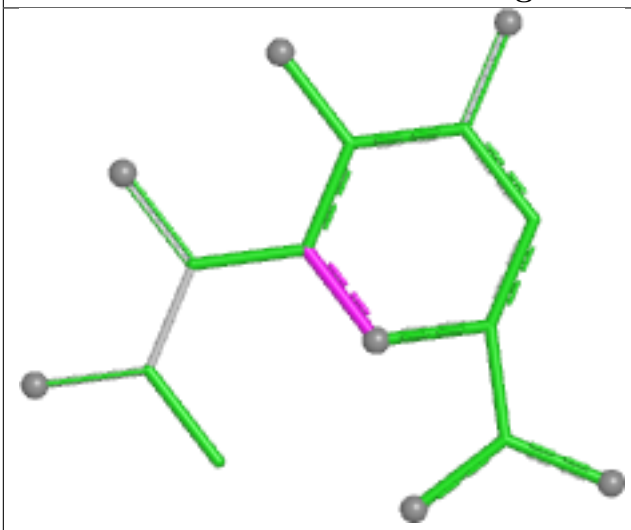


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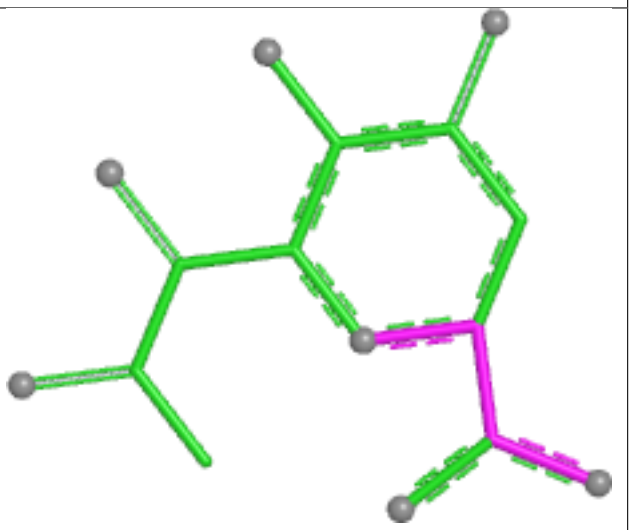


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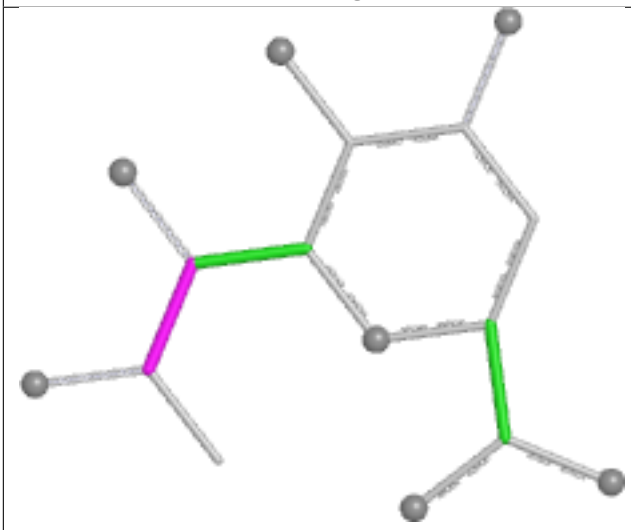
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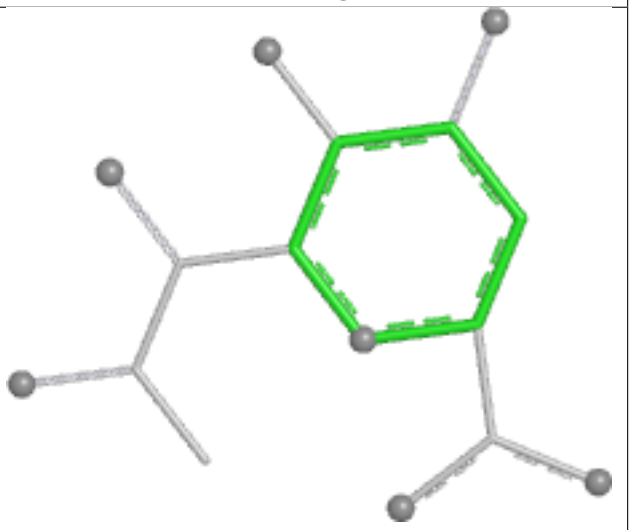
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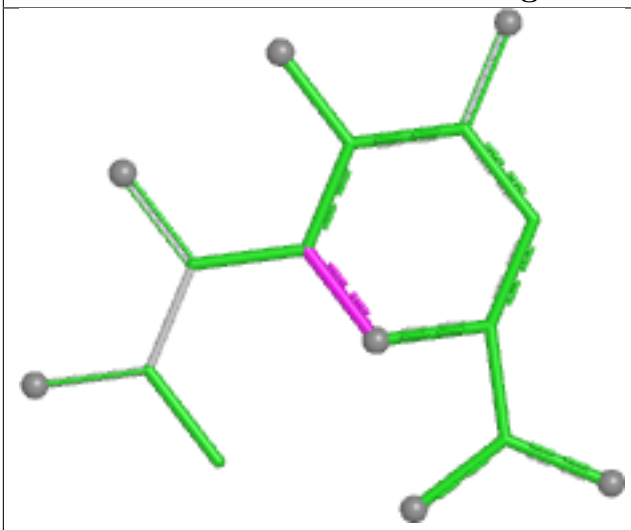


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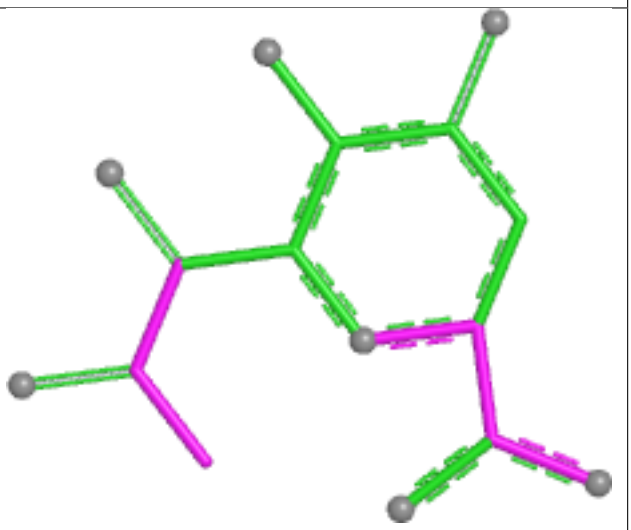


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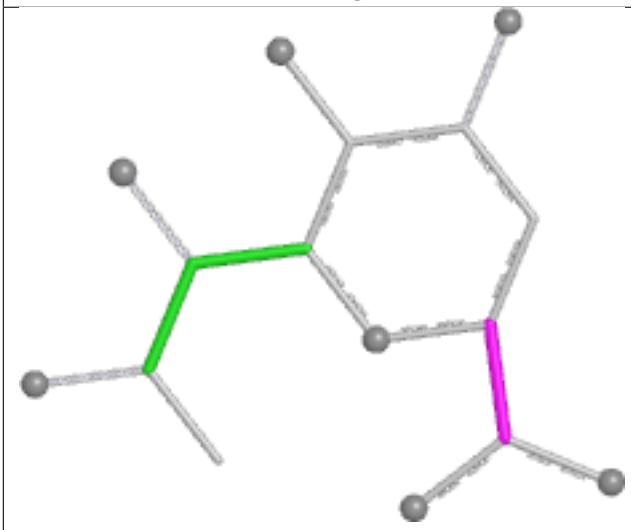
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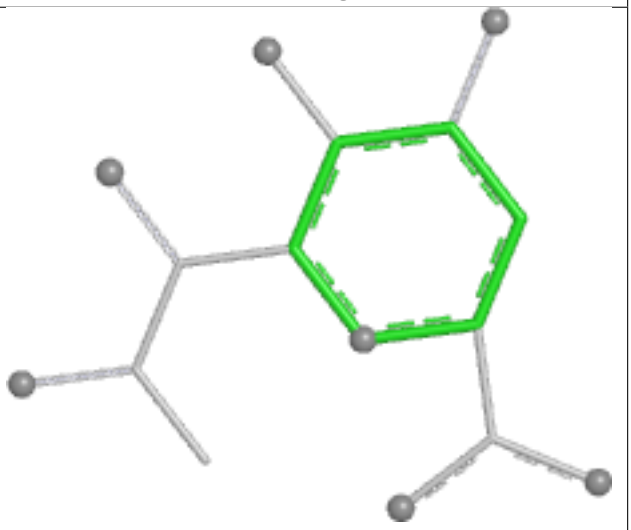
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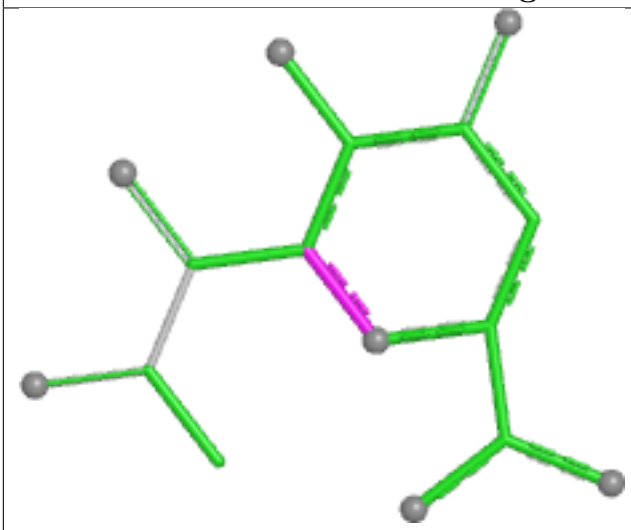


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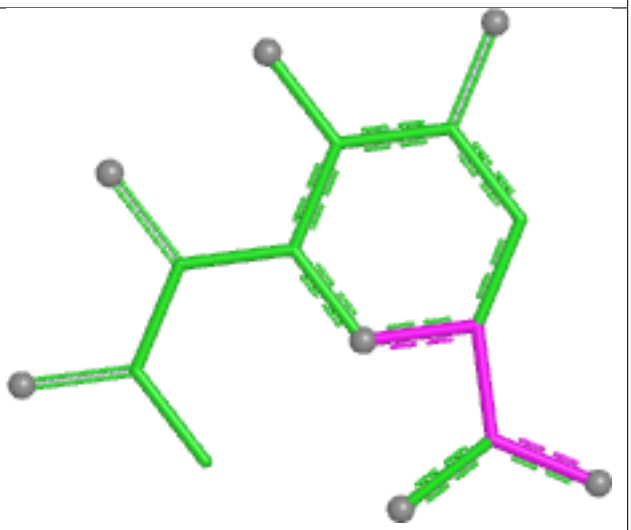


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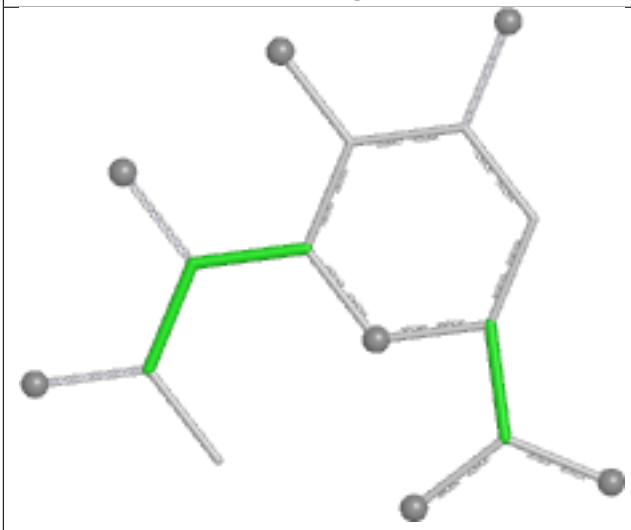
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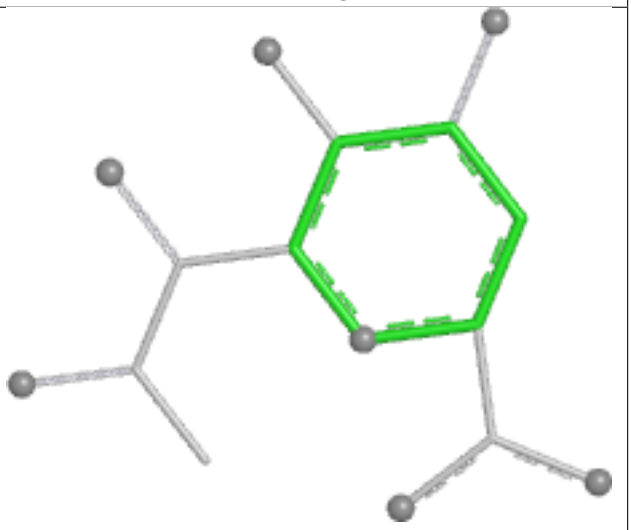
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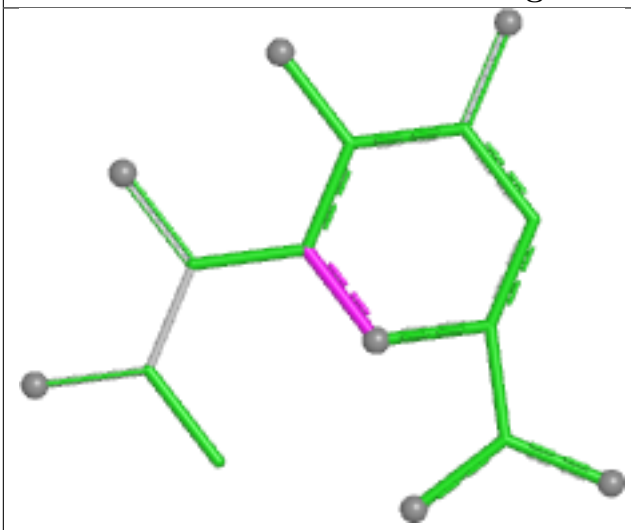


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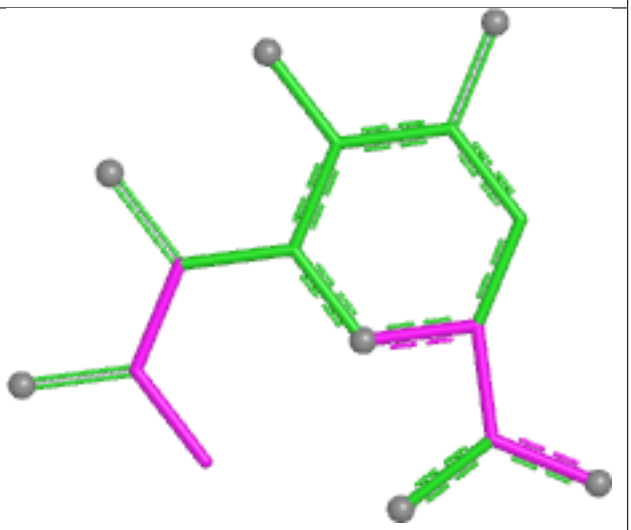


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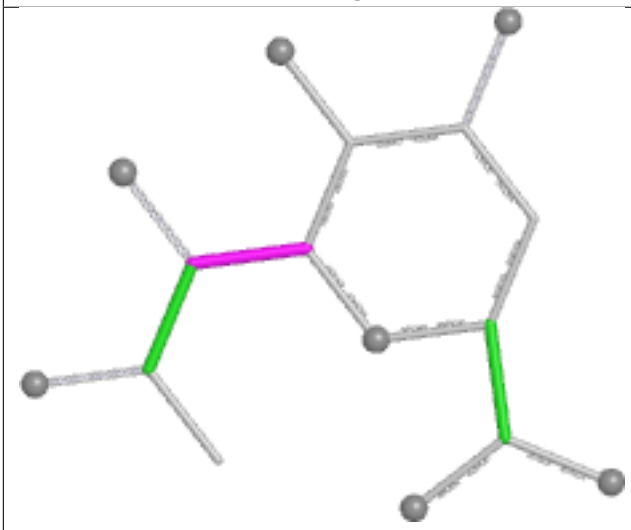
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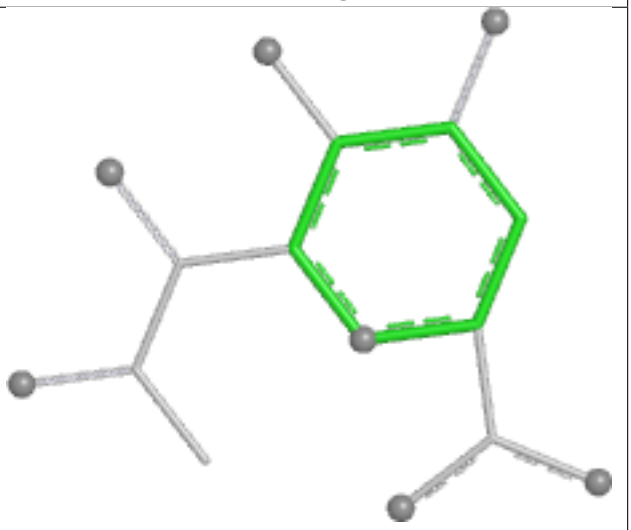
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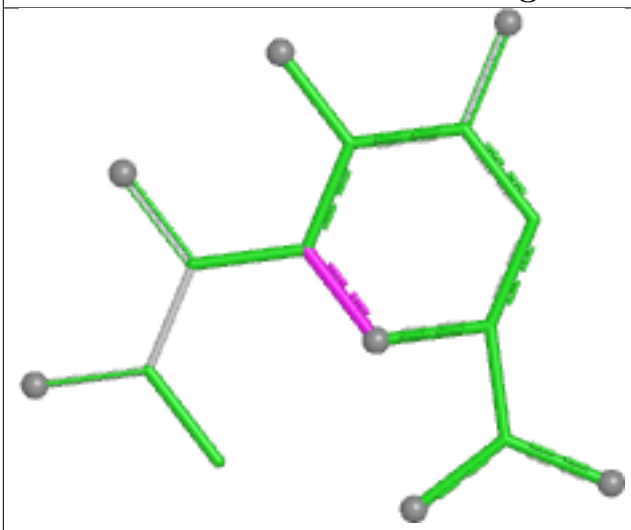


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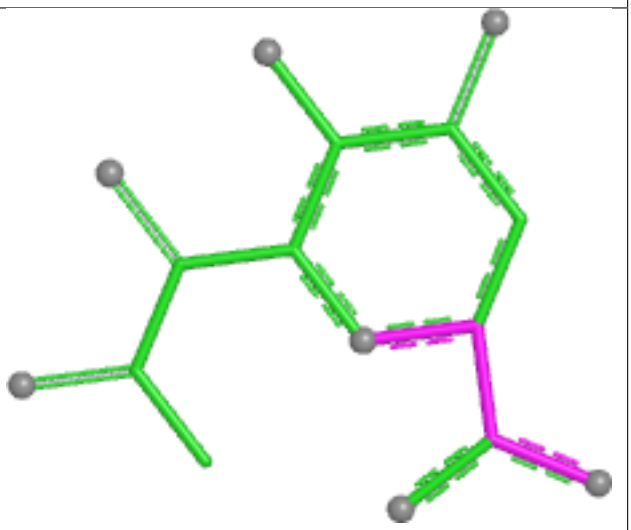


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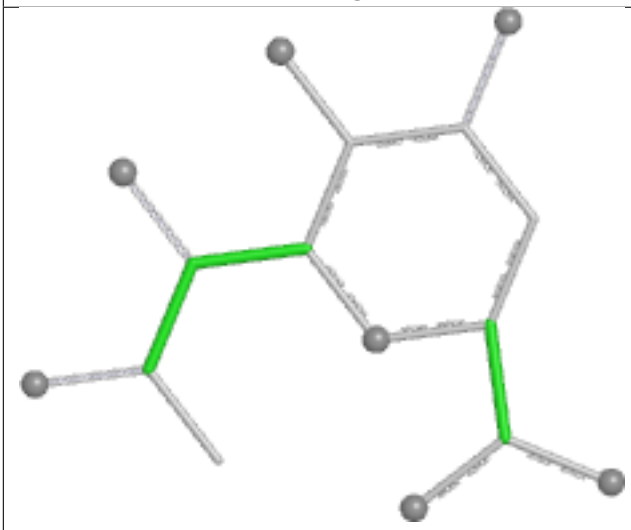
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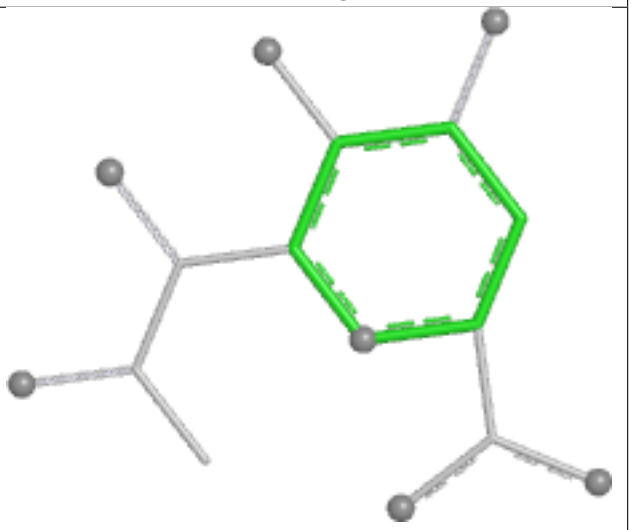
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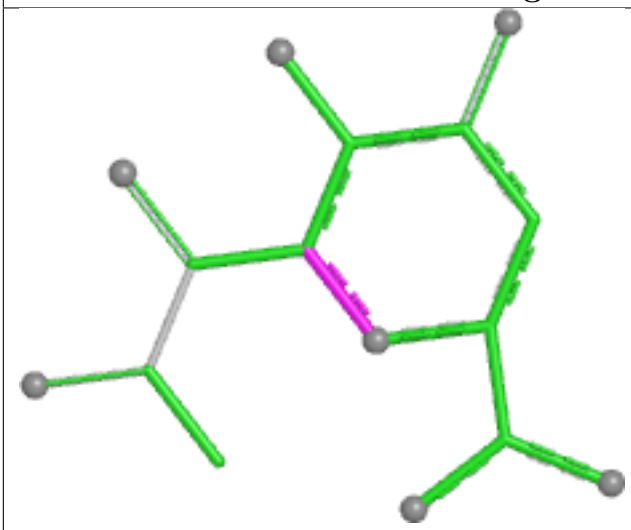


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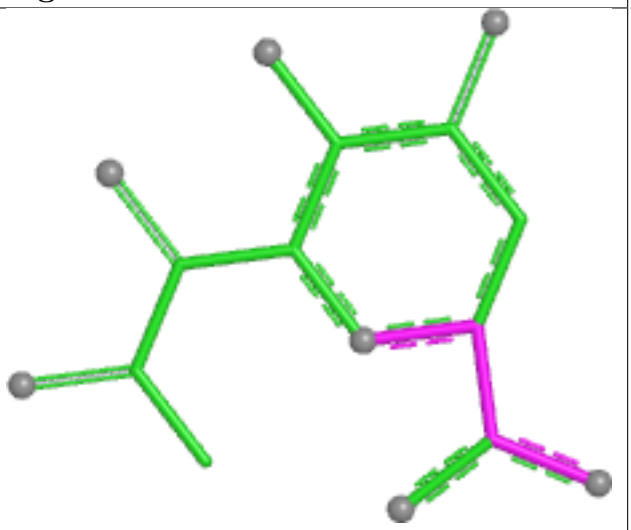


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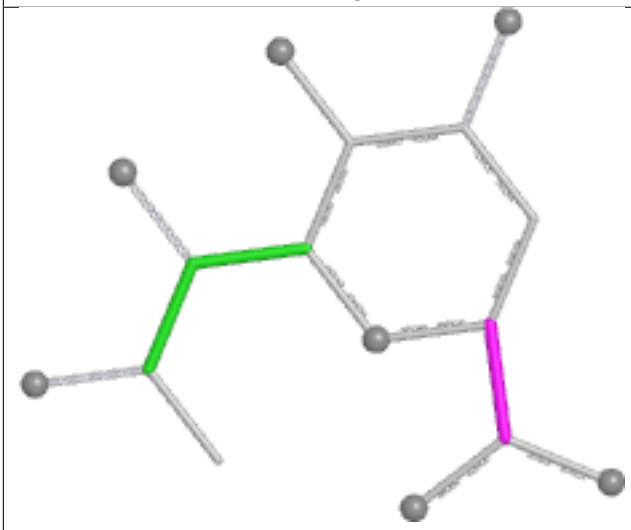
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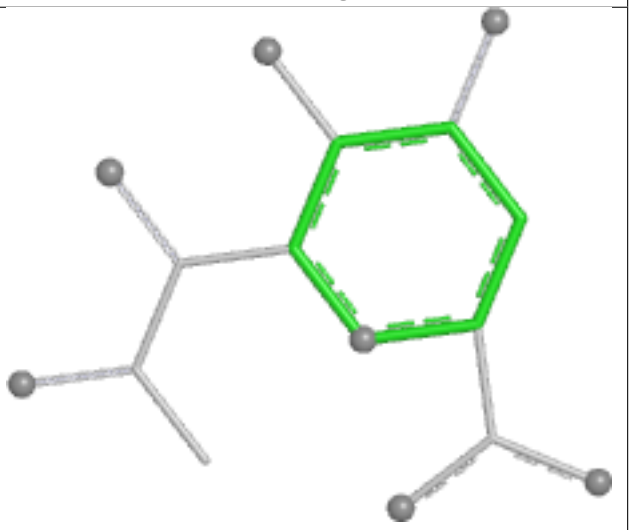
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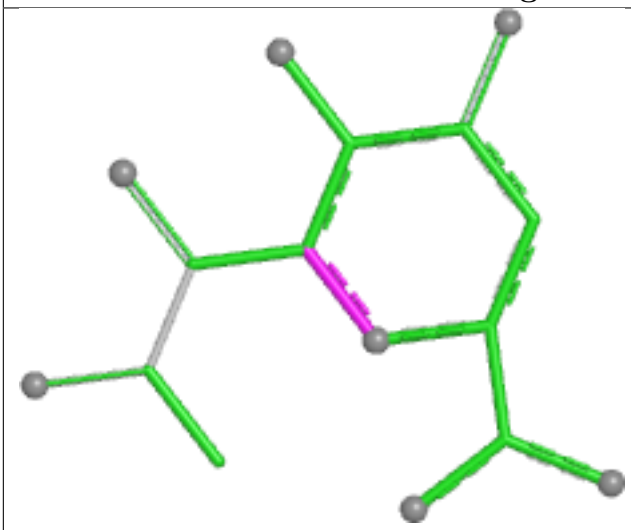


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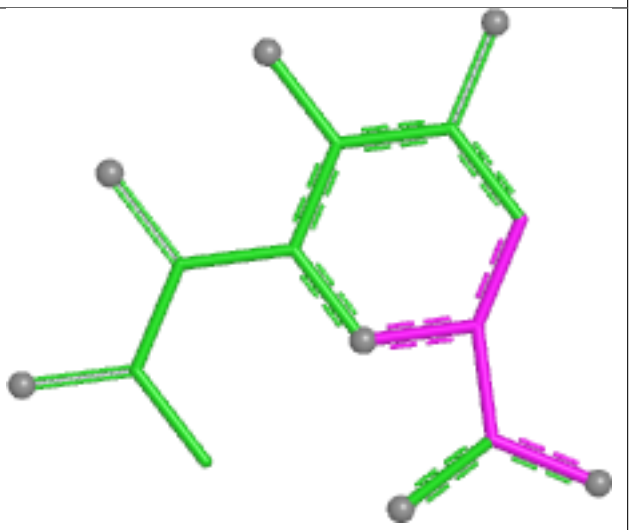


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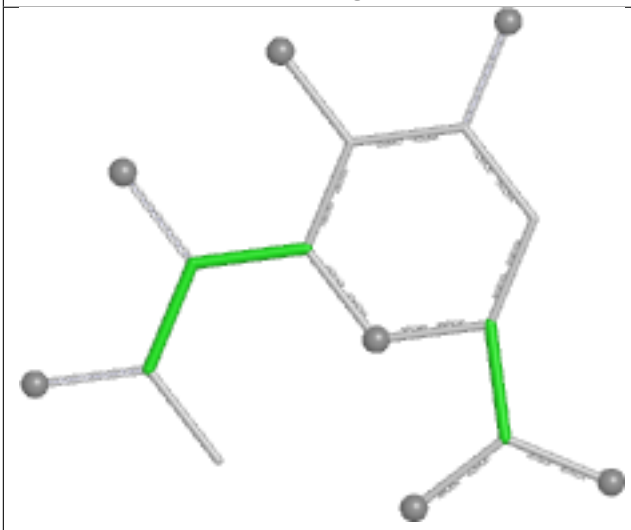
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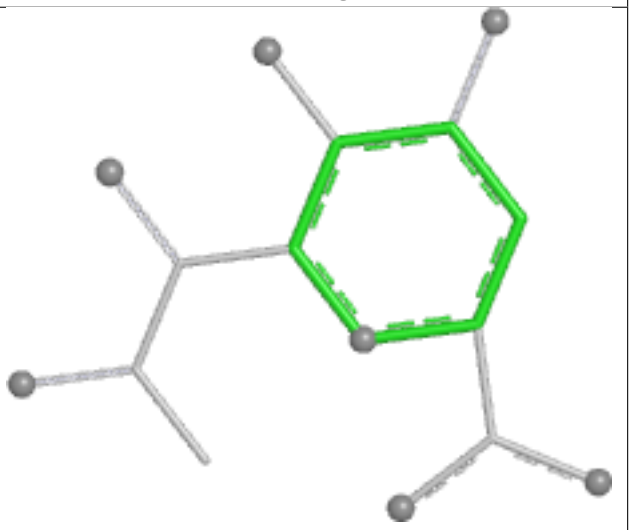
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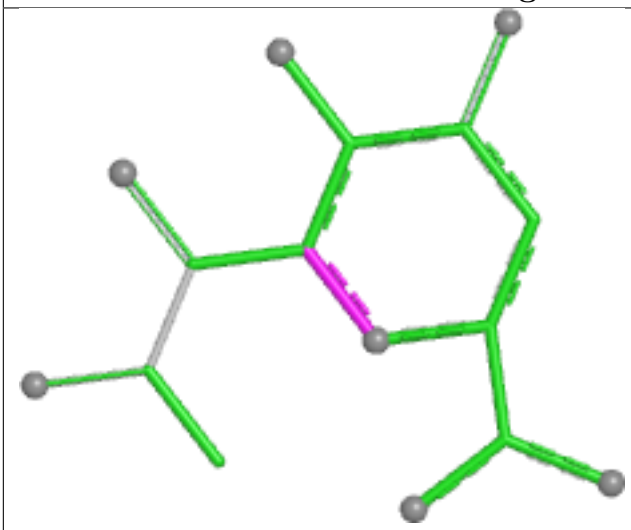


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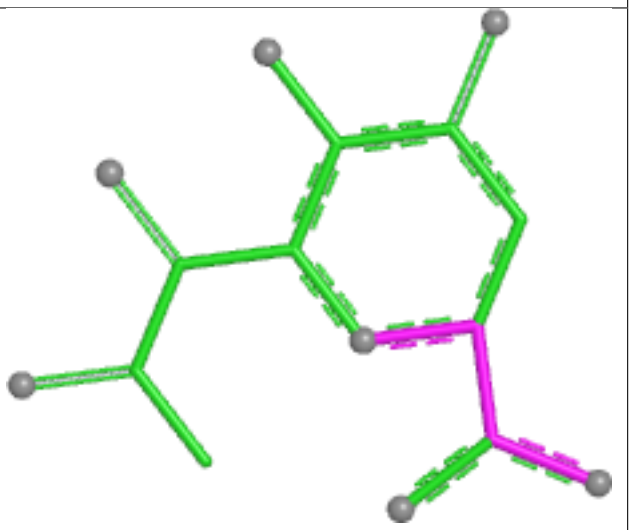


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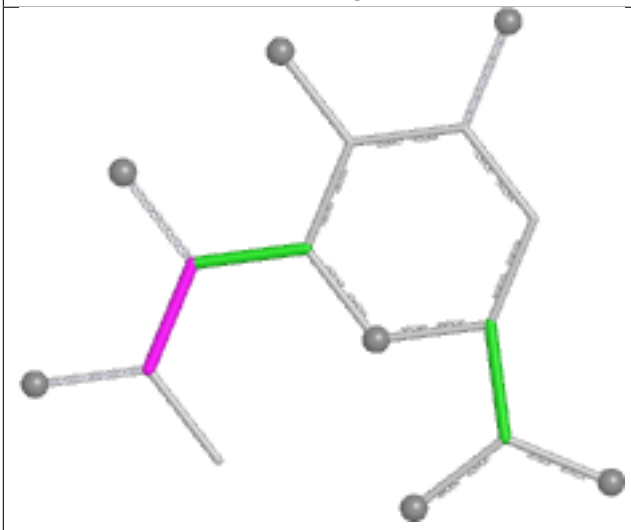
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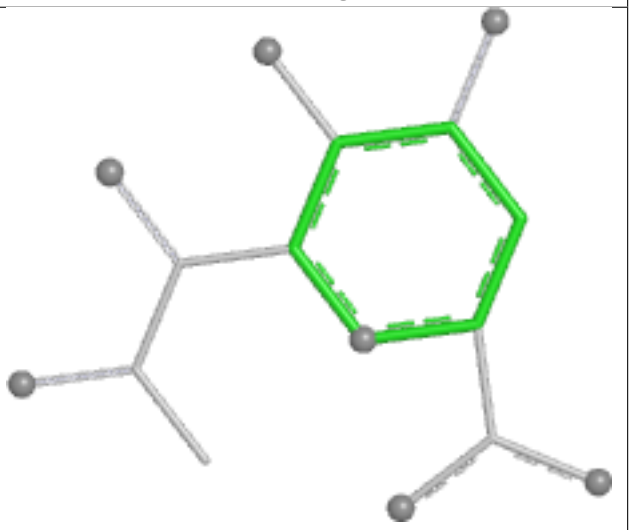
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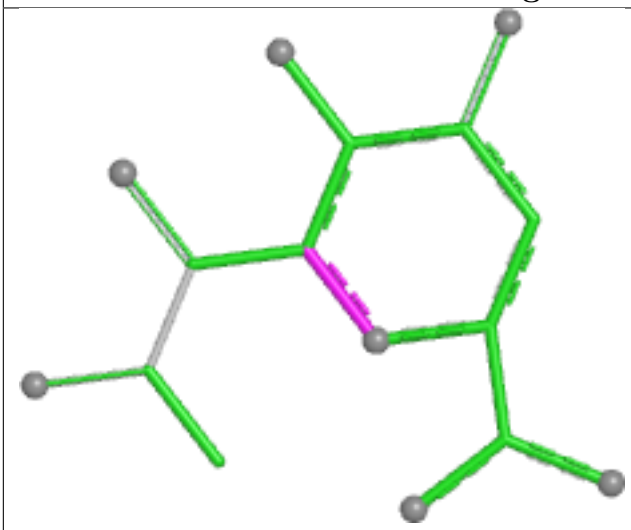


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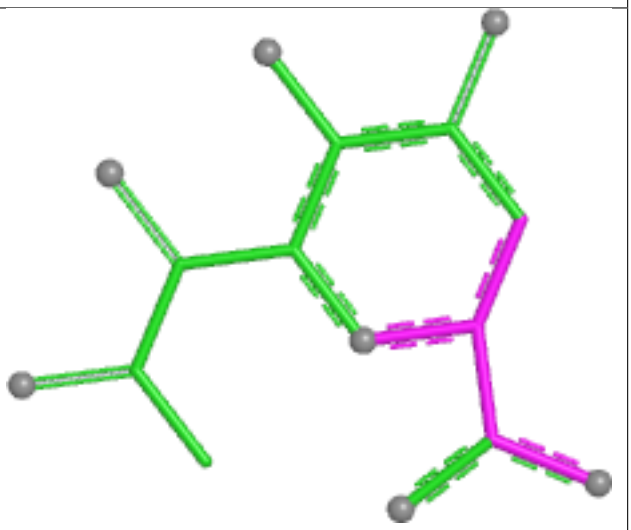


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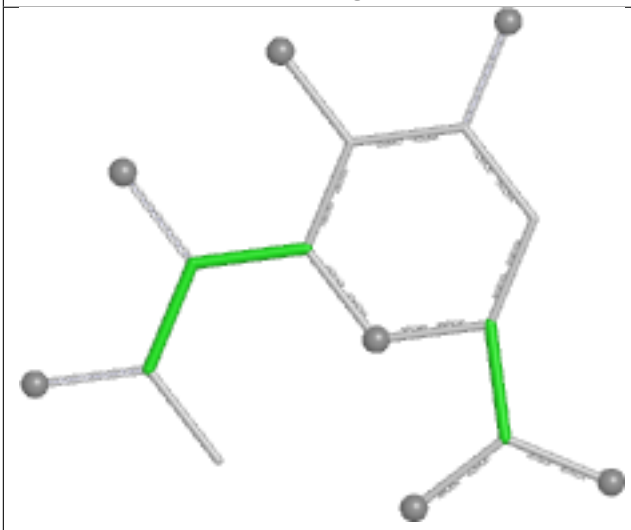
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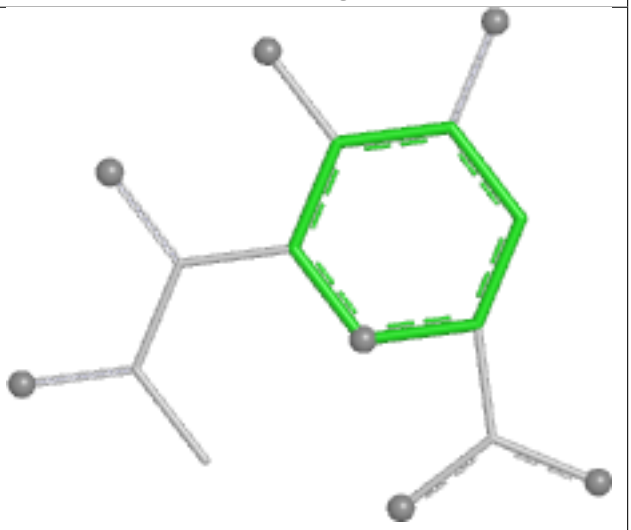
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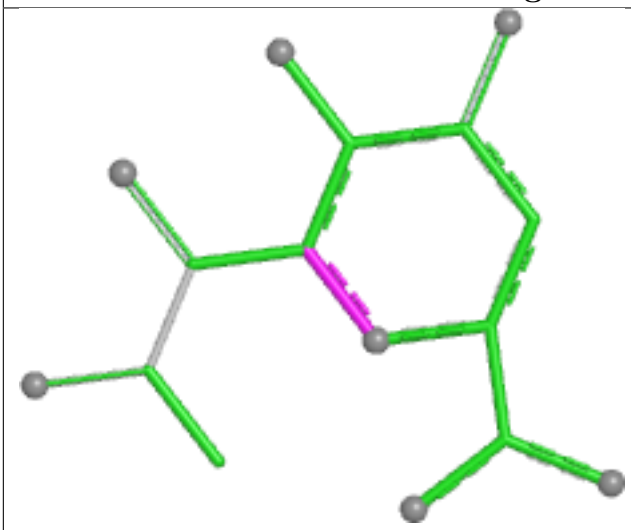


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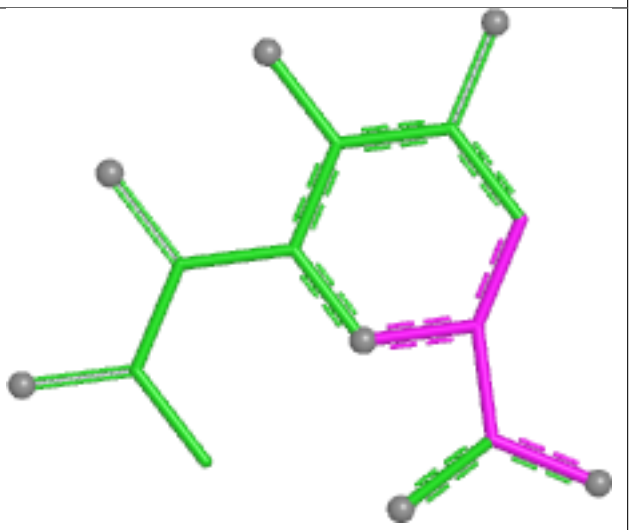


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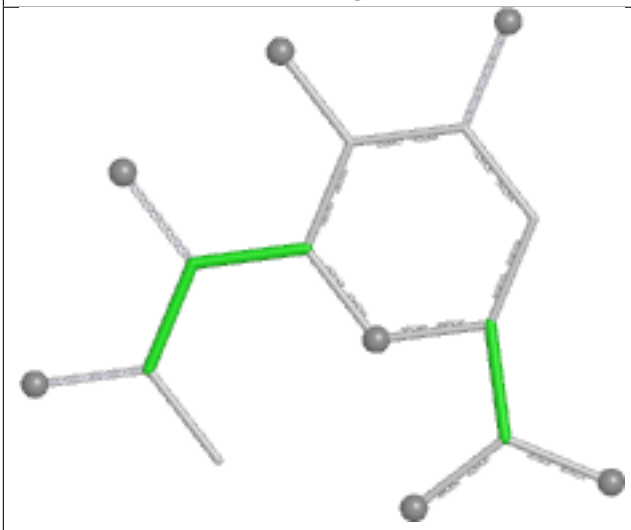
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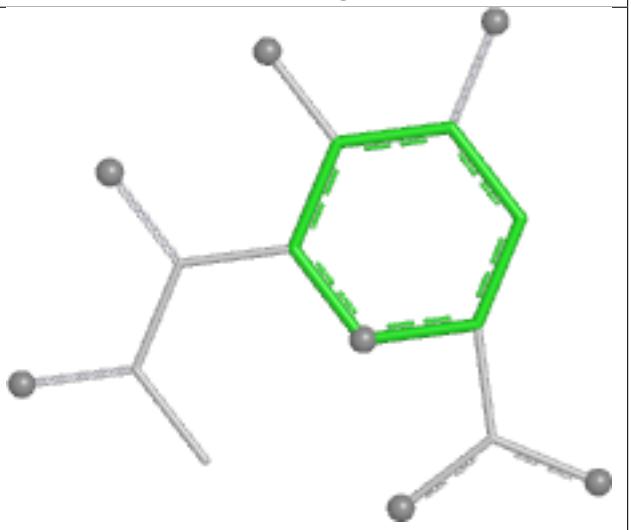
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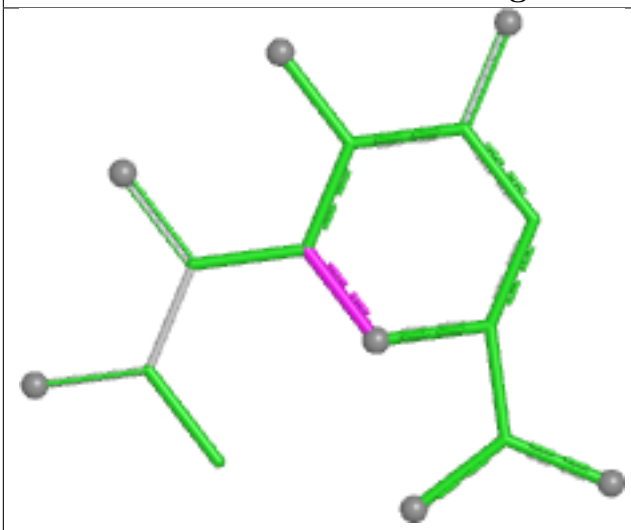


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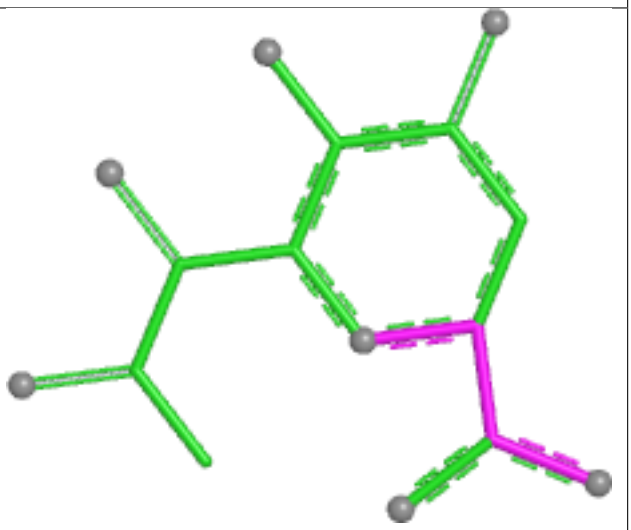


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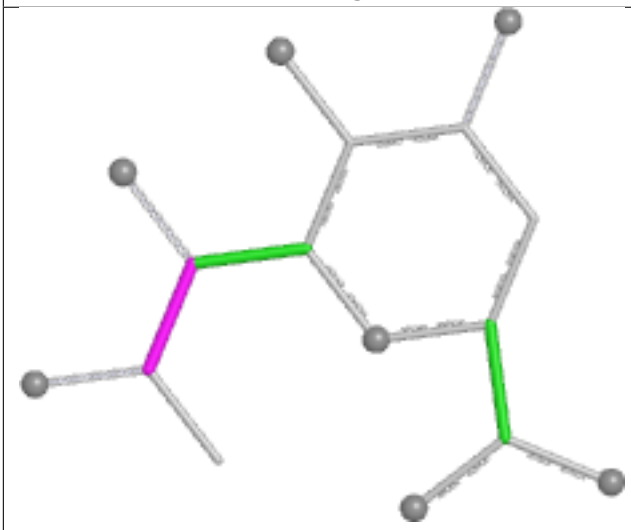
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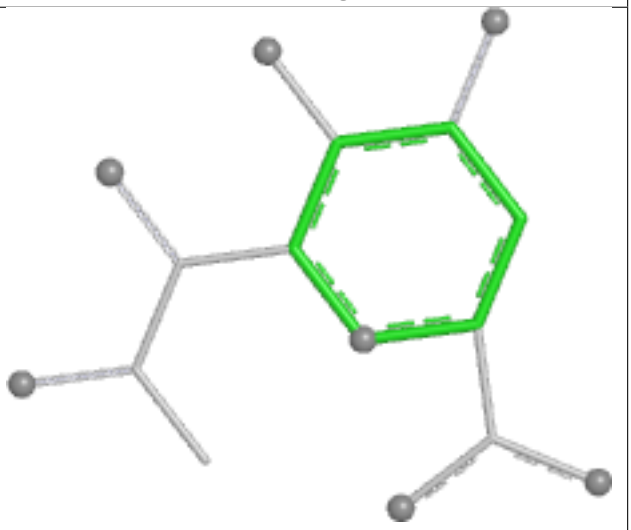
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Bond angles

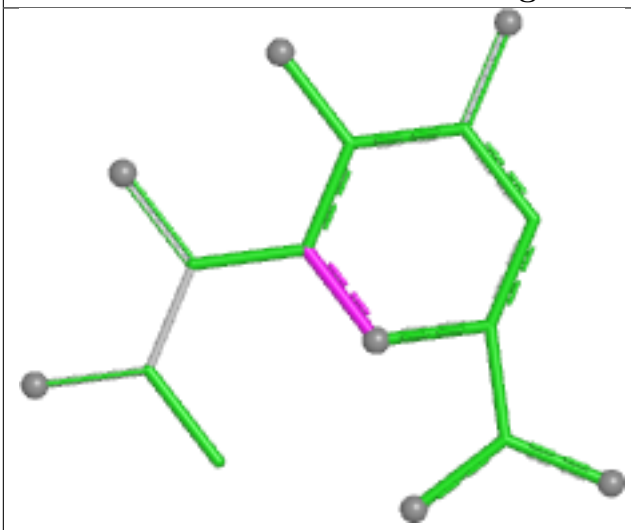


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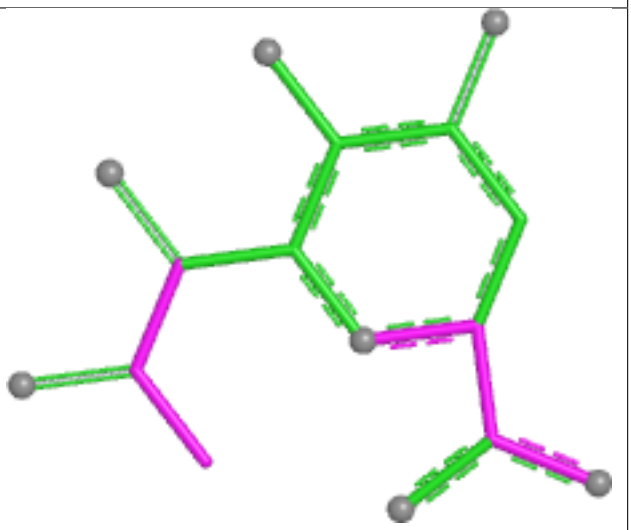


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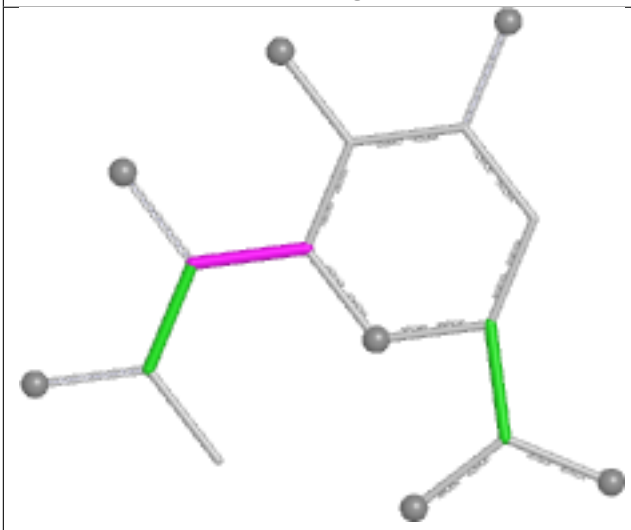
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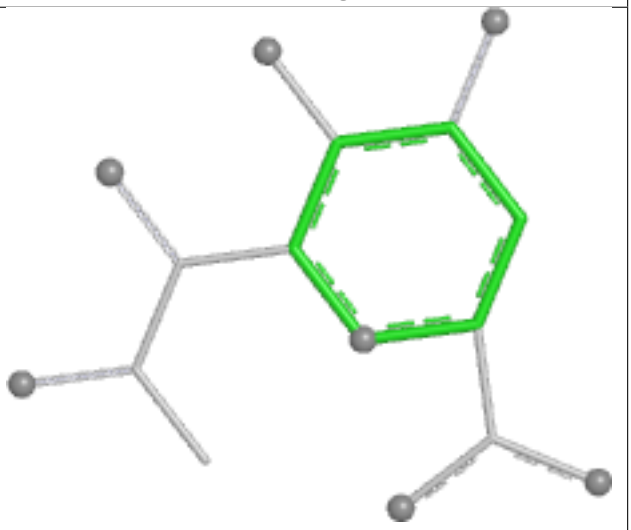
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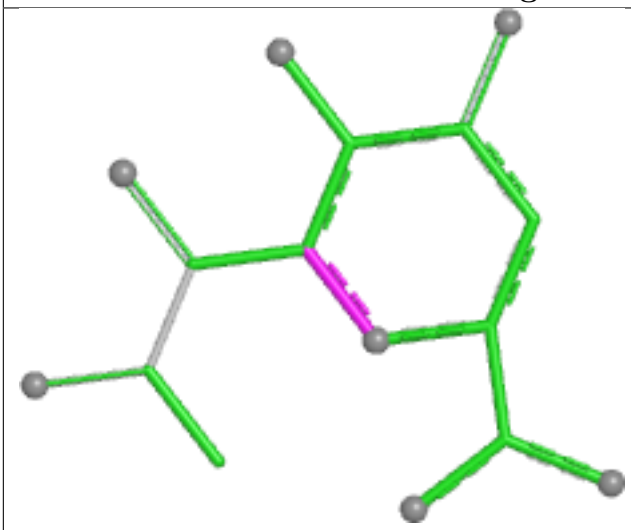


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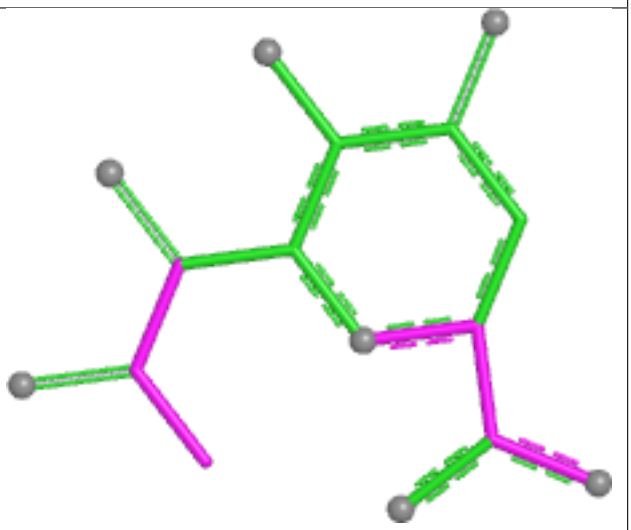


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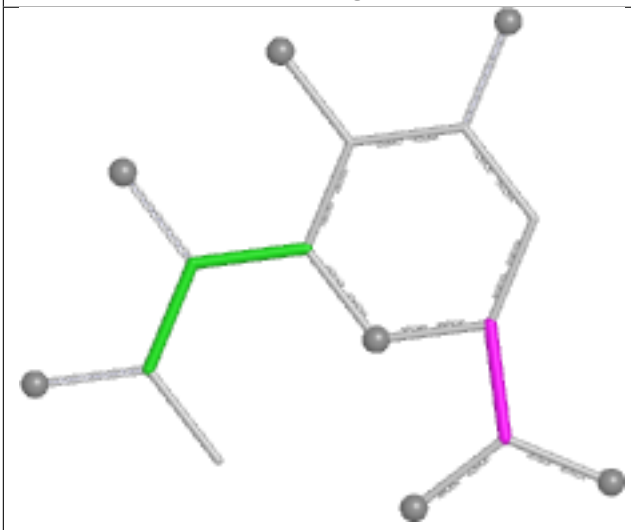
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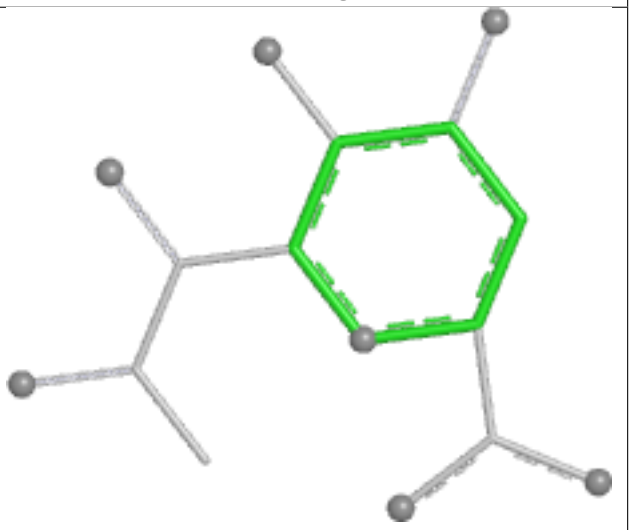
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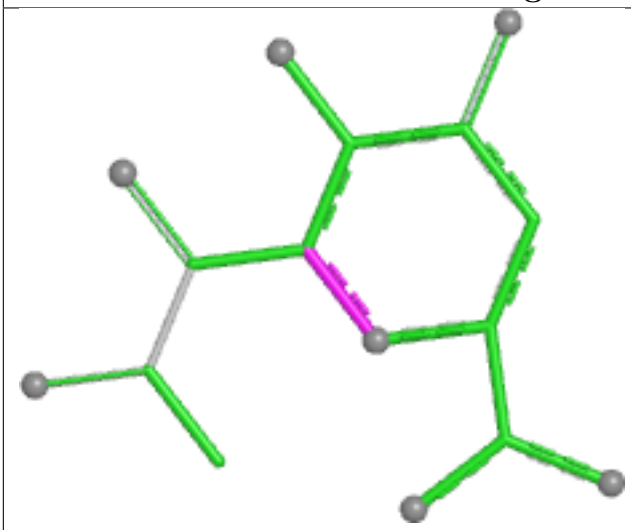


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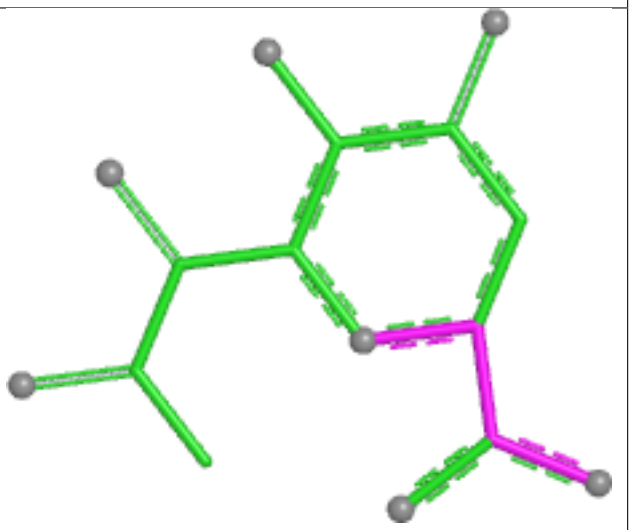


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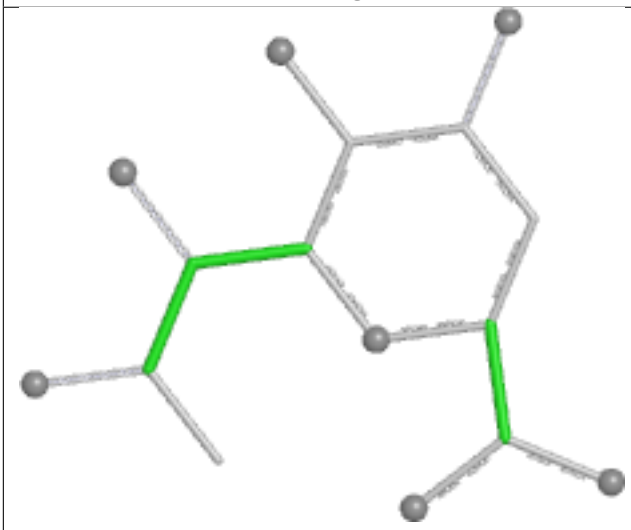
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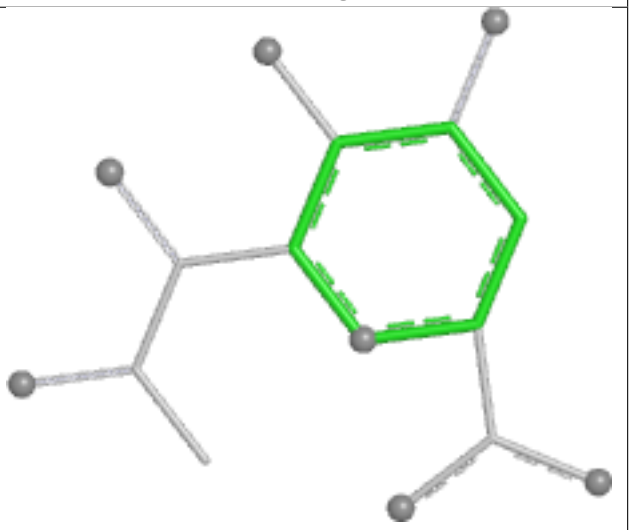
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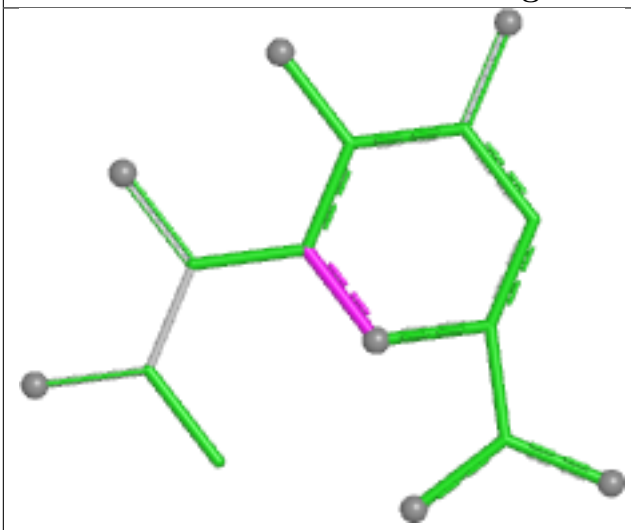


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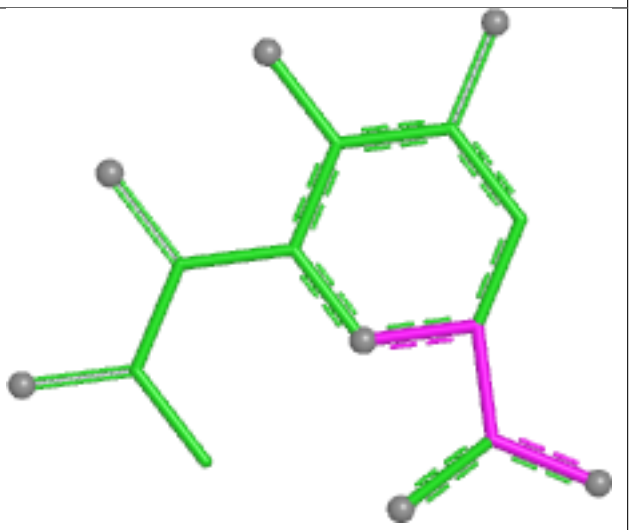


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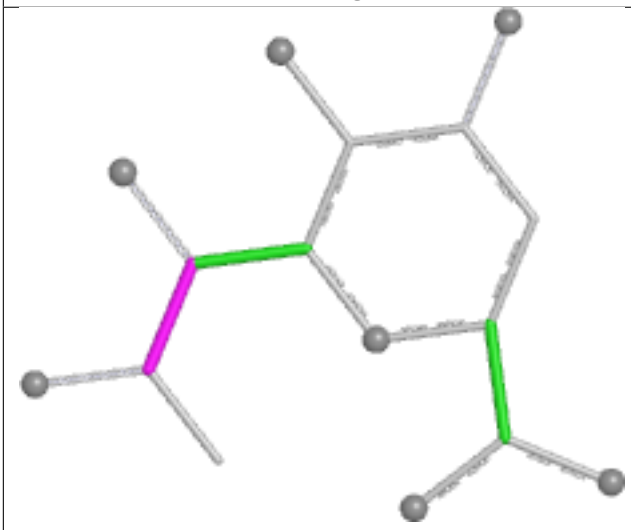
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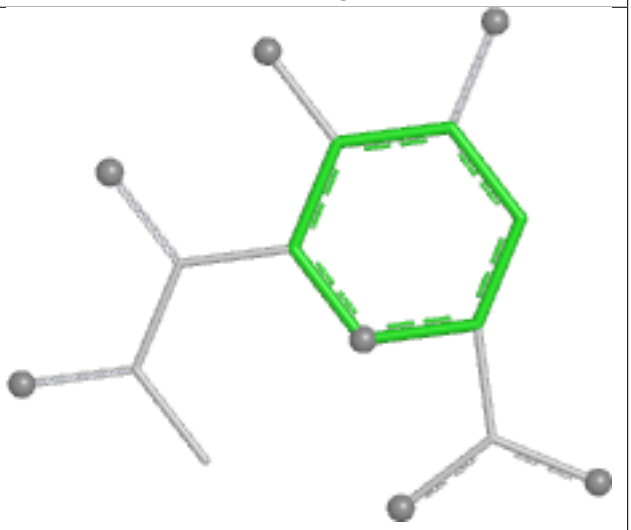
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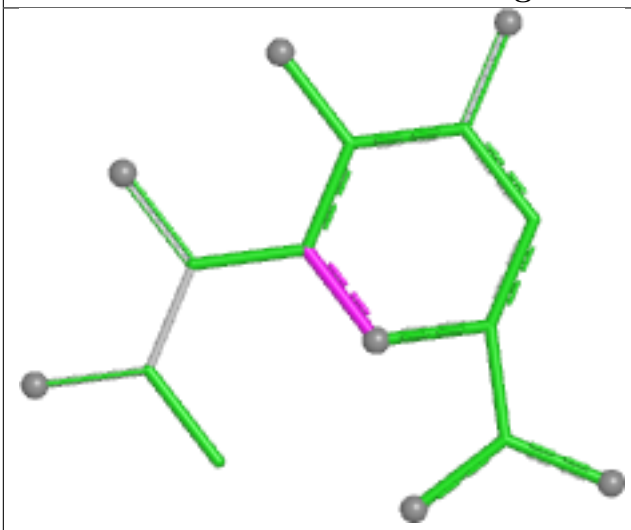


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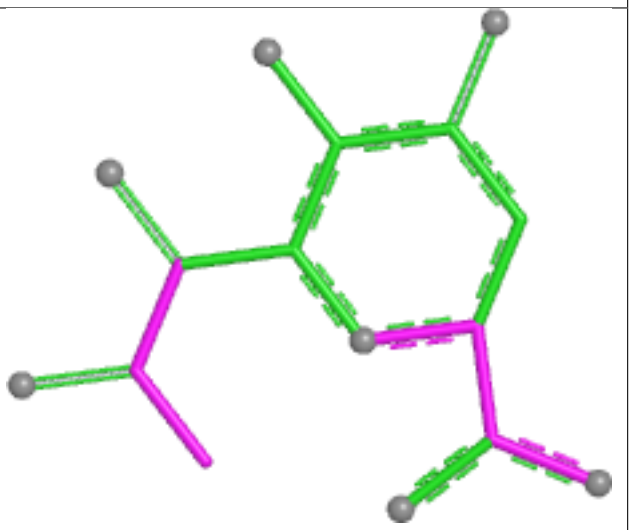


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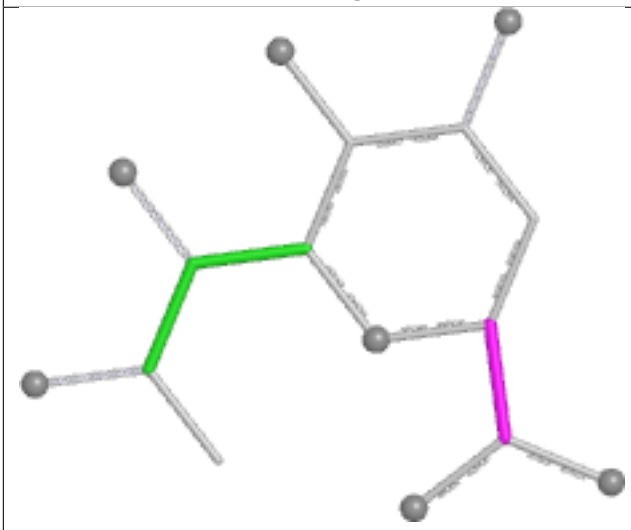
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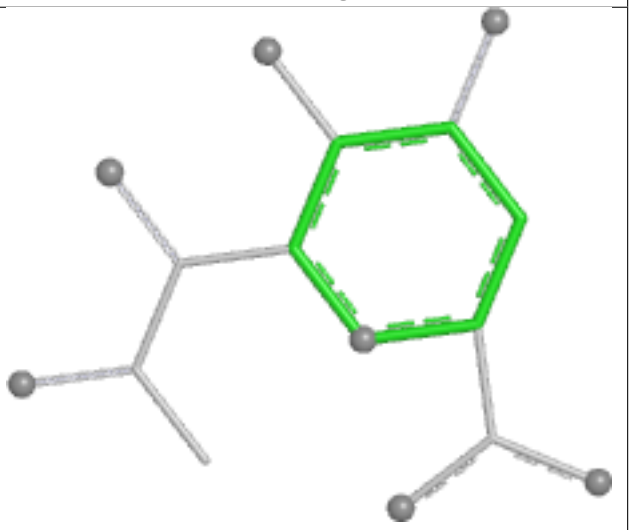
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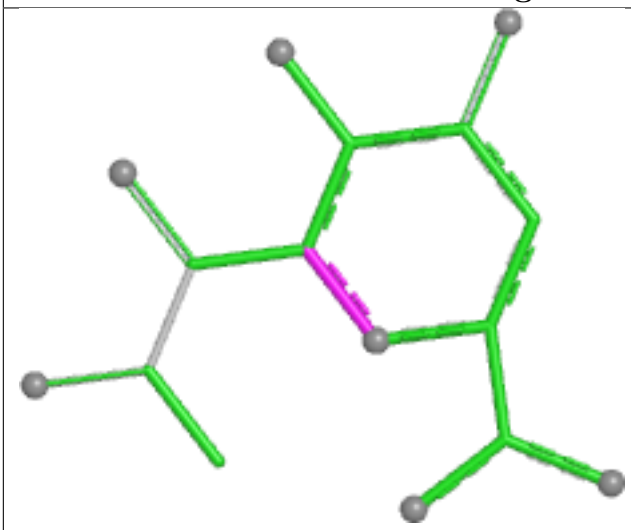


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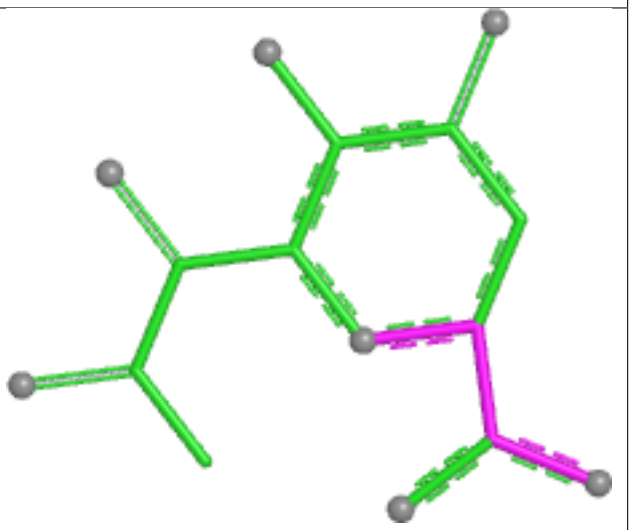


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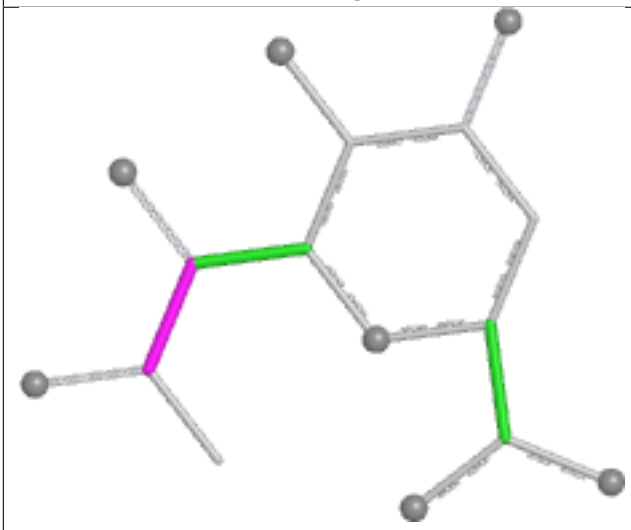
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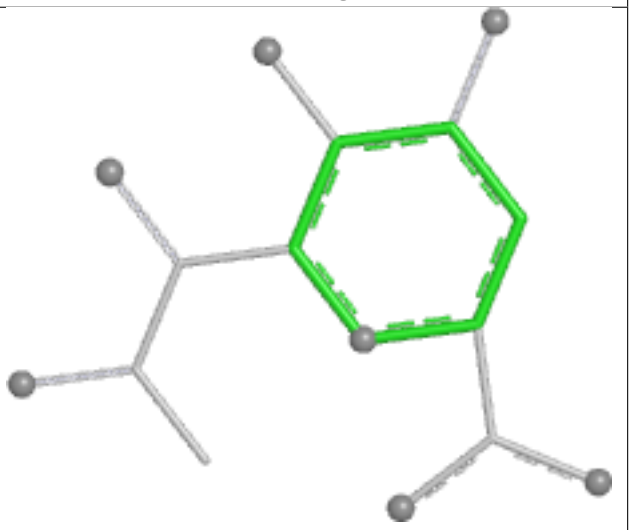
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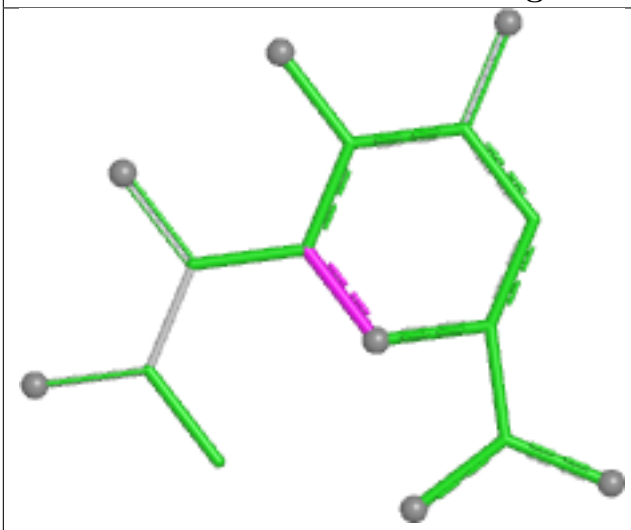


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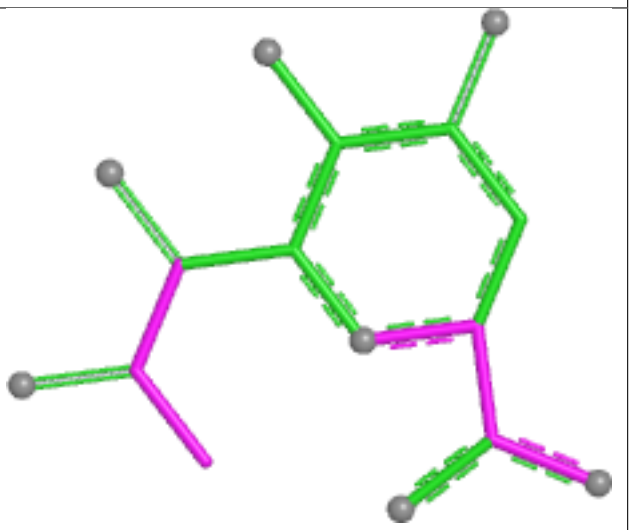


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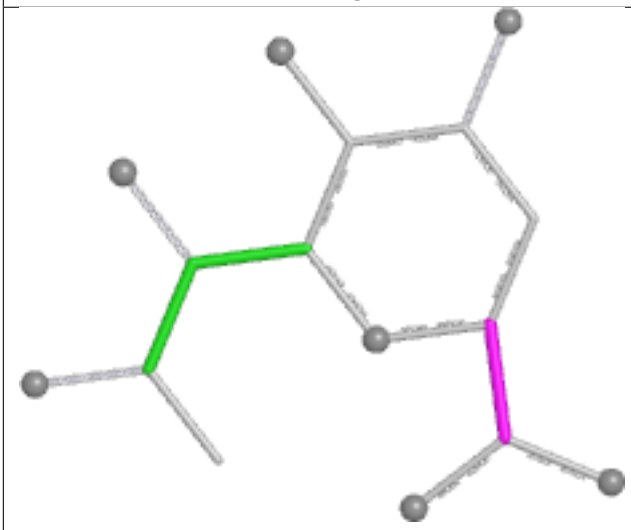
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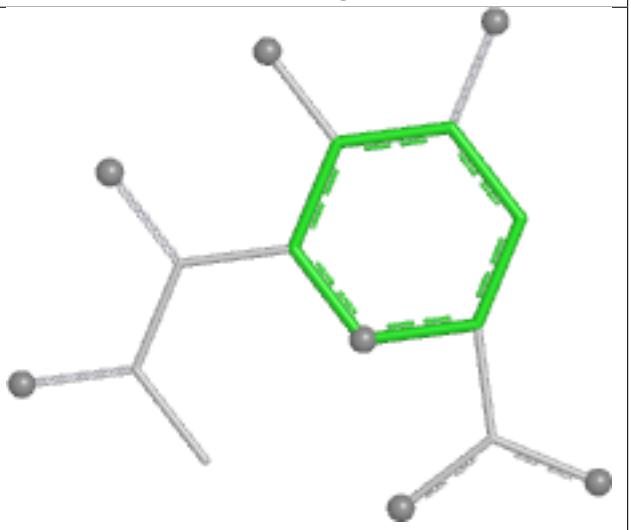
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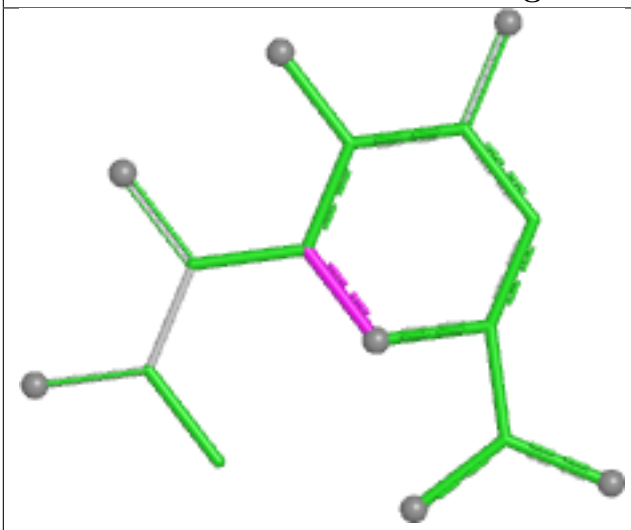


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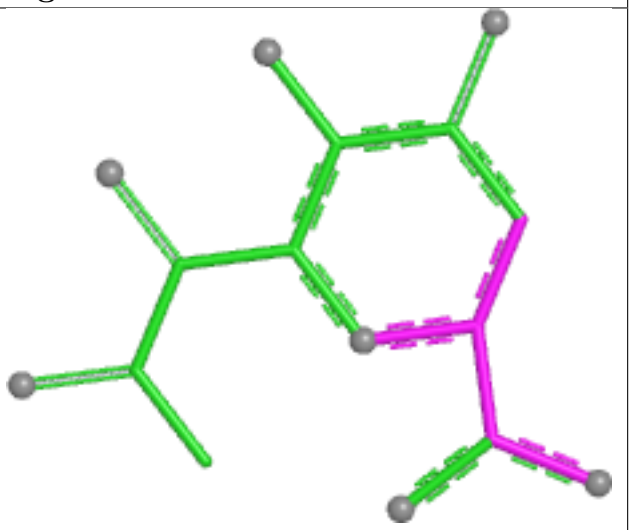


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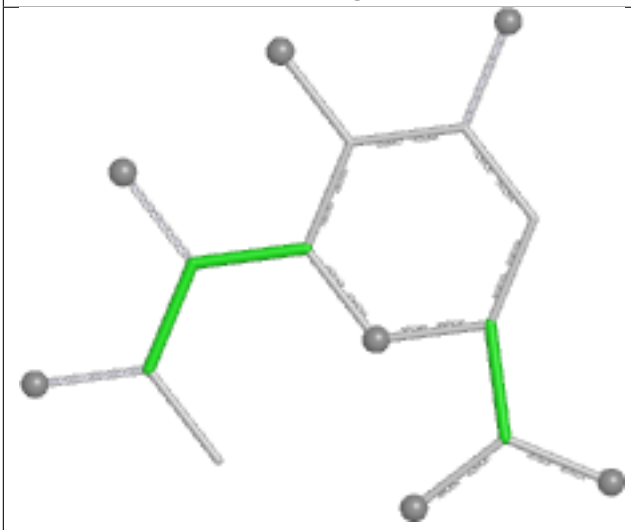
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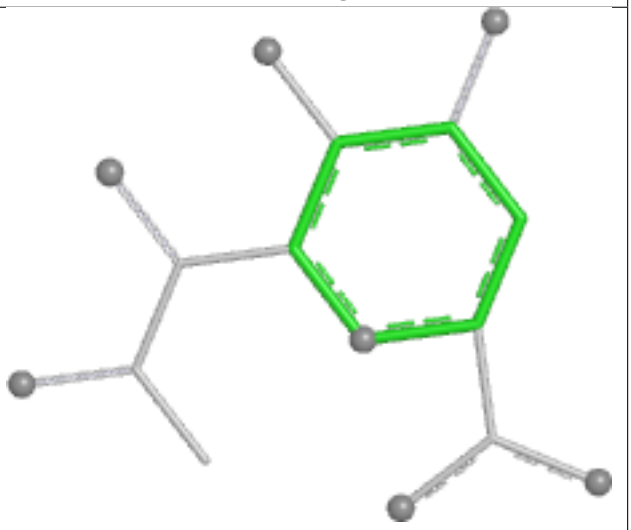
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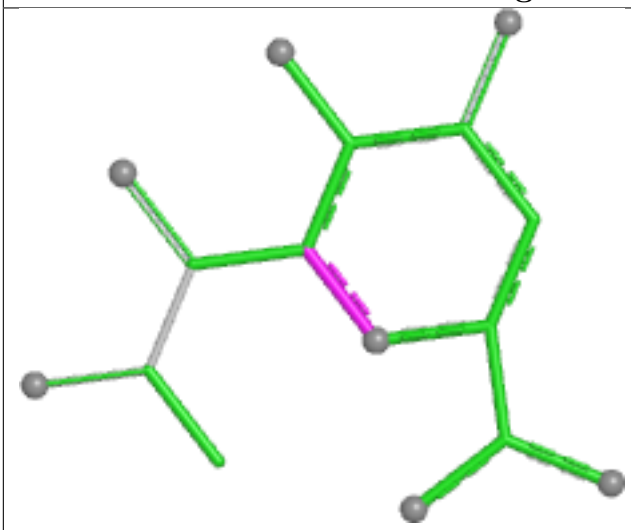


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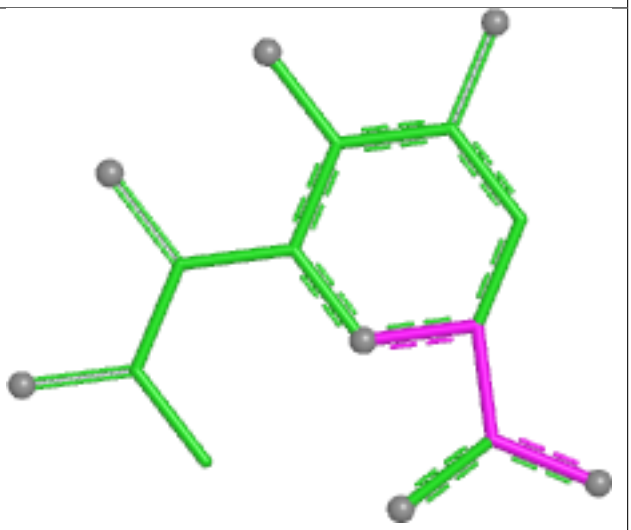


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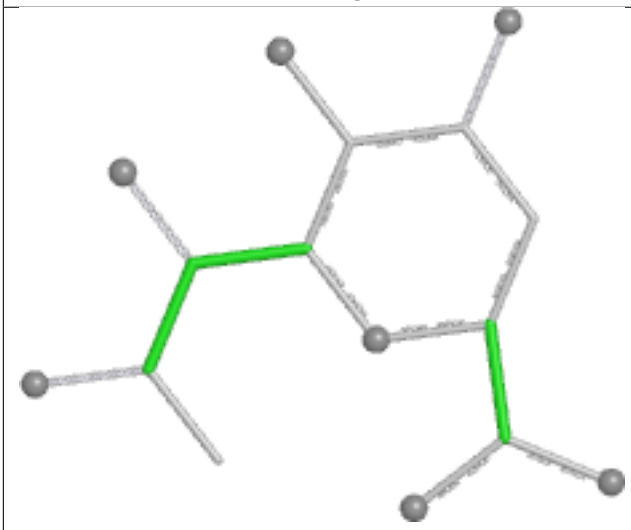
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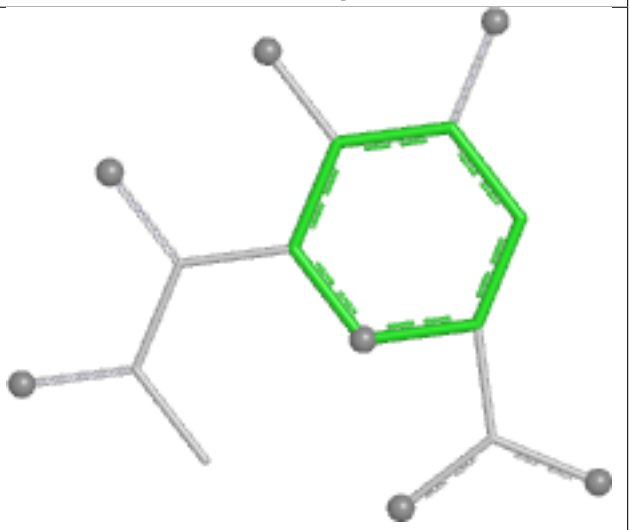
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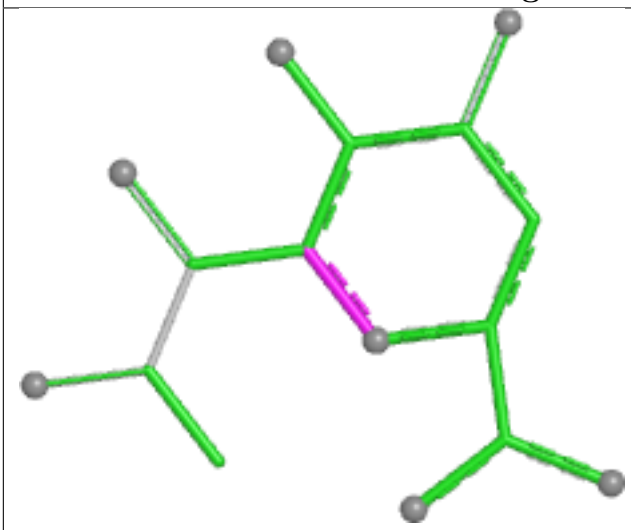


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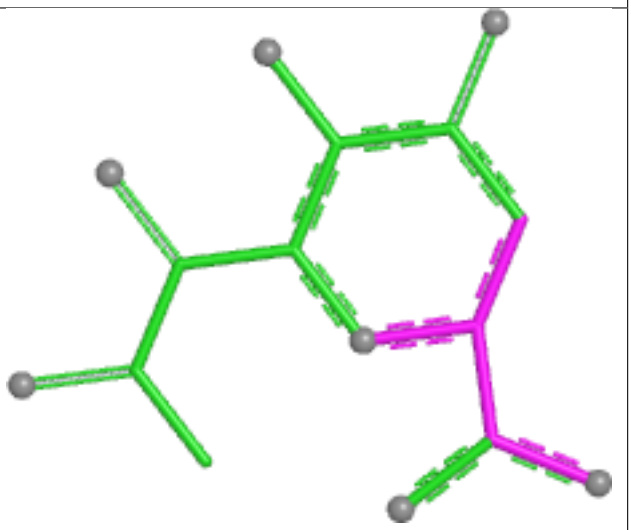


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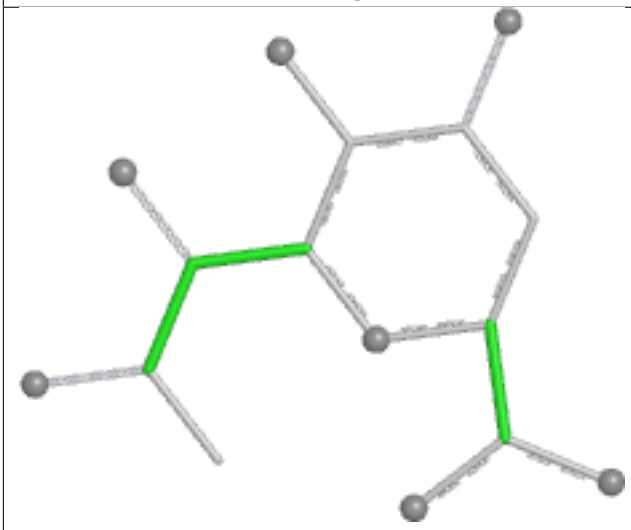
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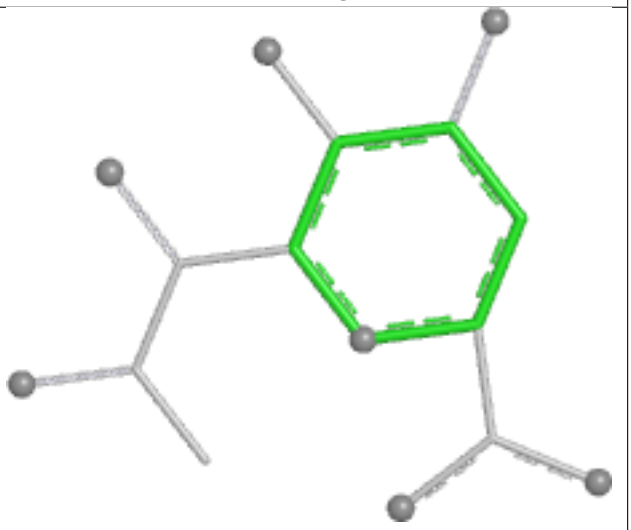
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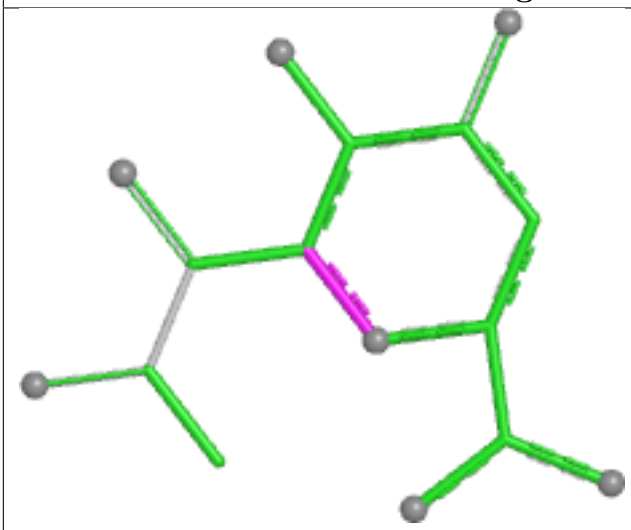


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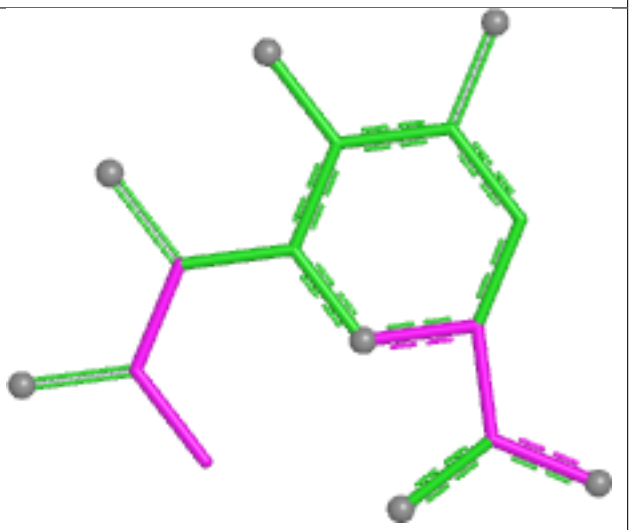


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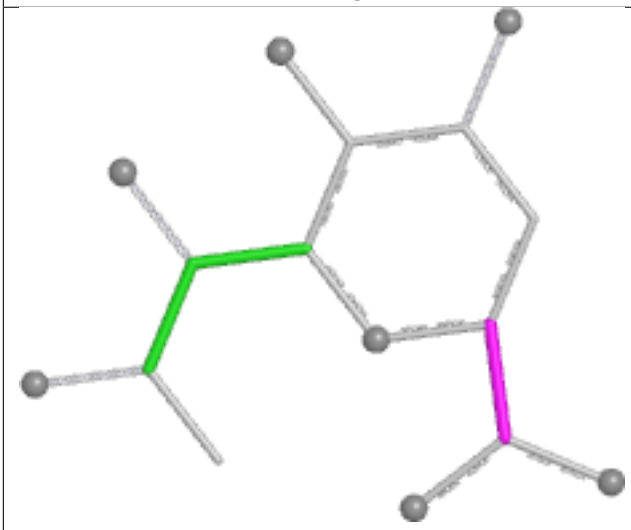
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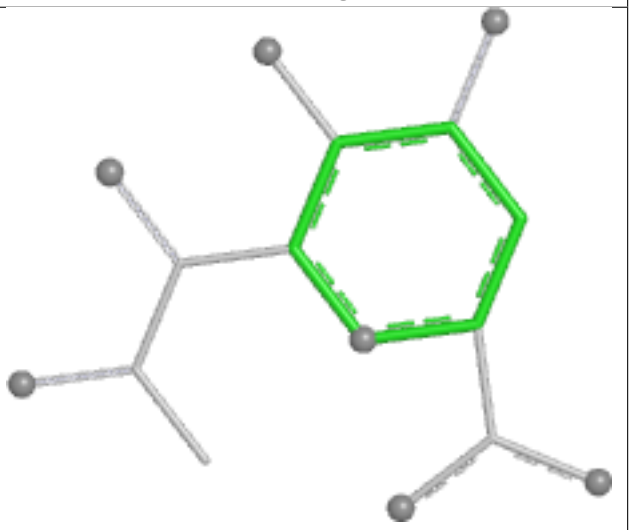
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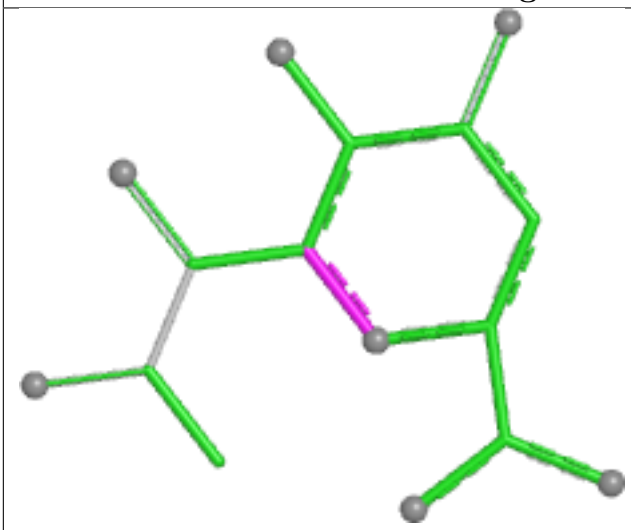


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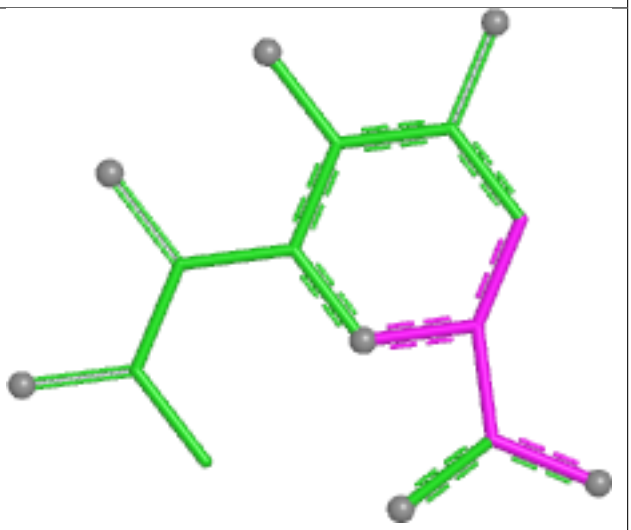


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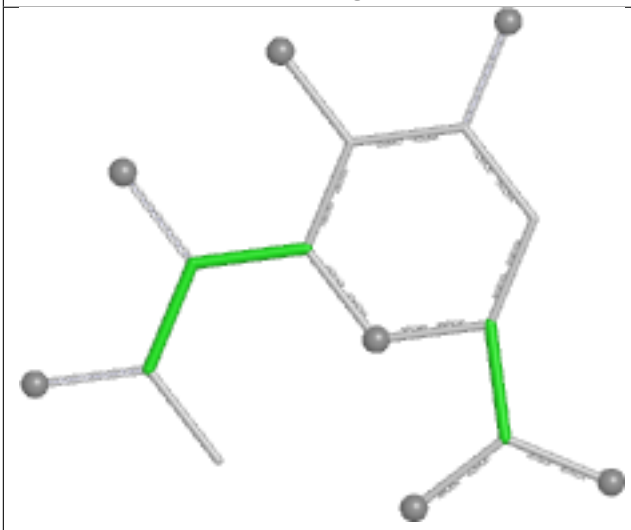
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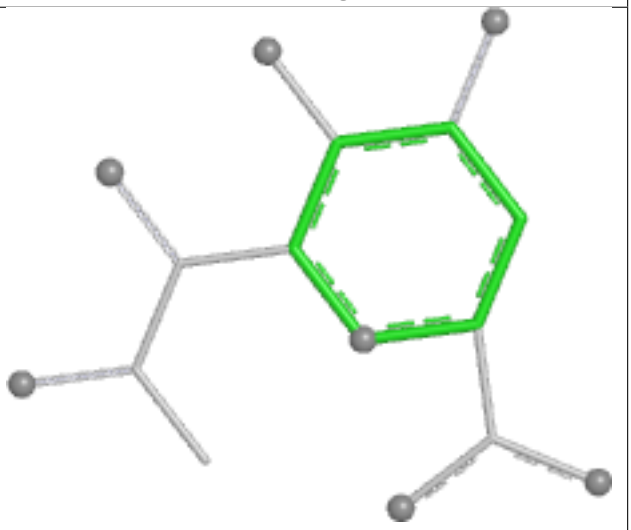
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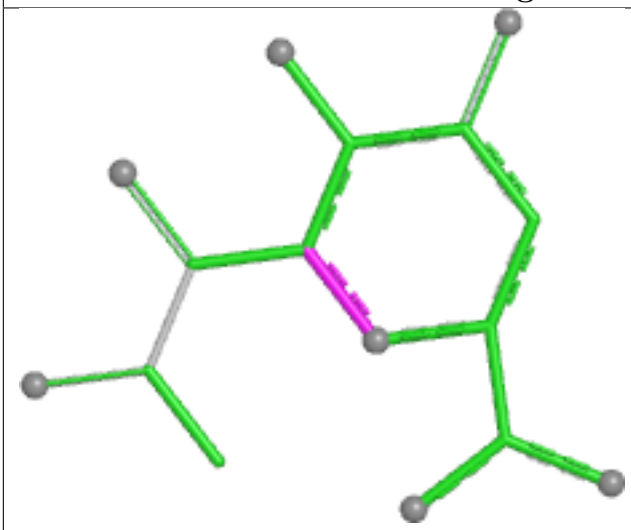


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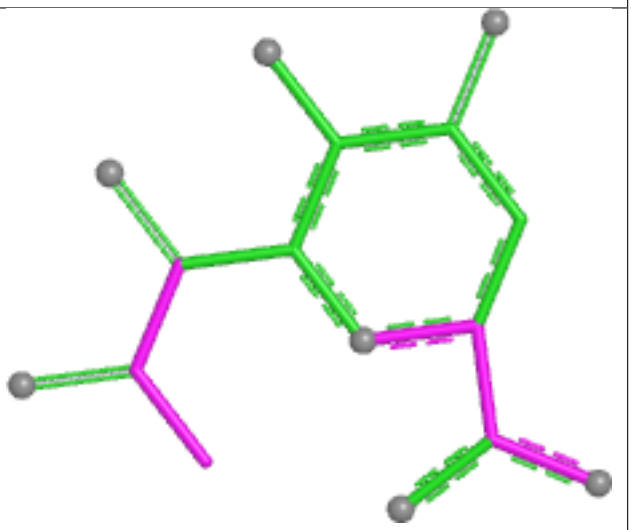


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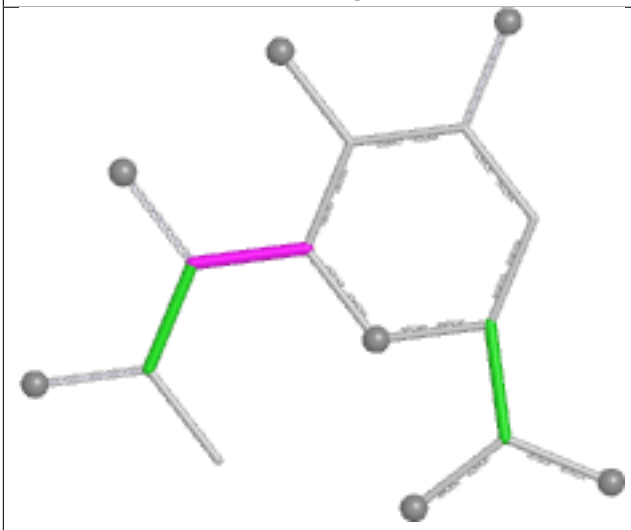
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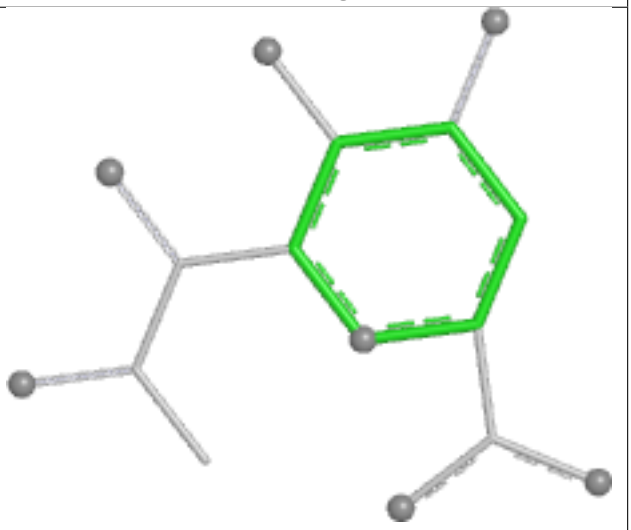
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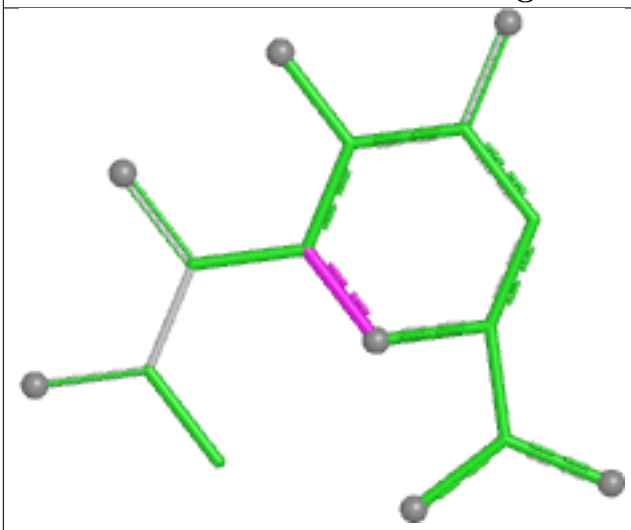


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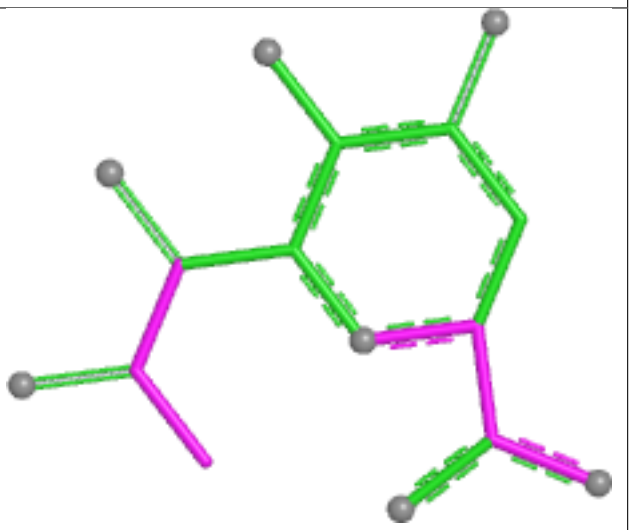


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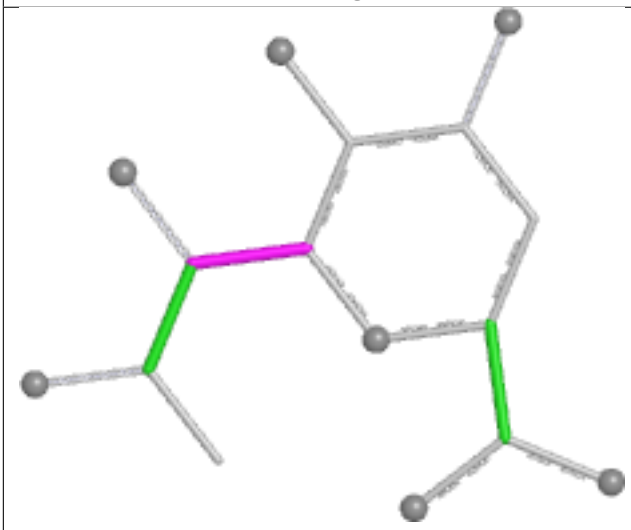
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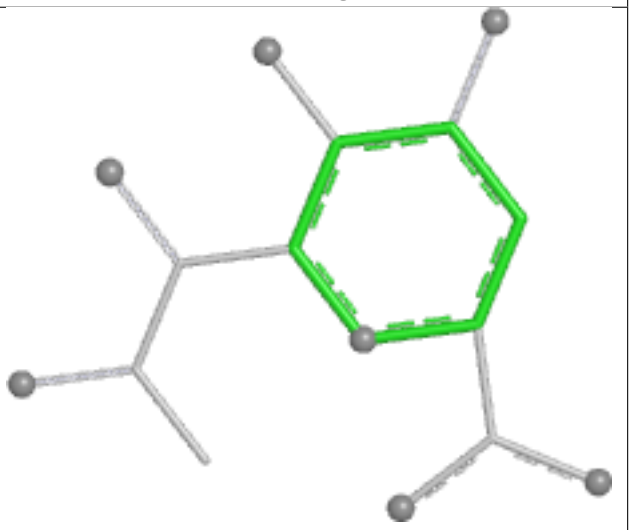
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Bond angles

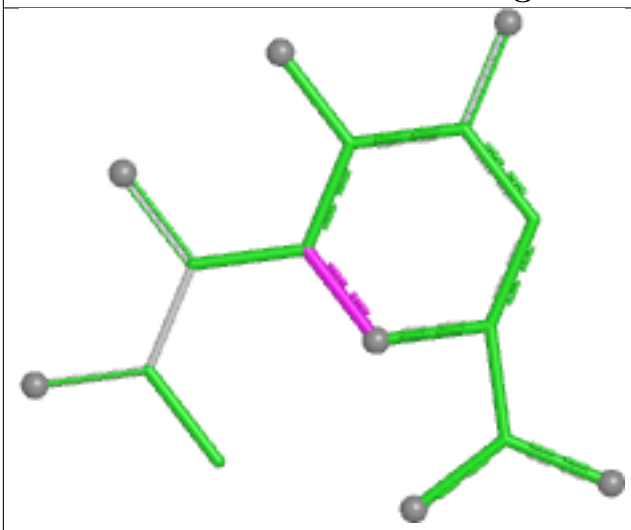


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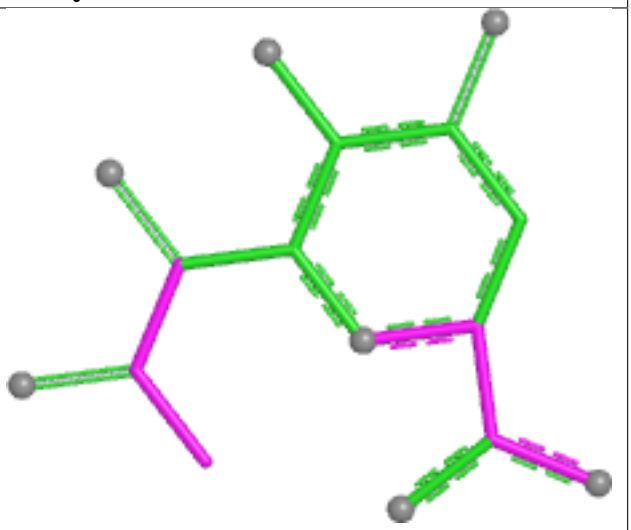


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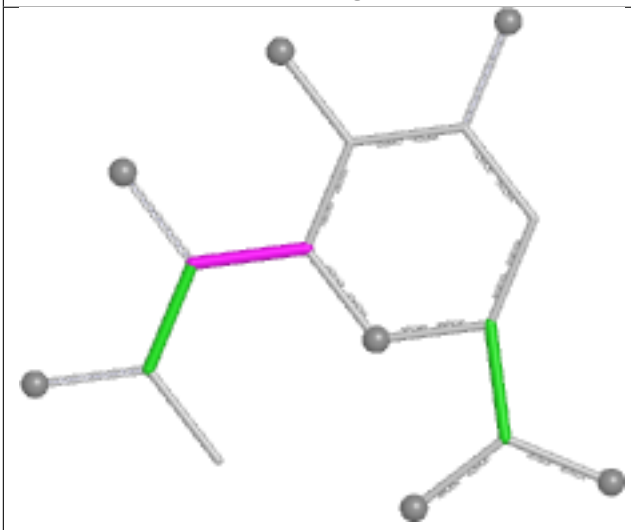
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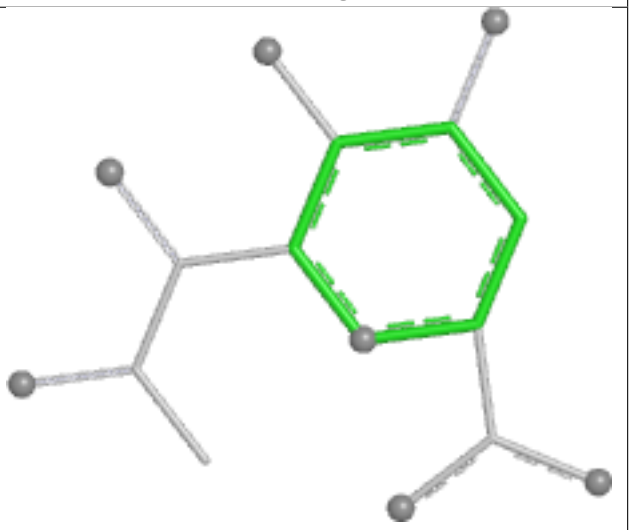
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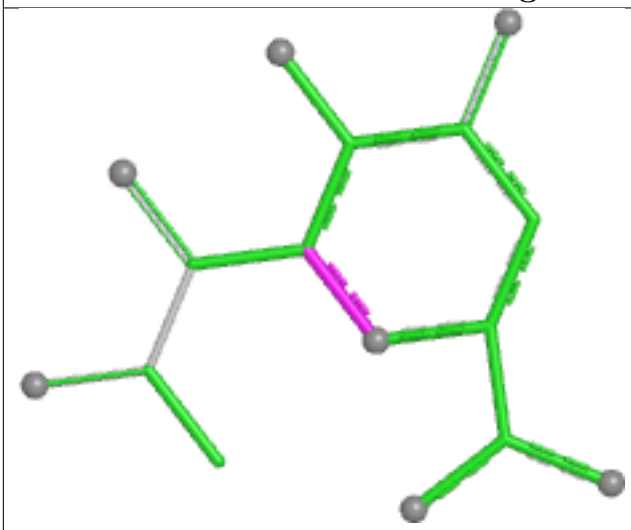


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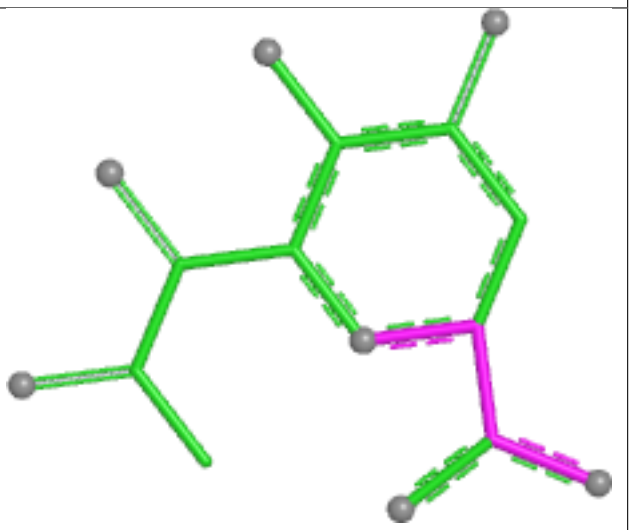


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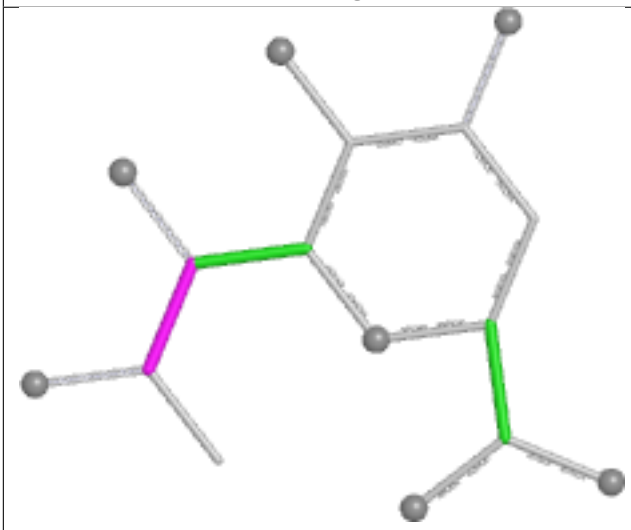
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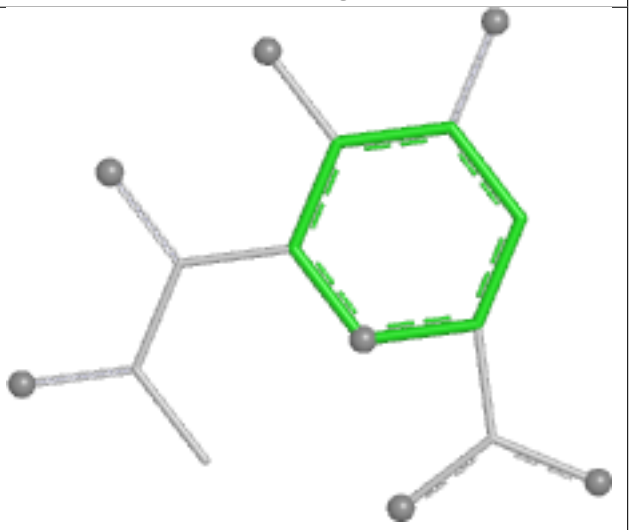
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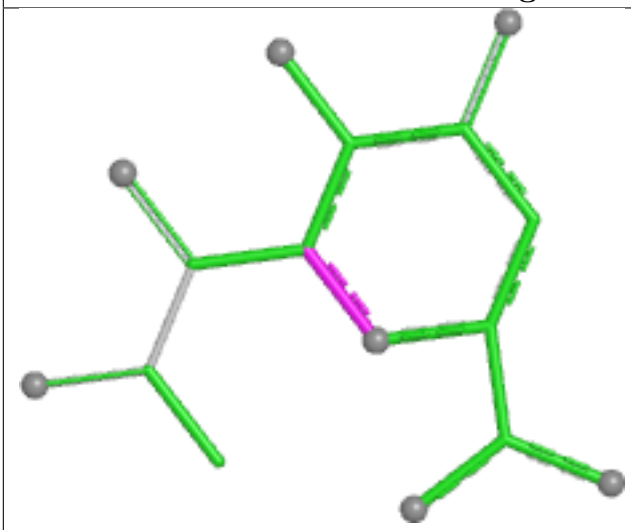


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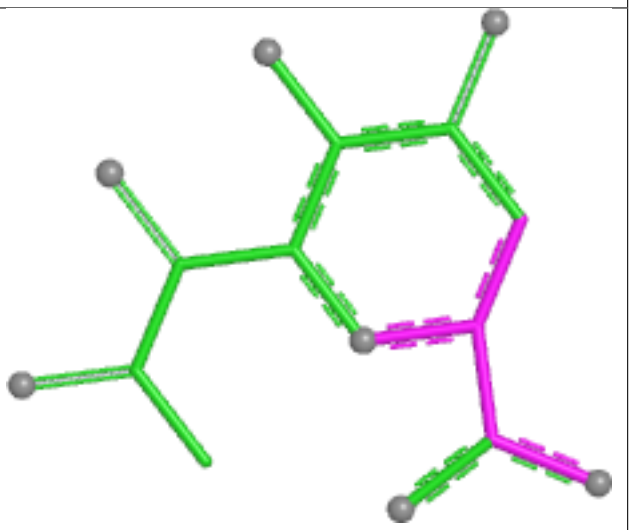


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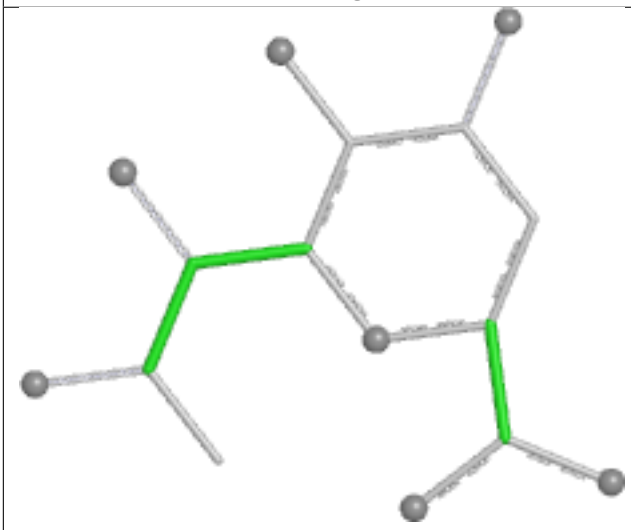
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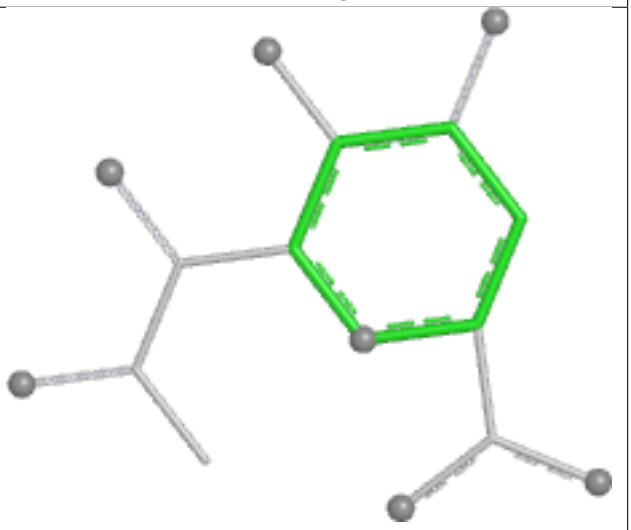
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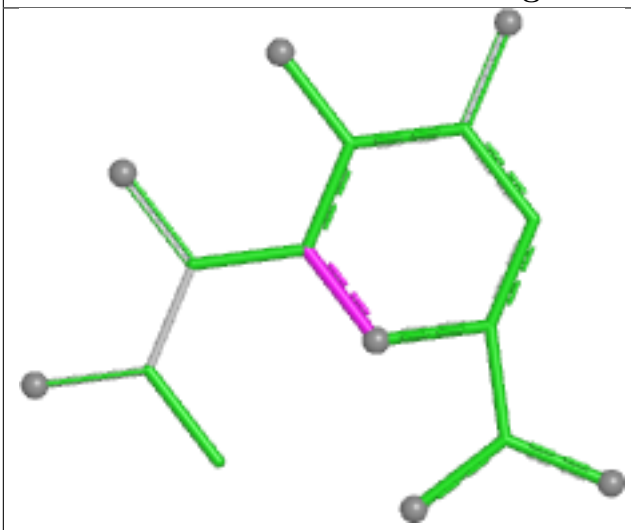


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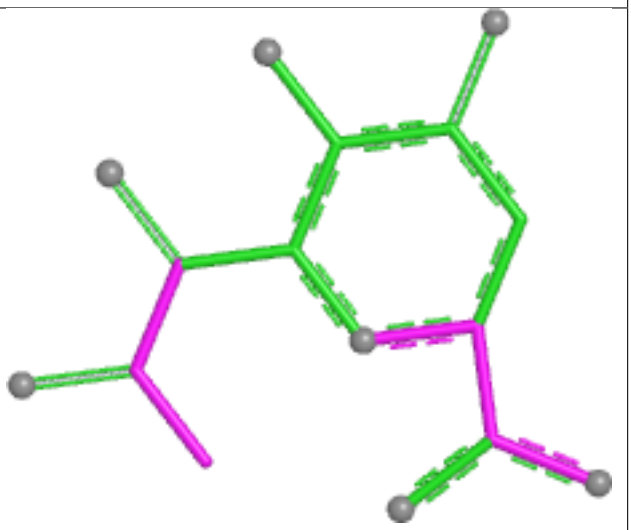


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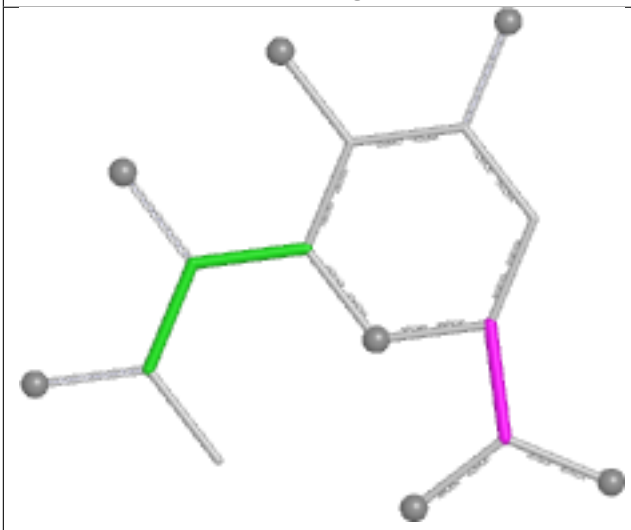
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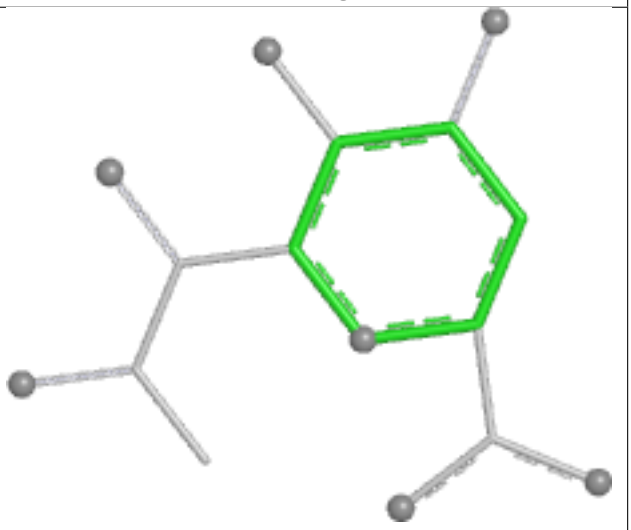
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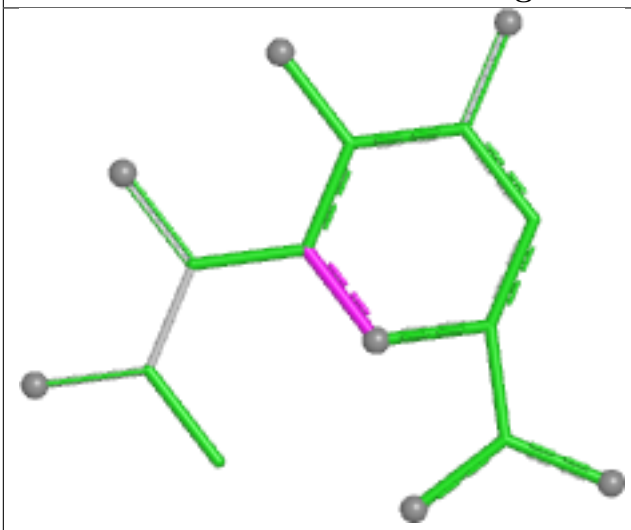


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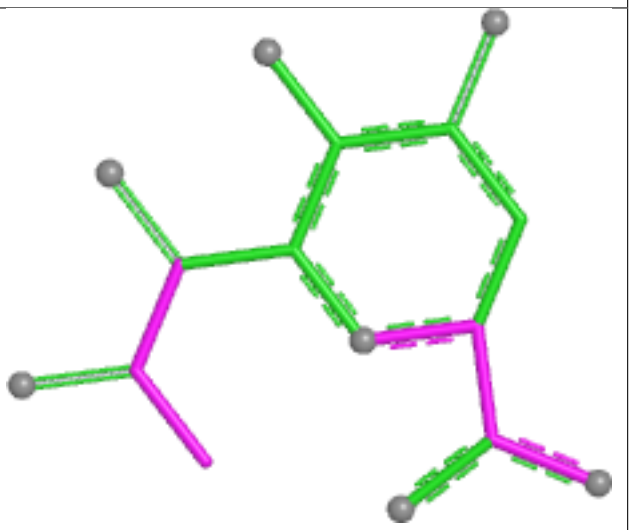


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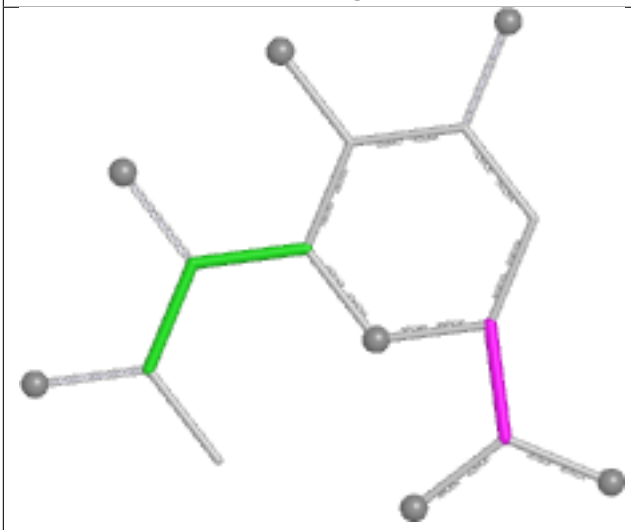
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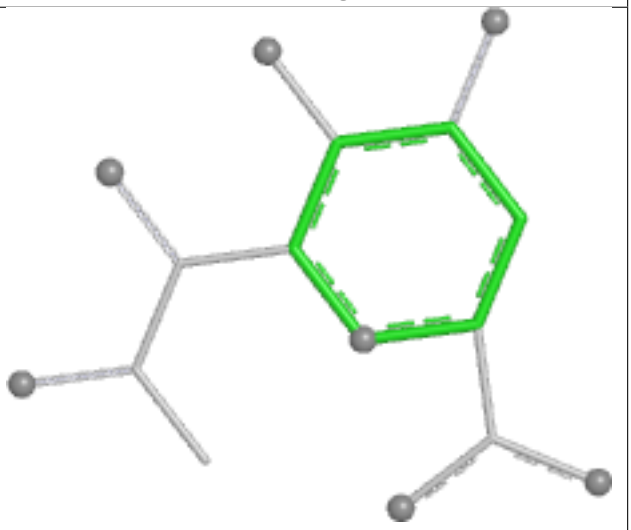
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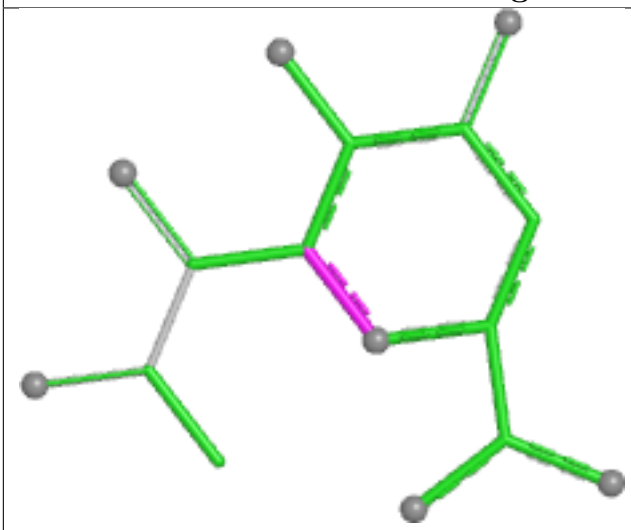


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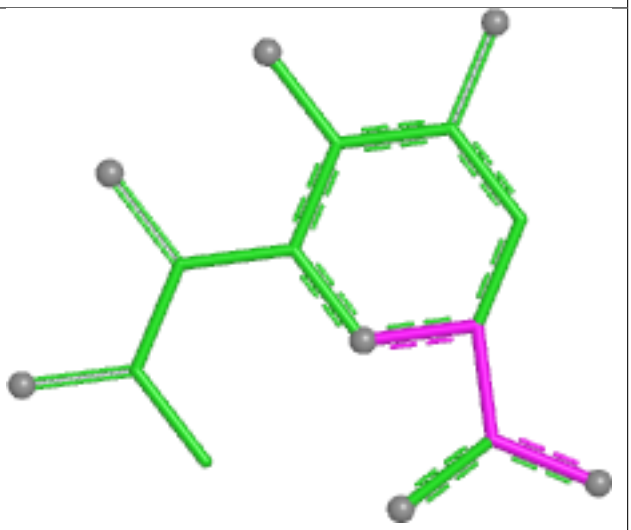


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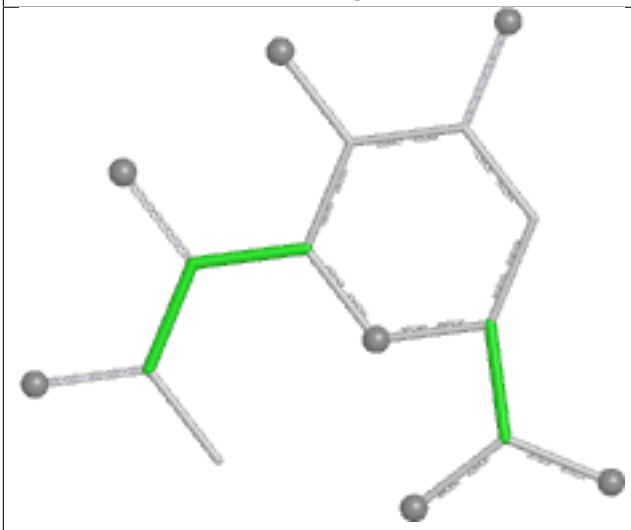
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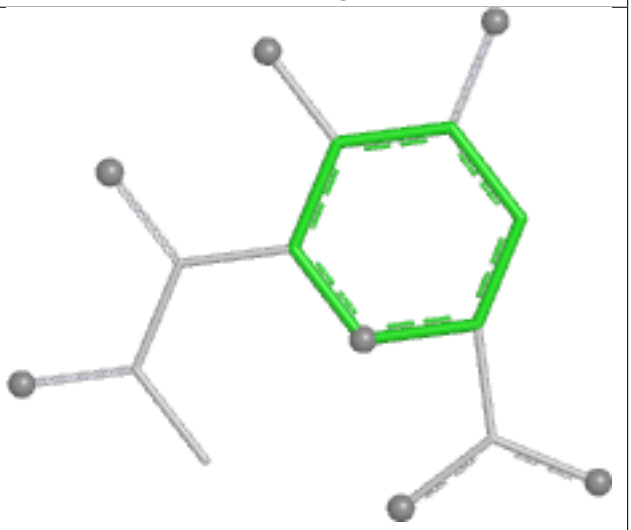
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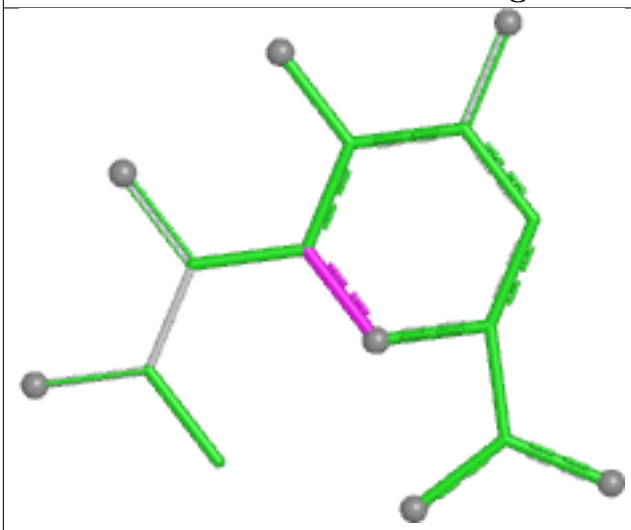


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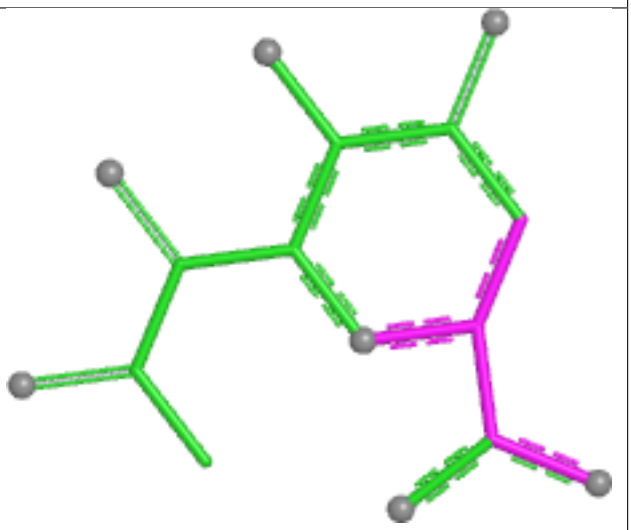


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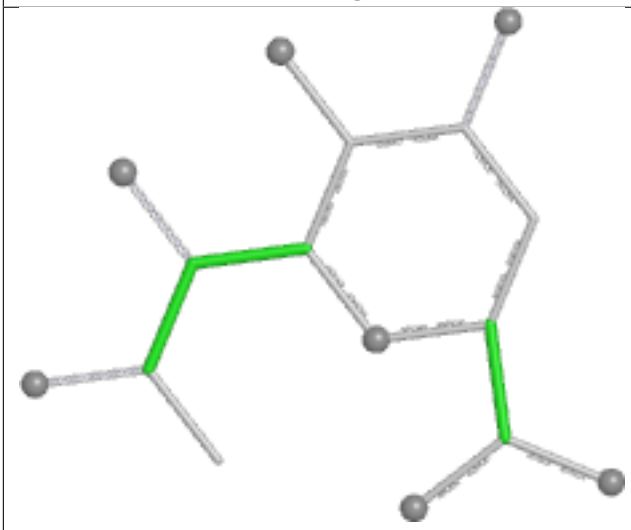
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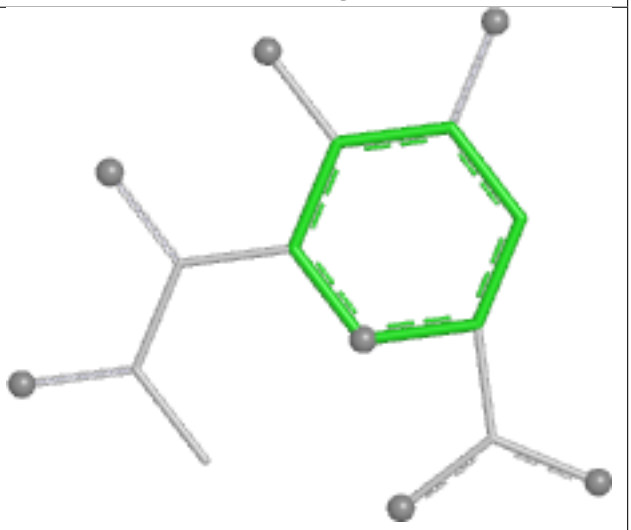
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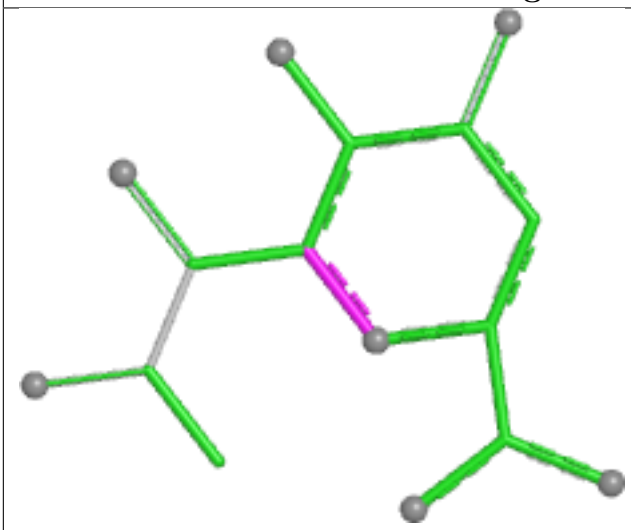


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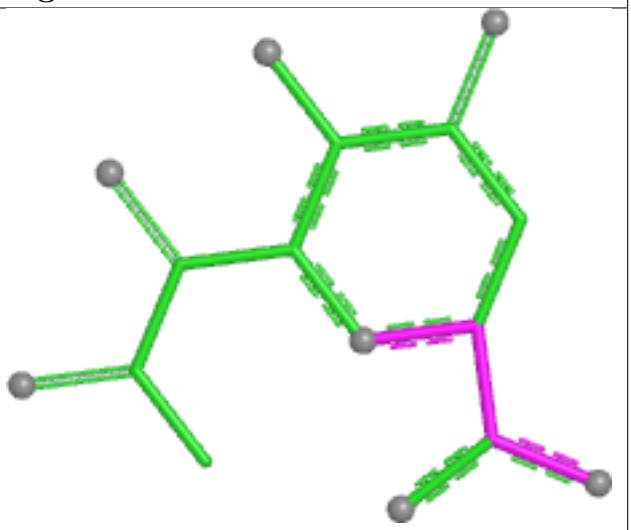


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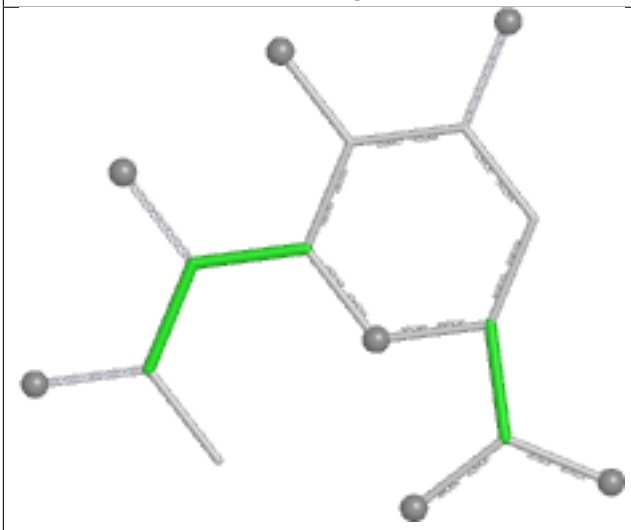
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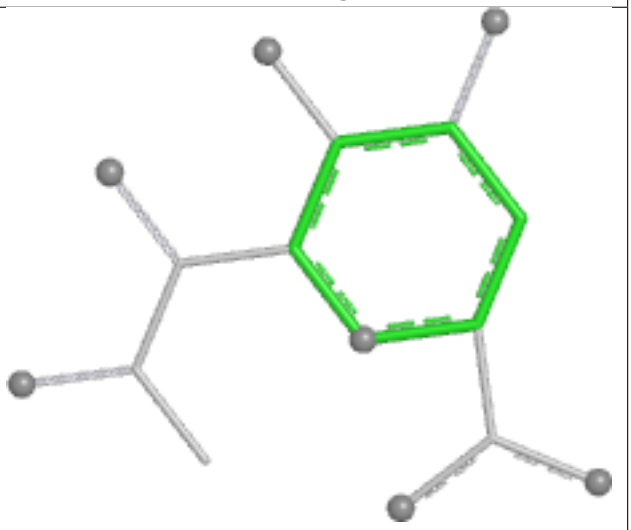
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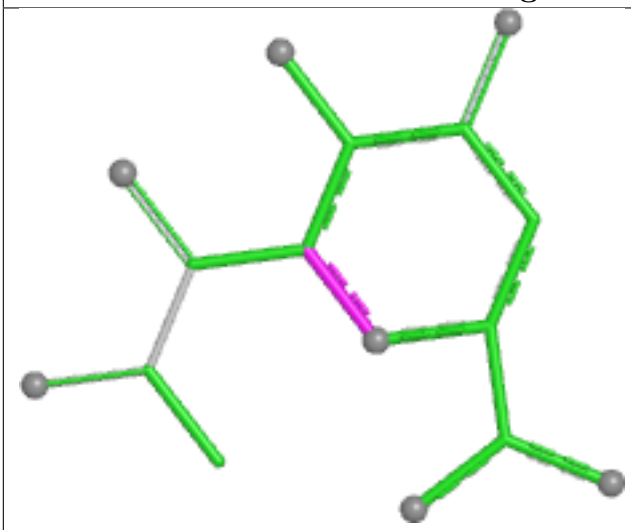


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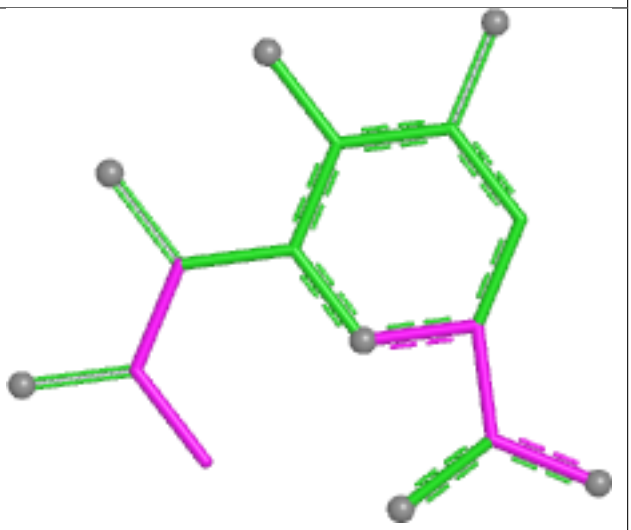


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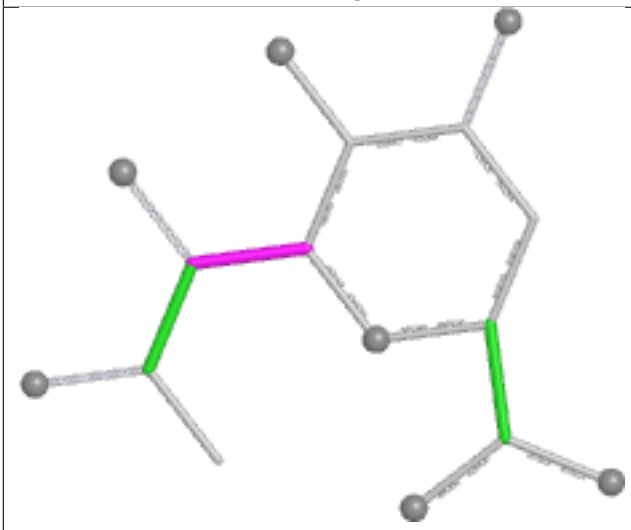
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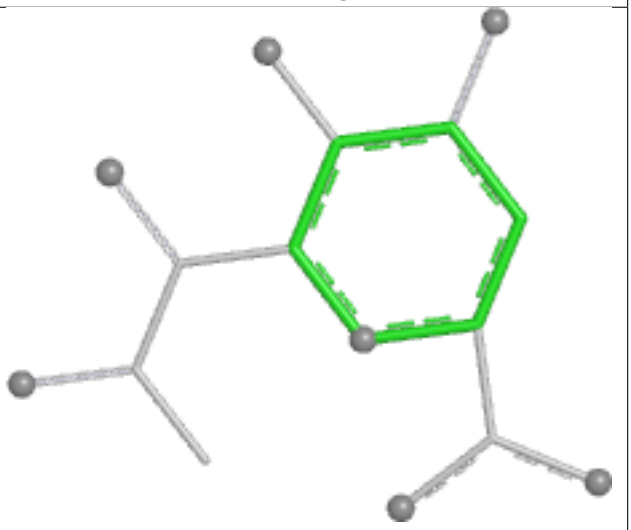
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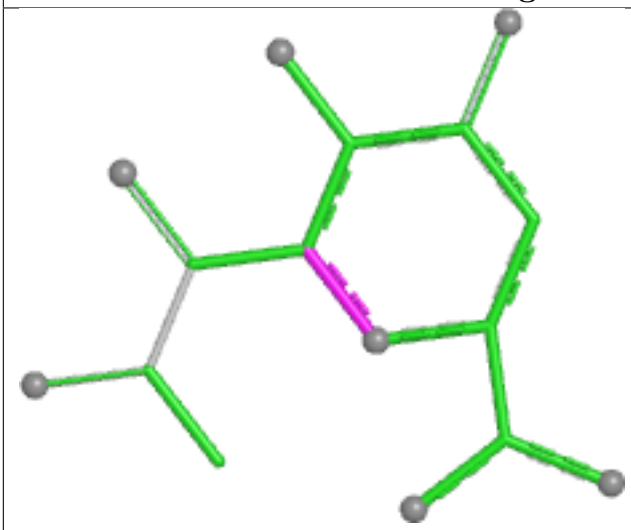


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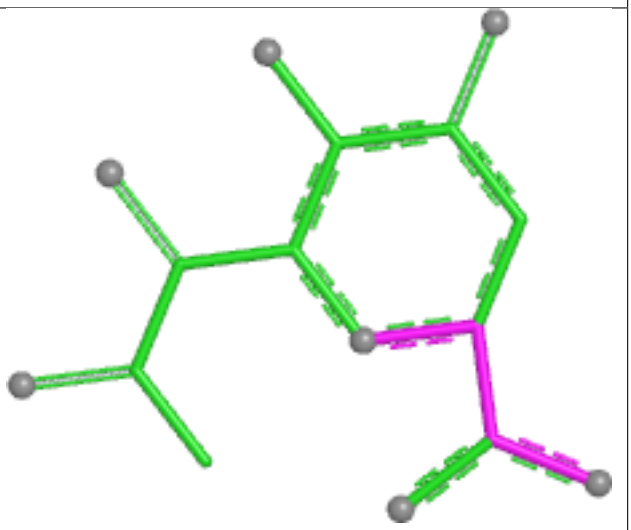


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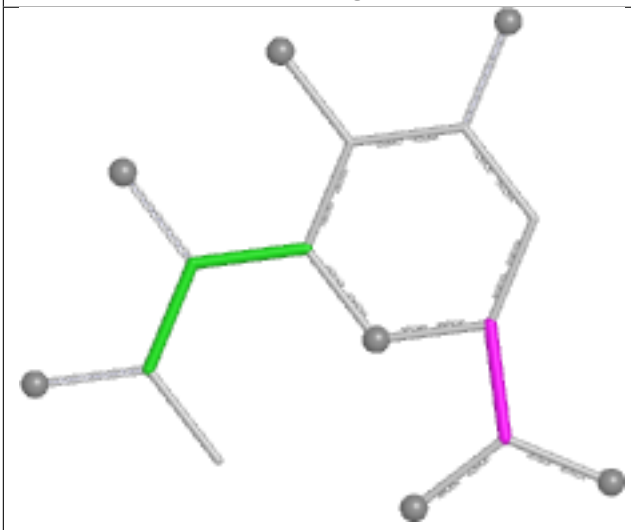
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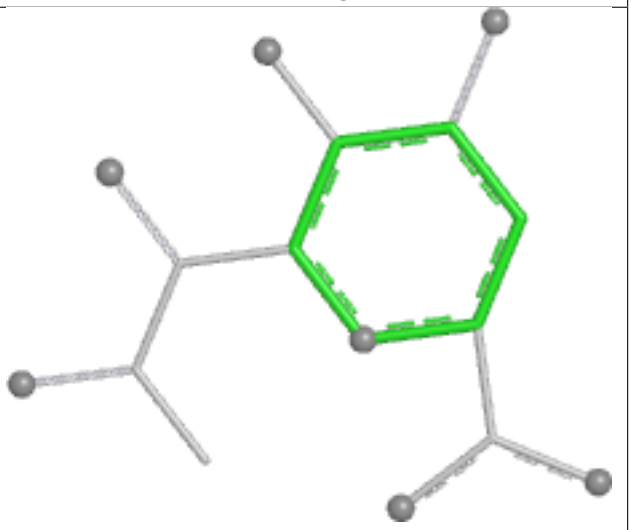
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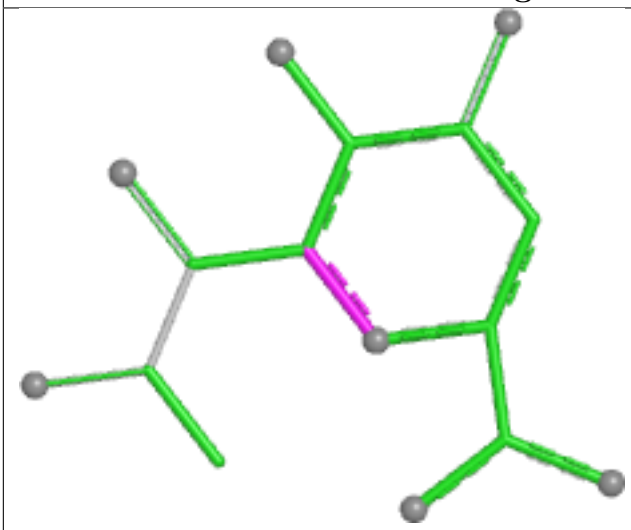


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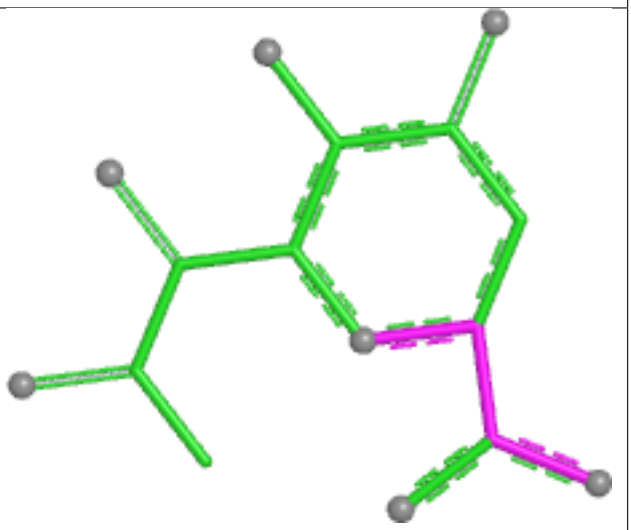


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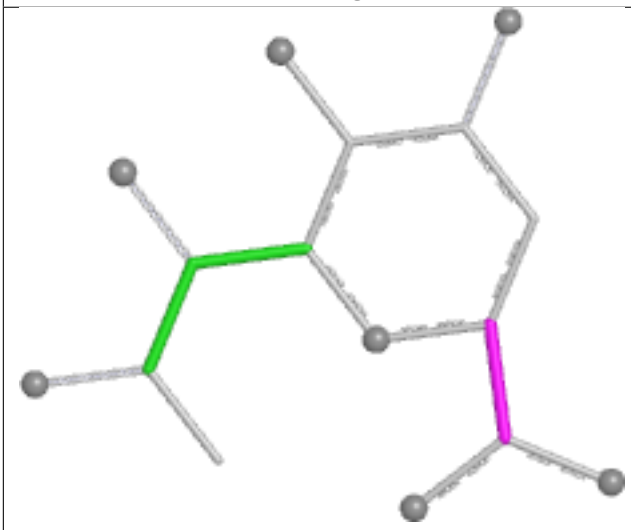
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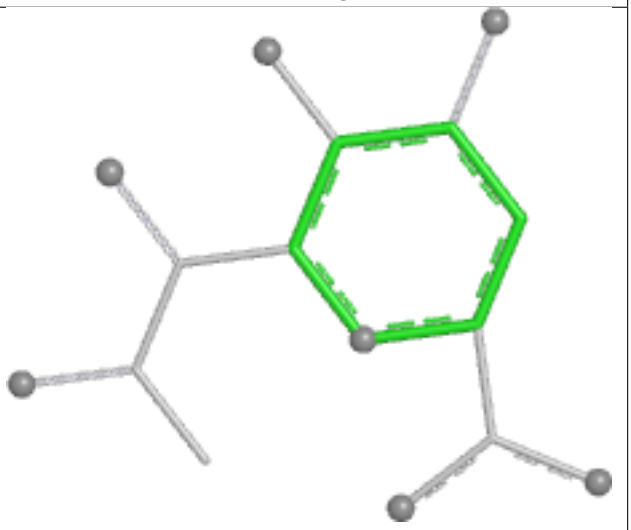
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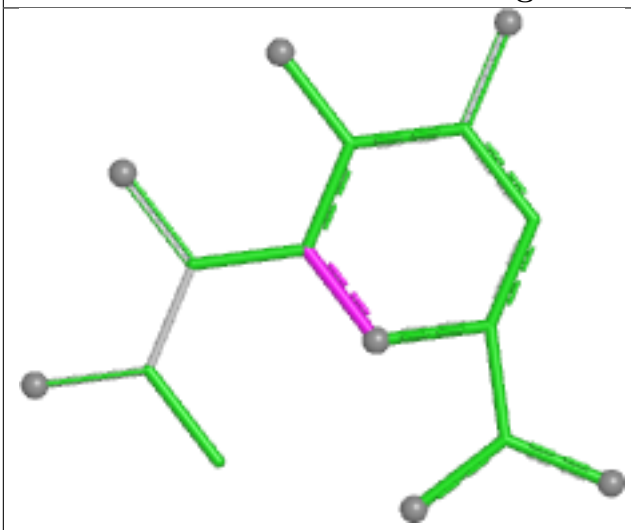


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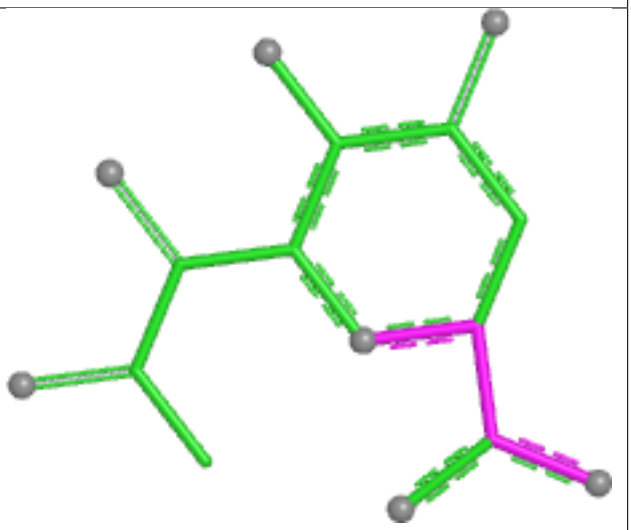


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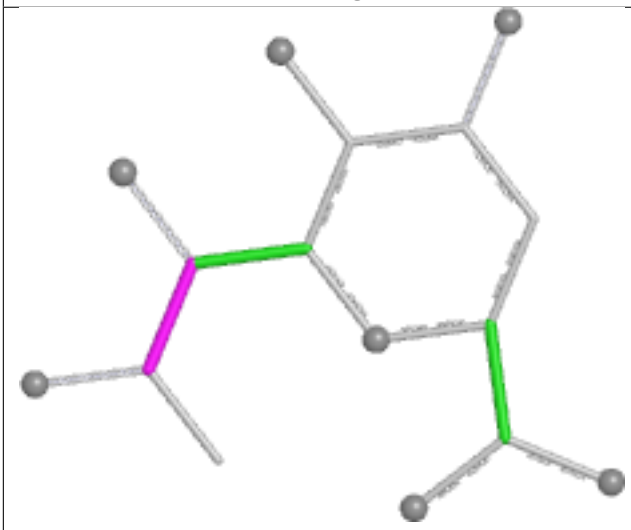
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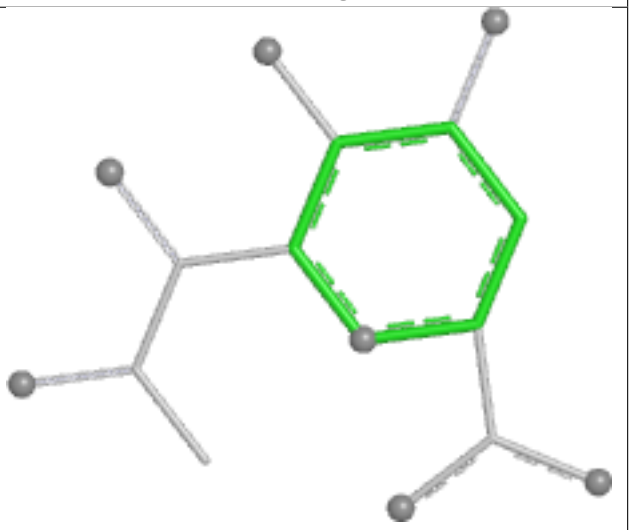
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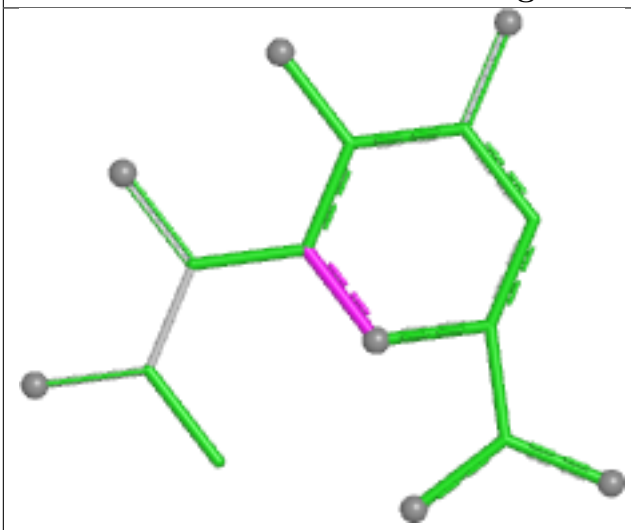


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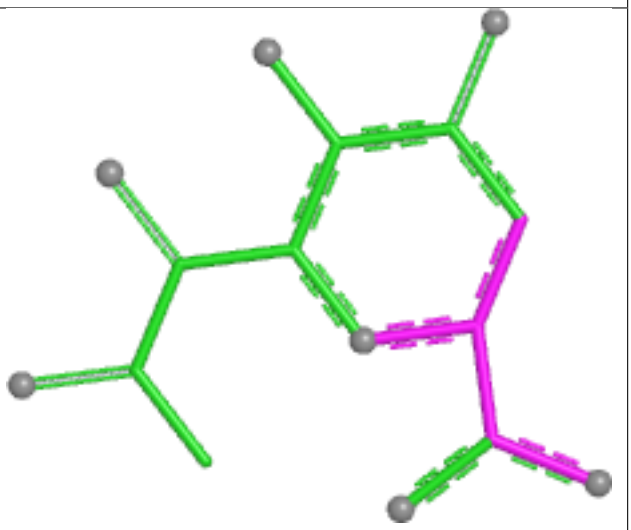


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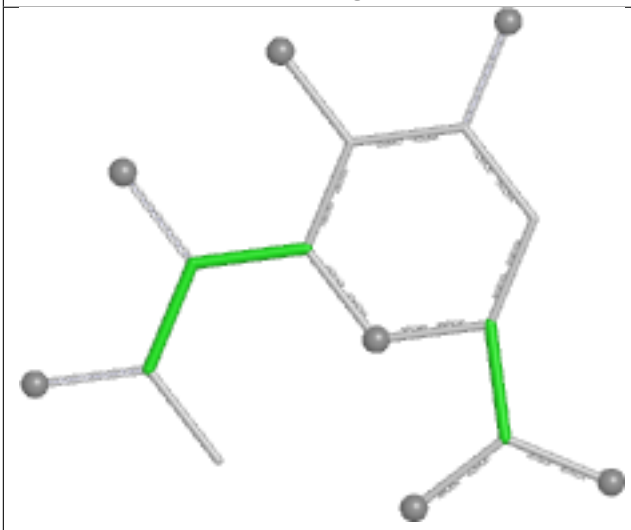
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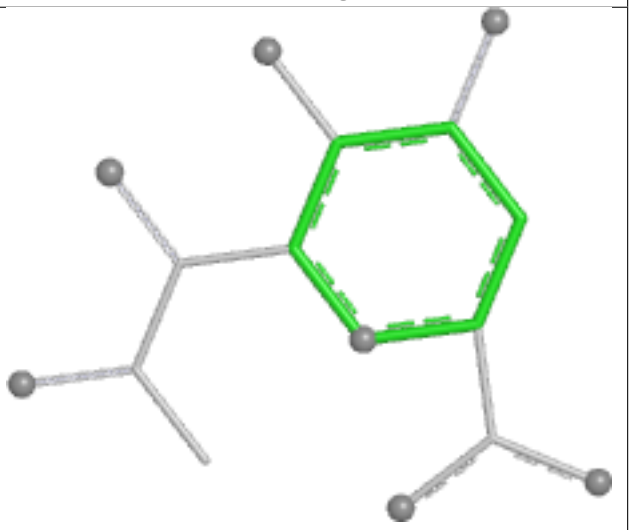
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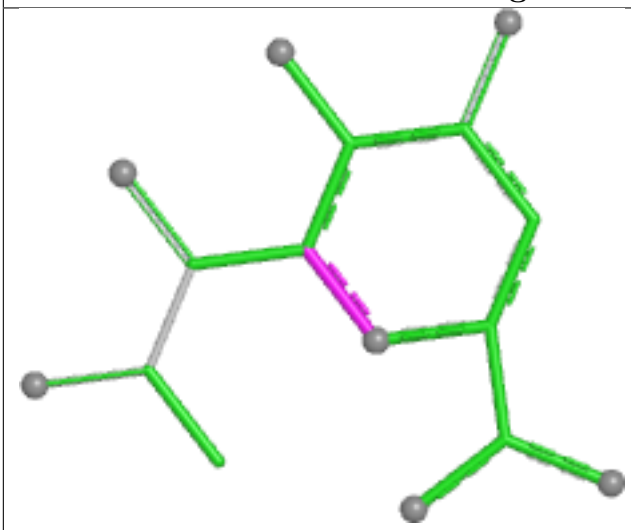


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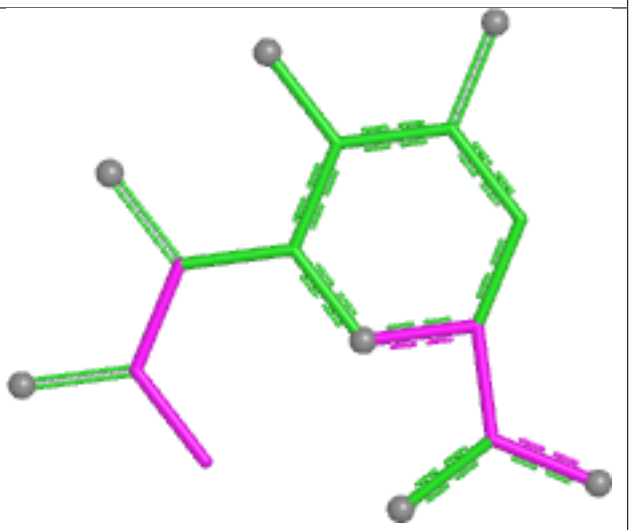


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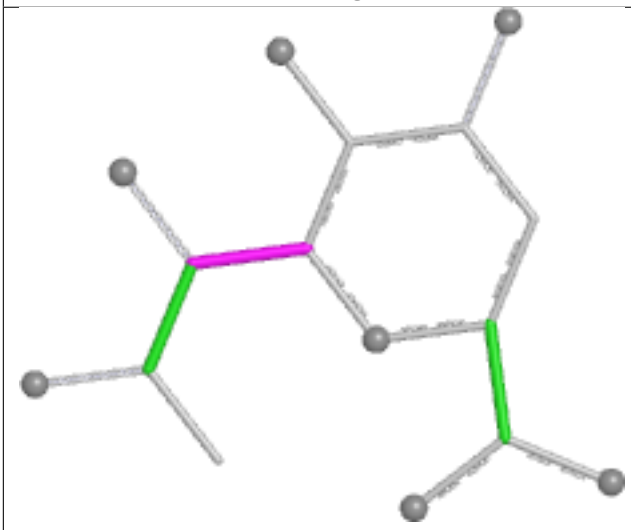
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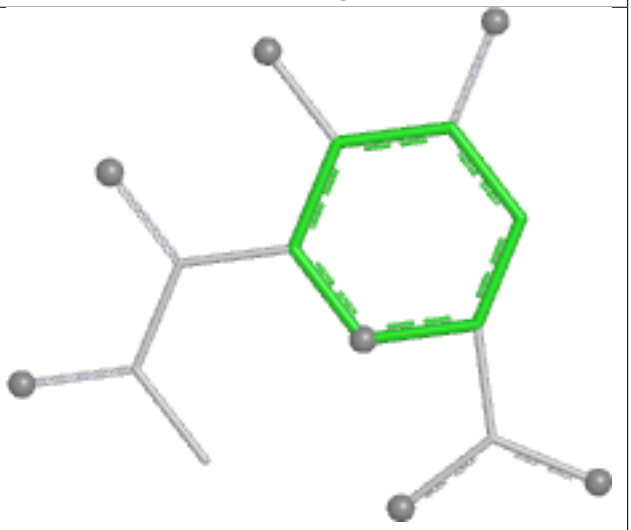
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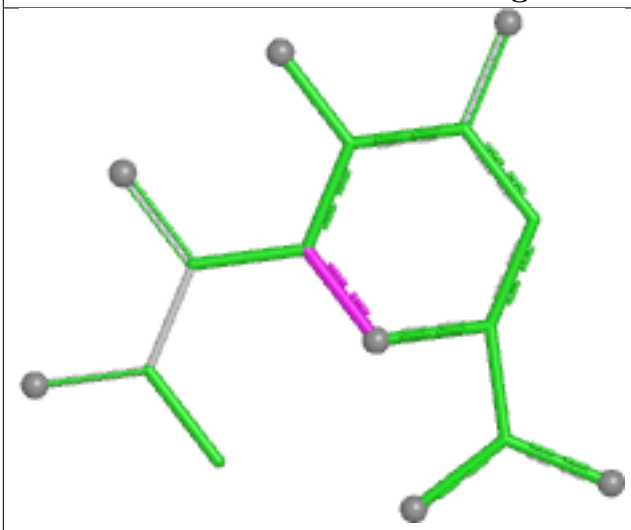


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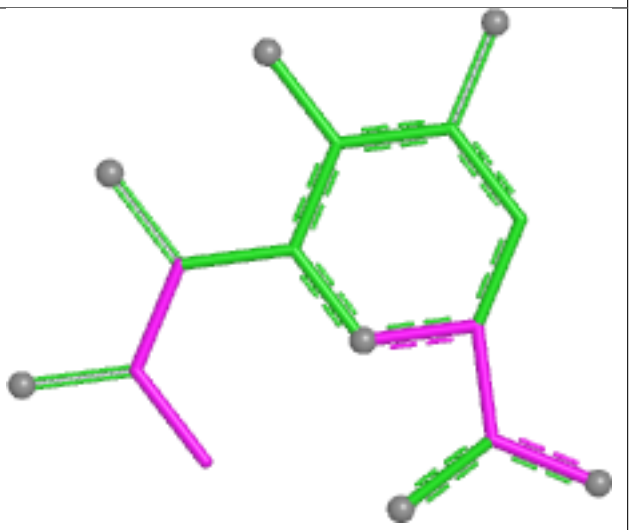


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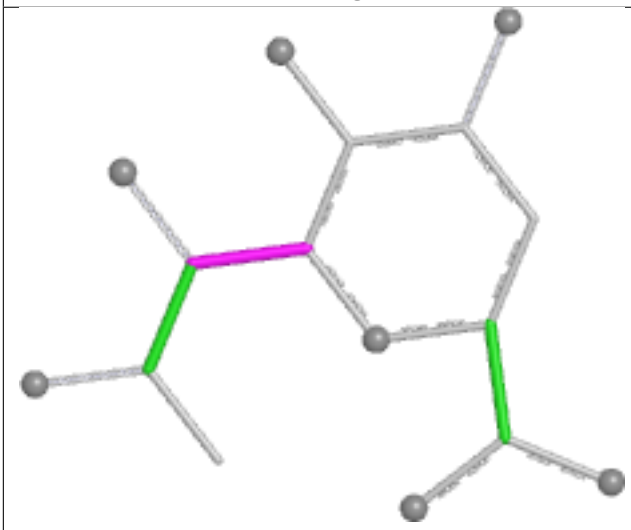
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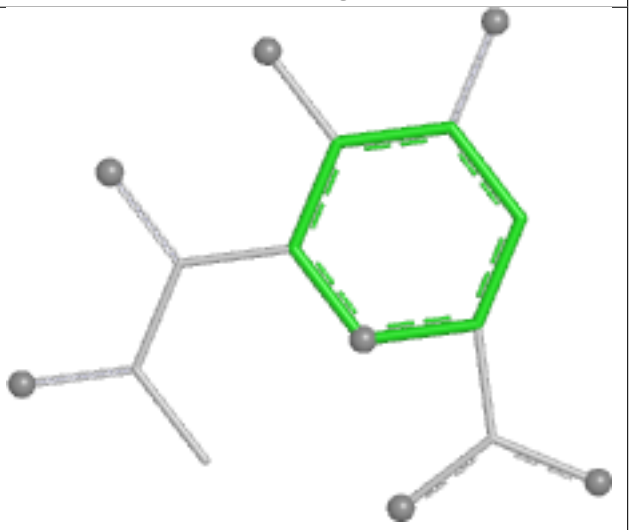
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Bond angles

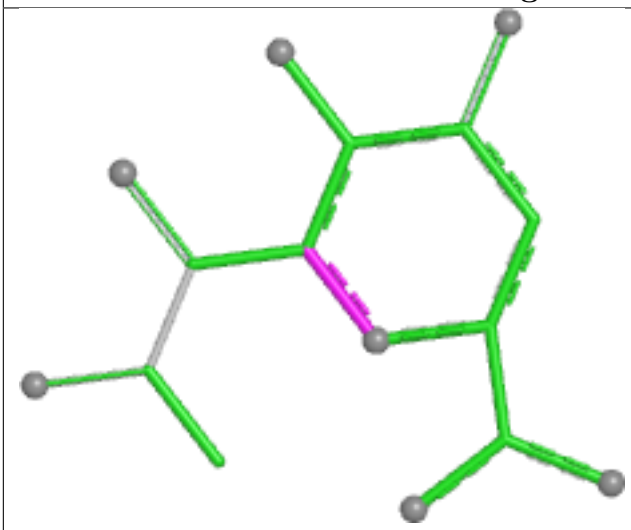


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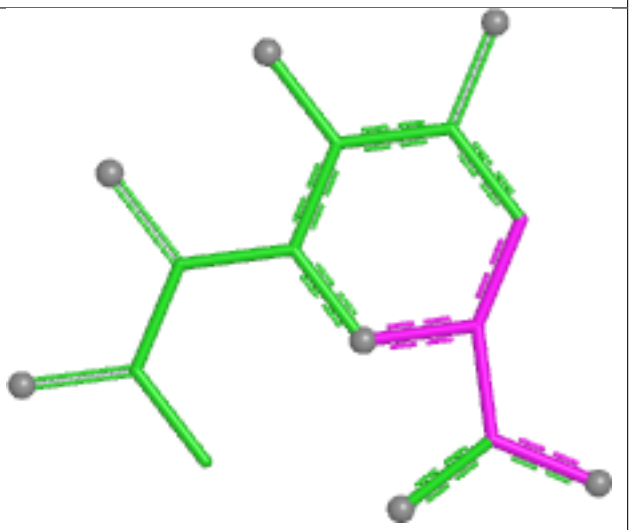


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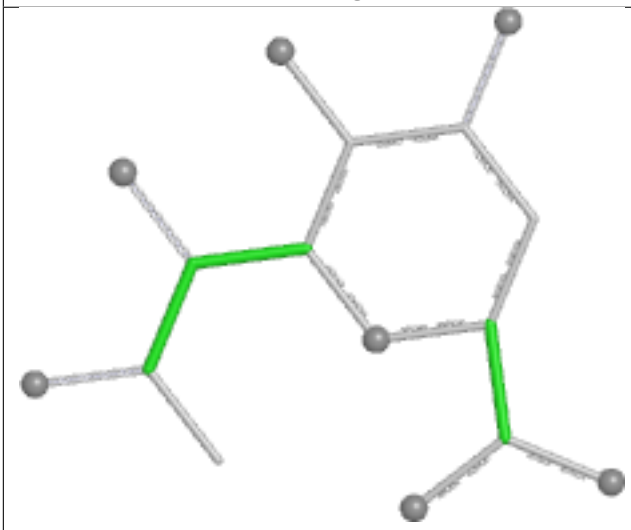
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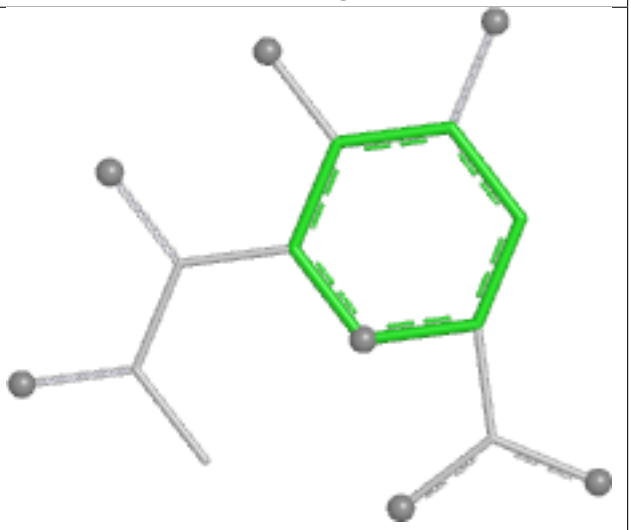
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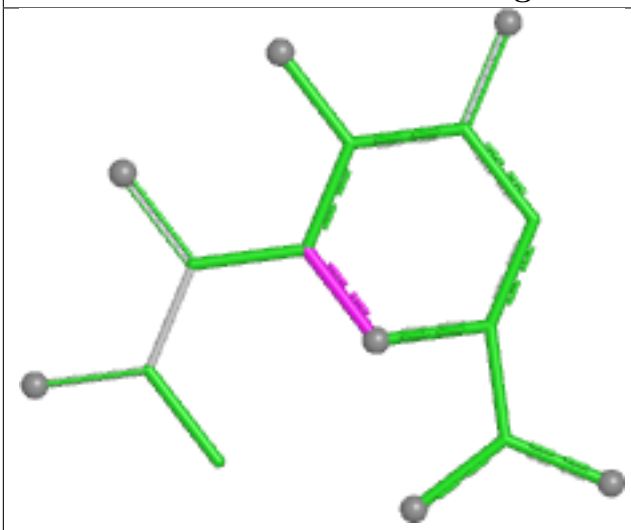


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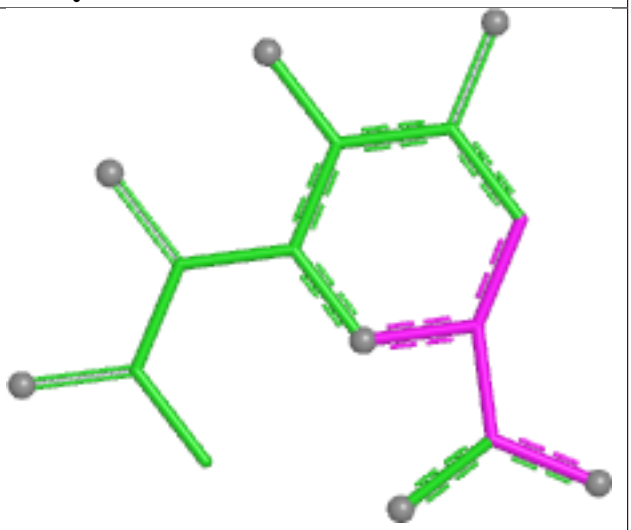


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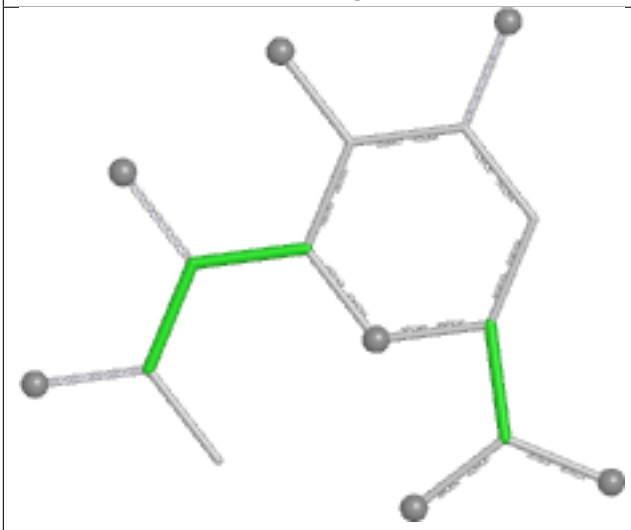
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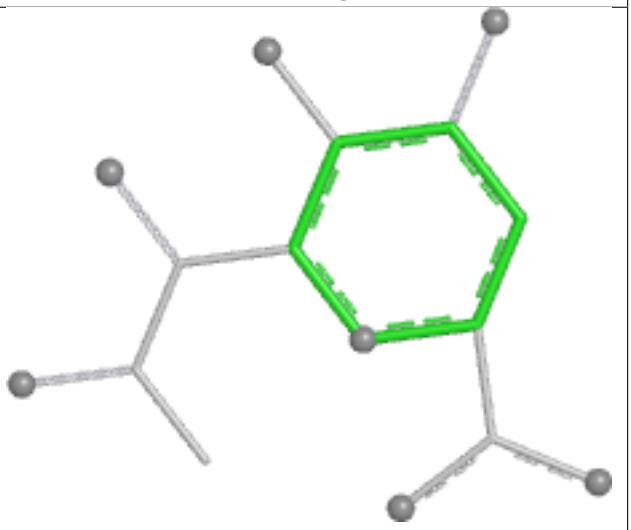
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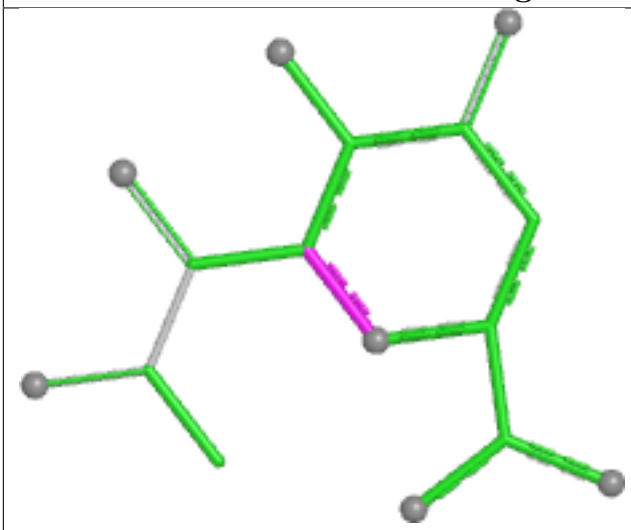


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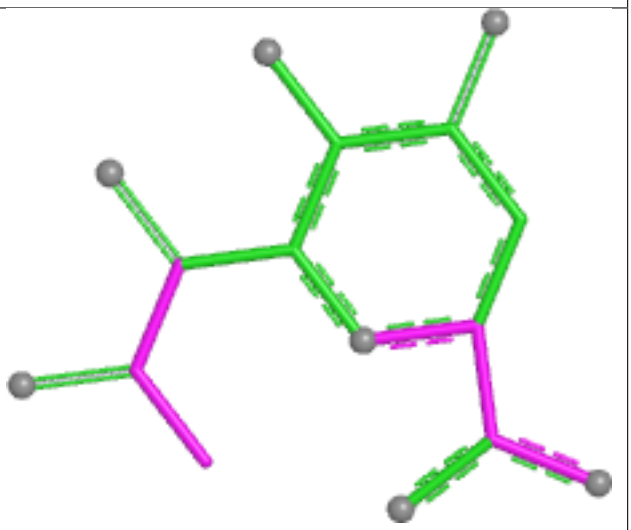


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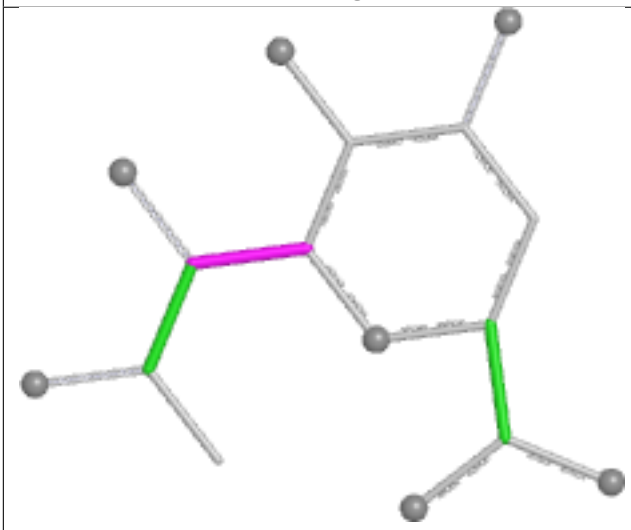
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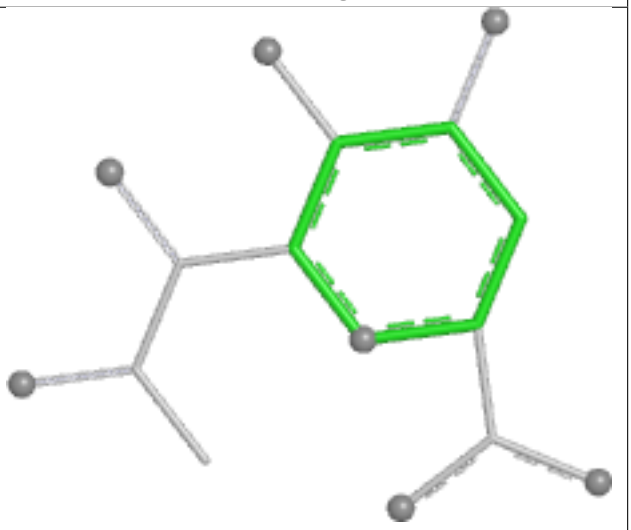
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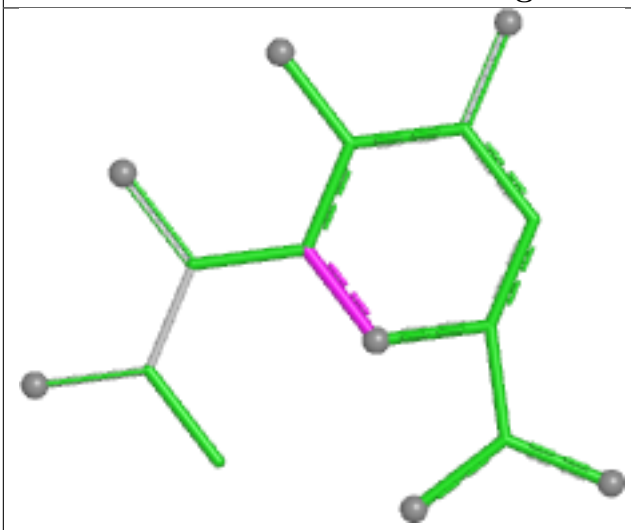


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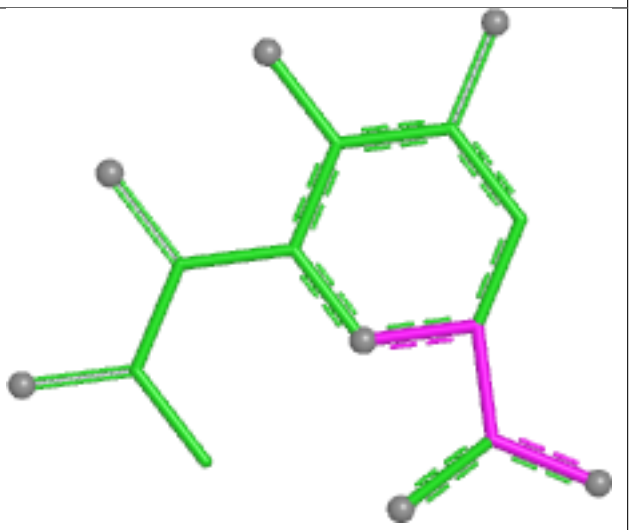


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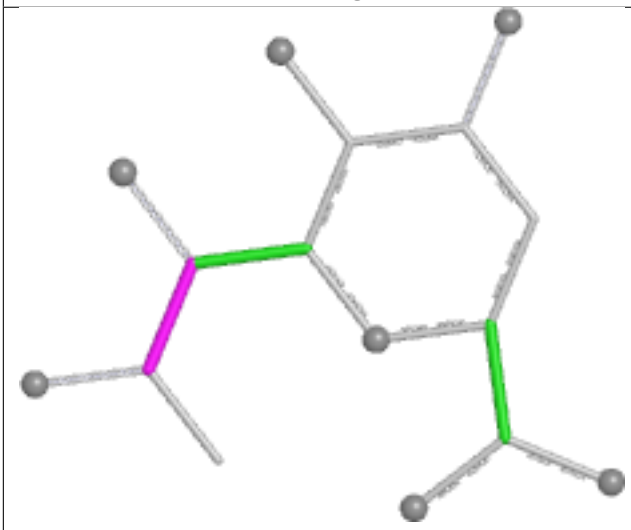
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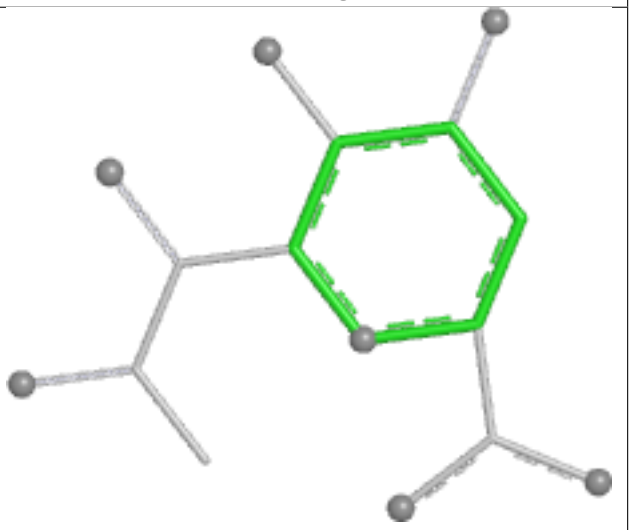
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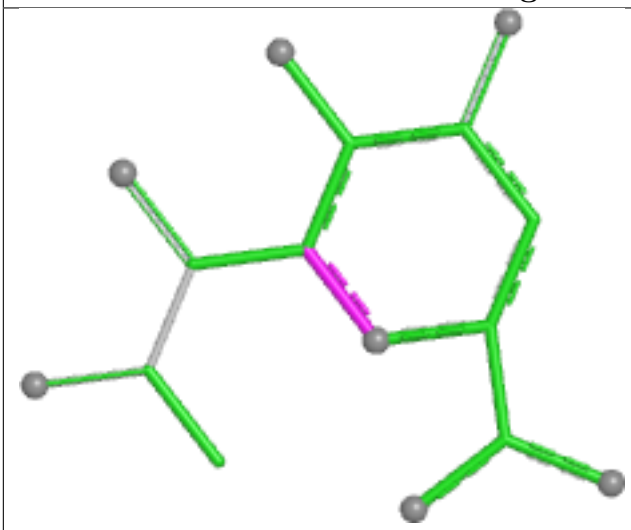


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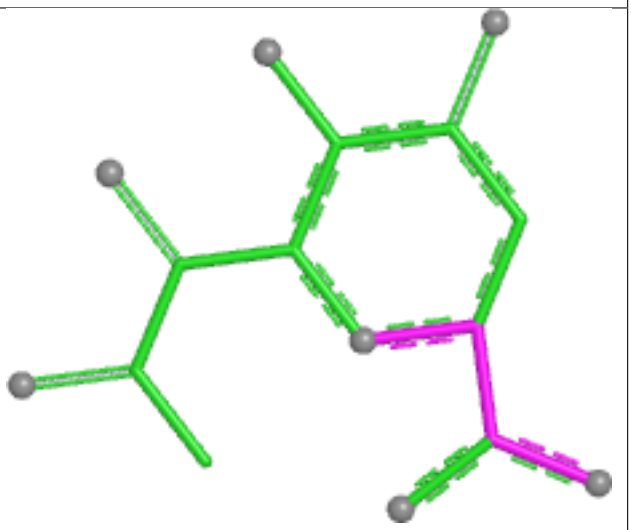


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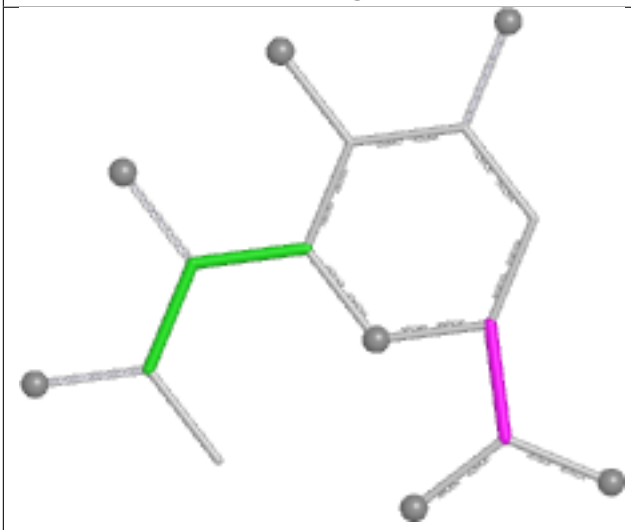
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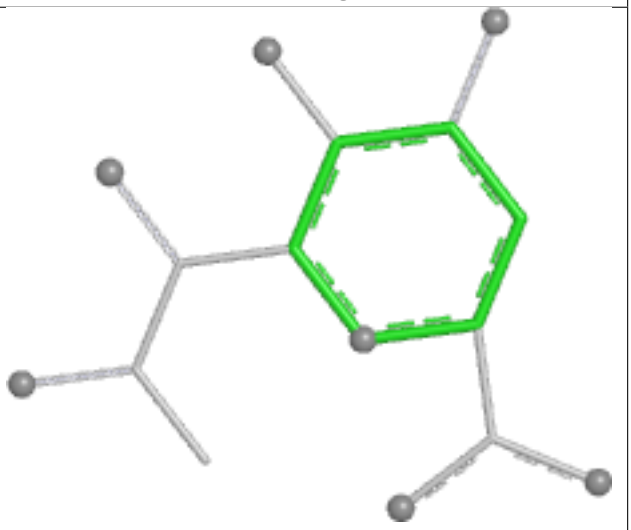
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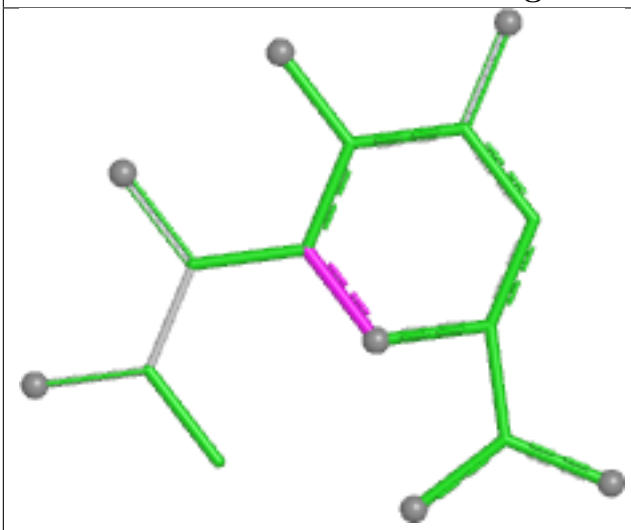


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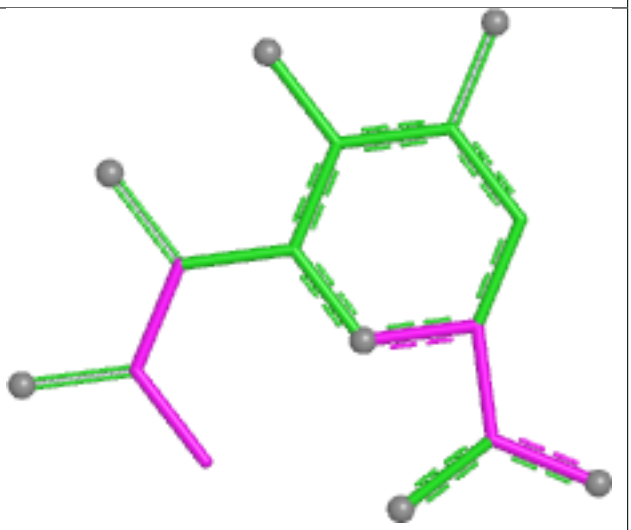


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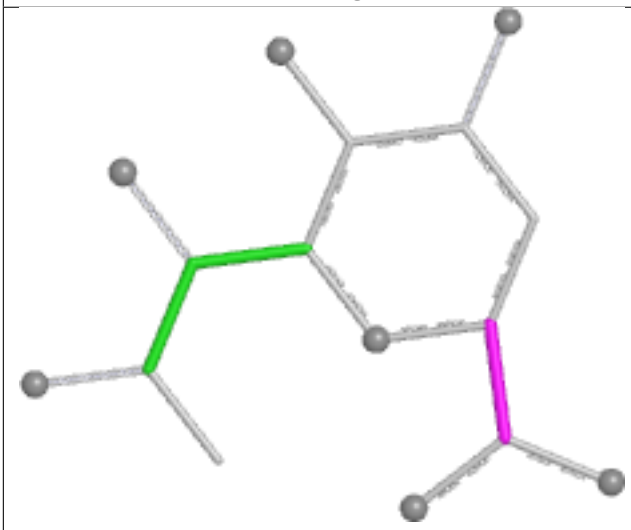
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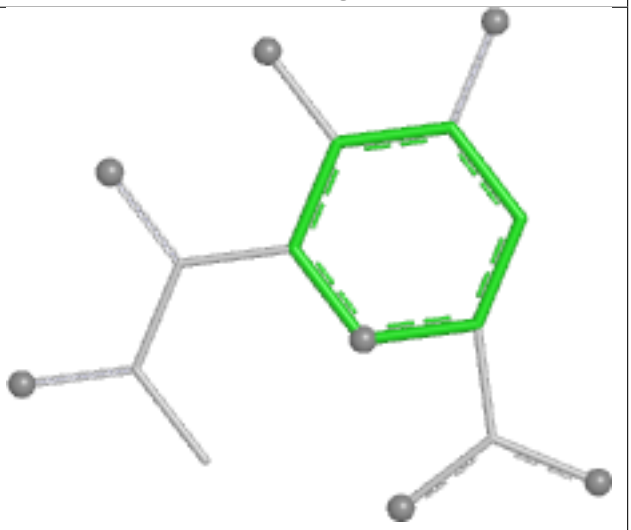
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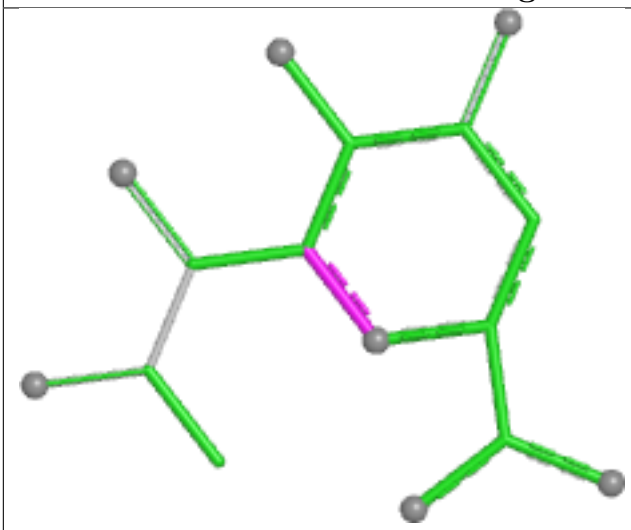


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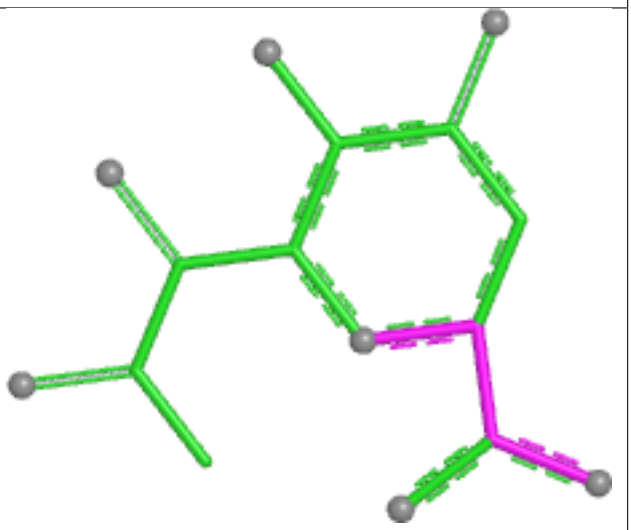


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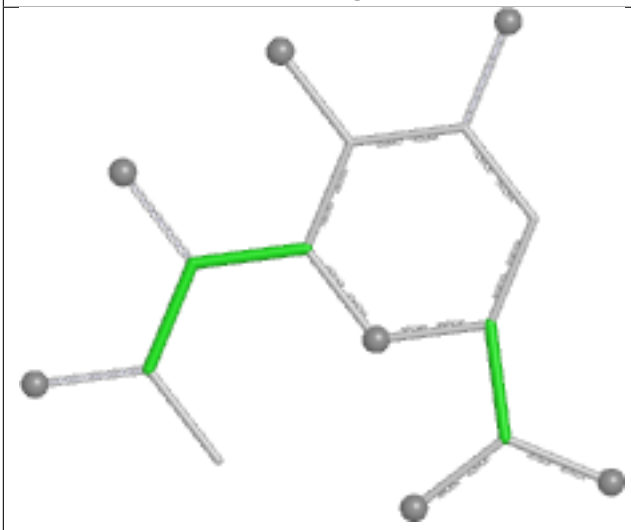
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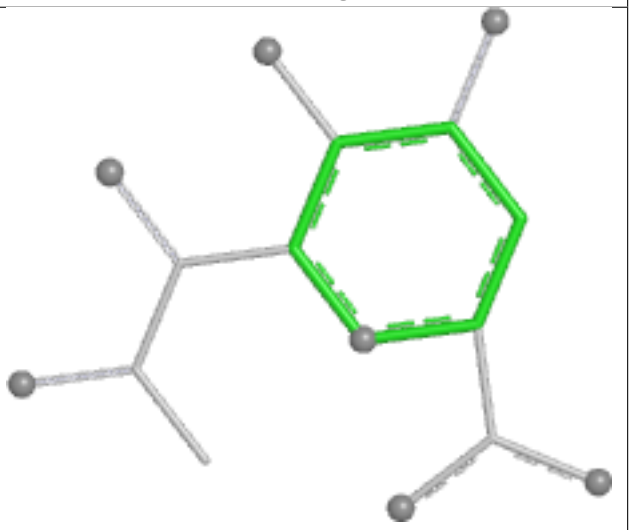
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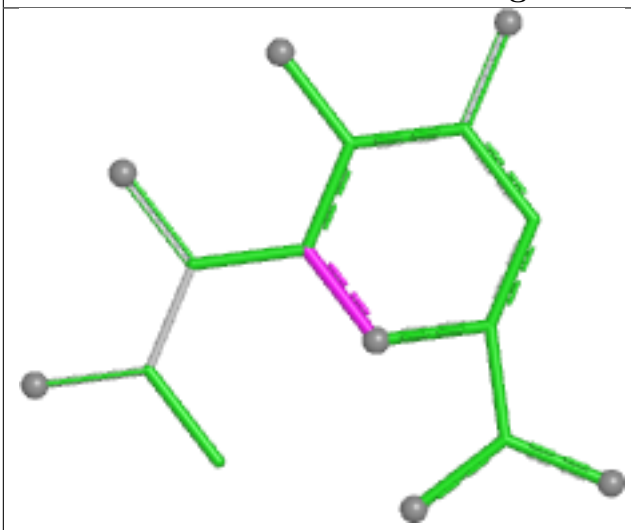


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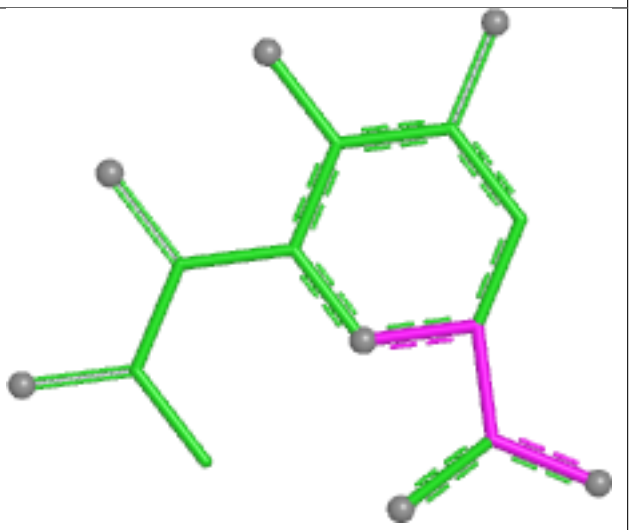


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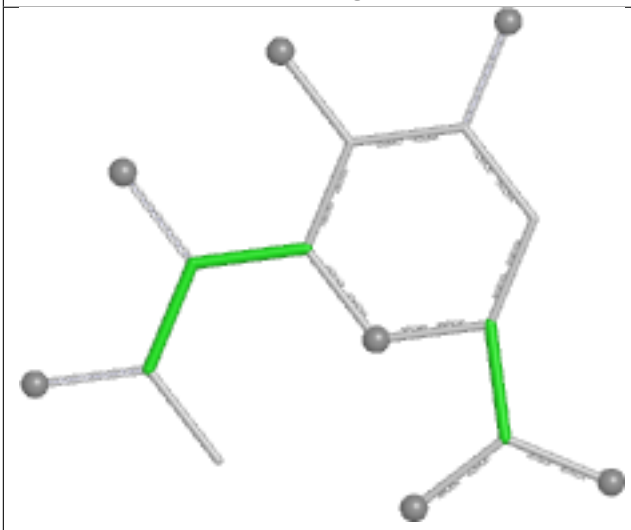
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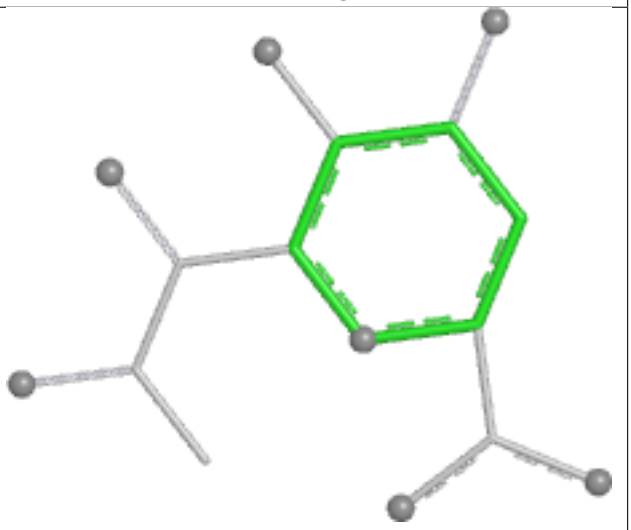
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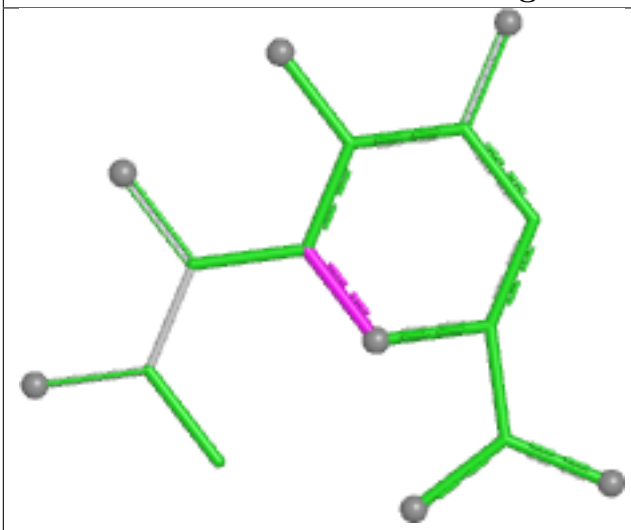


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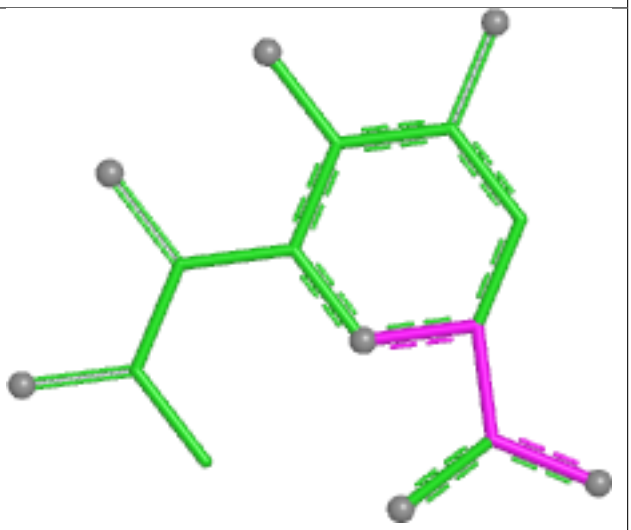


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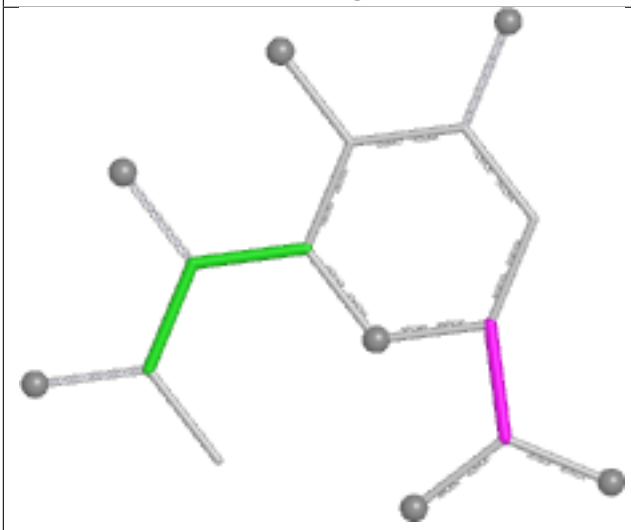
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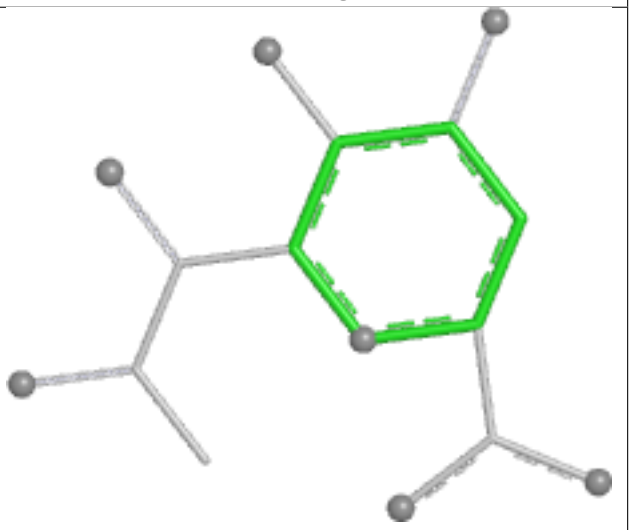
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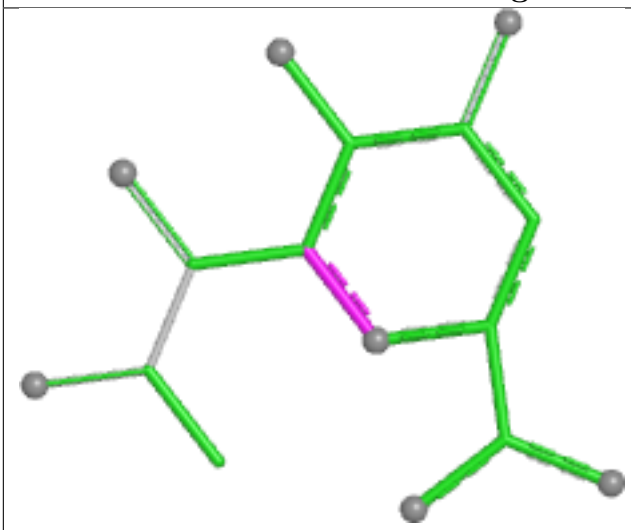


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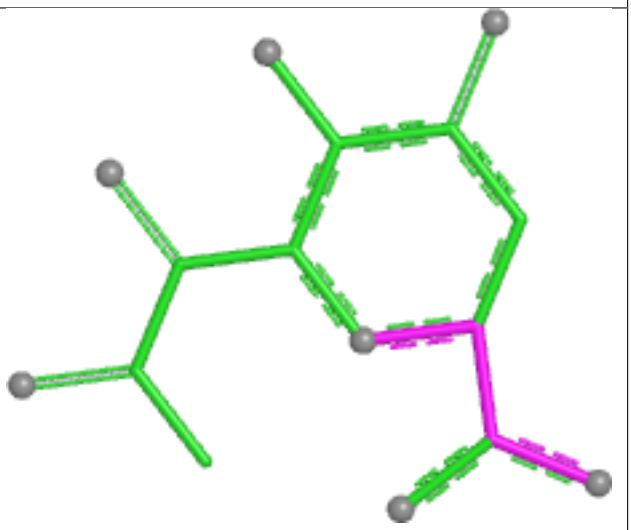


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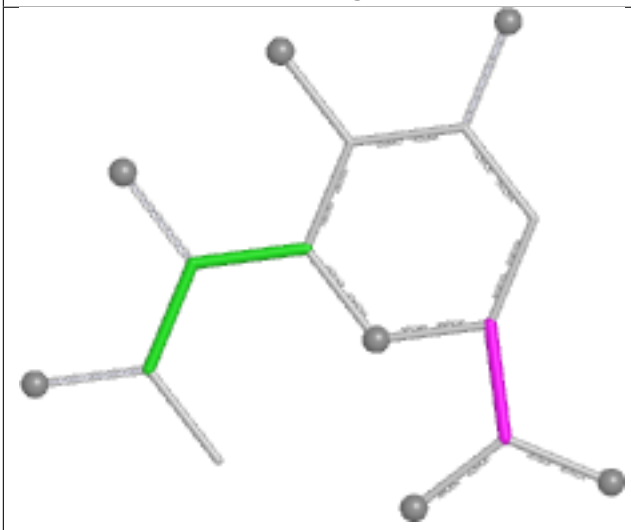
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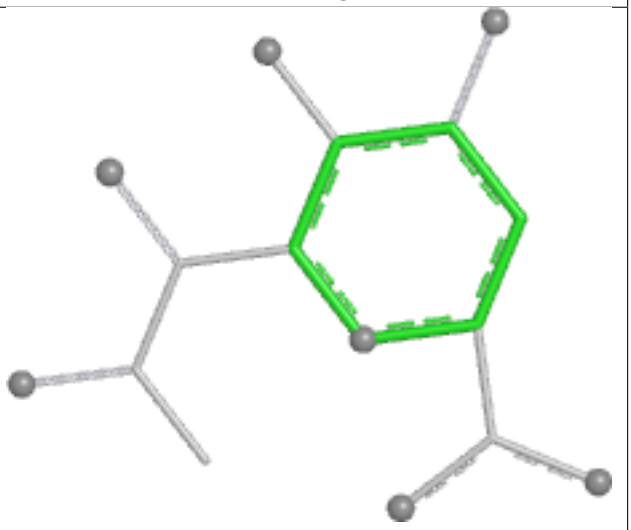
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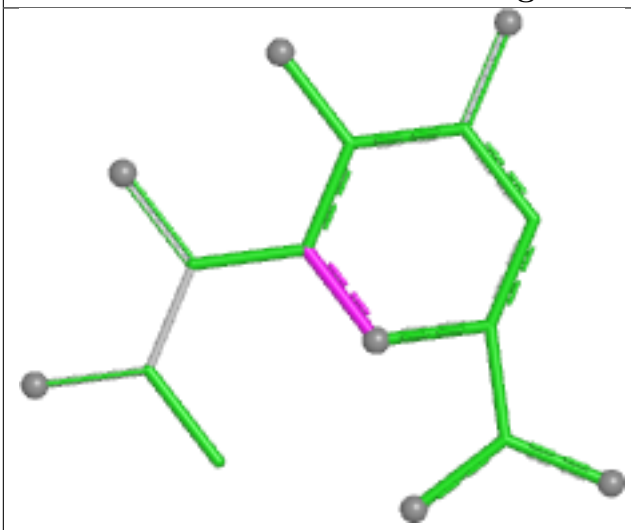


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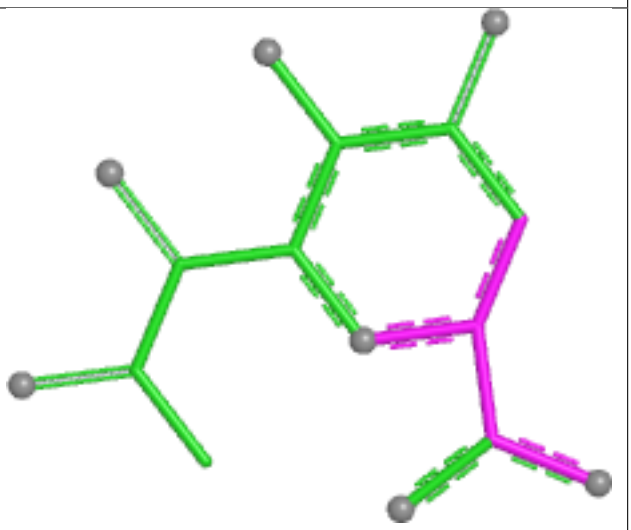


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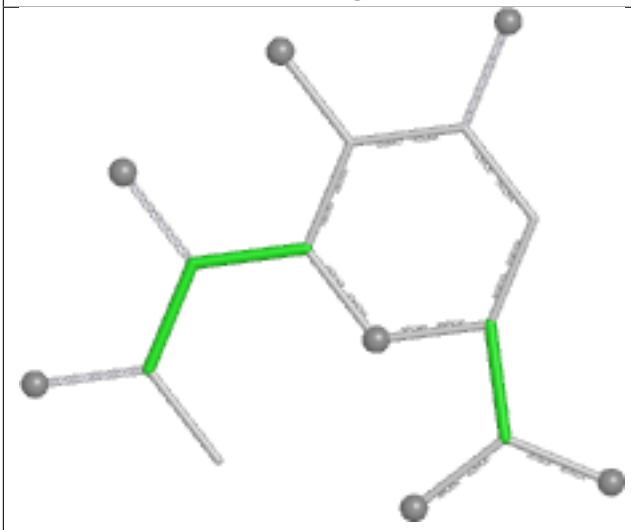
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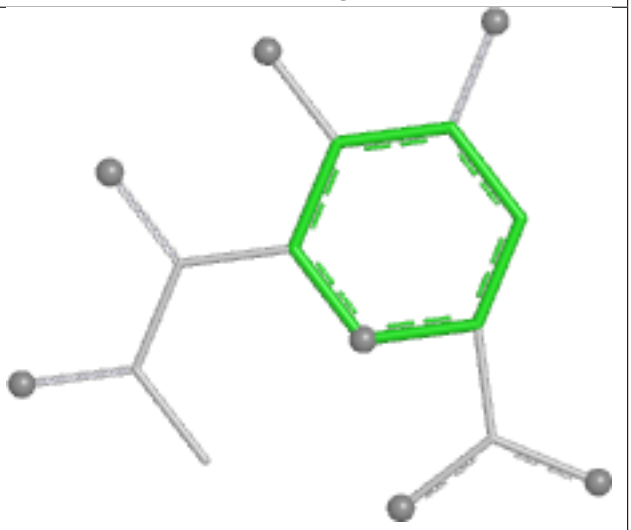
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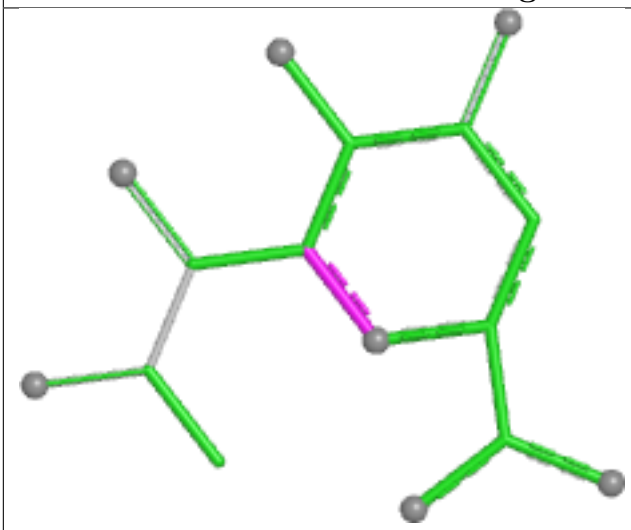


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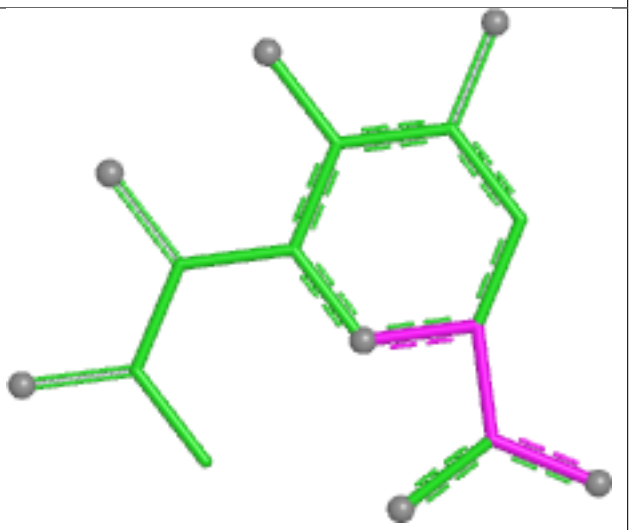


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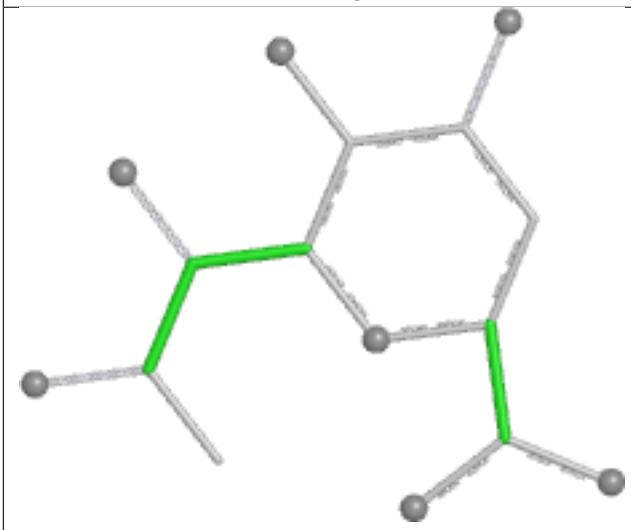
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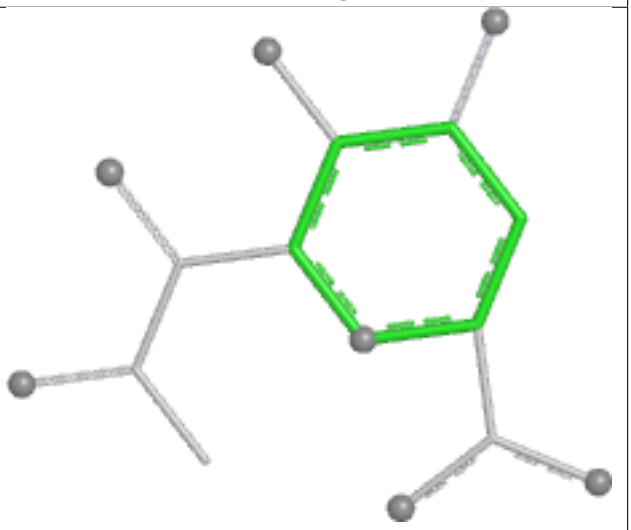
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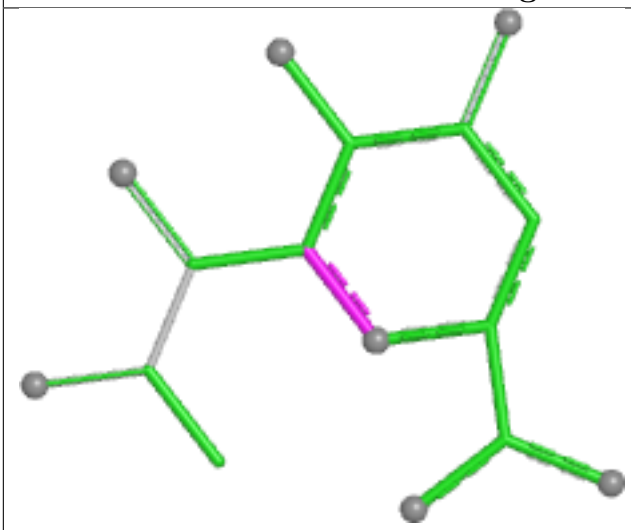


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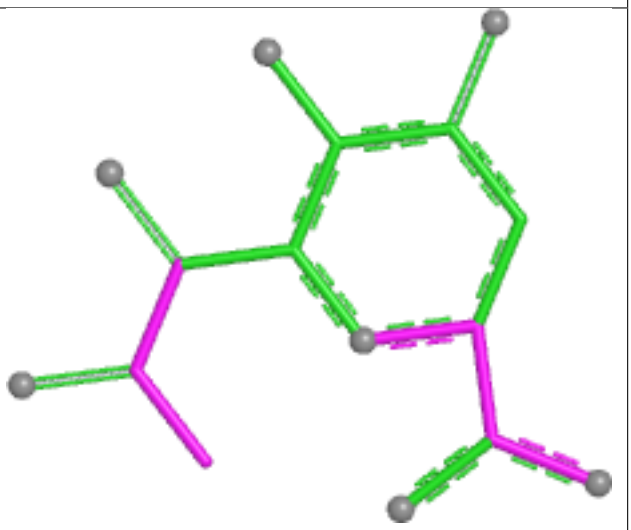


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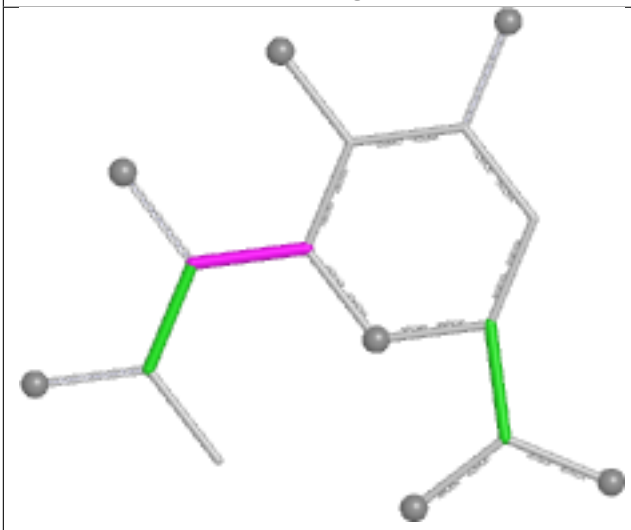
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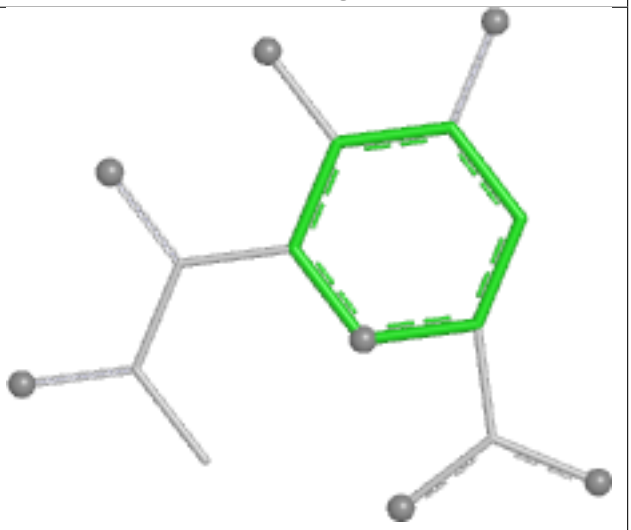
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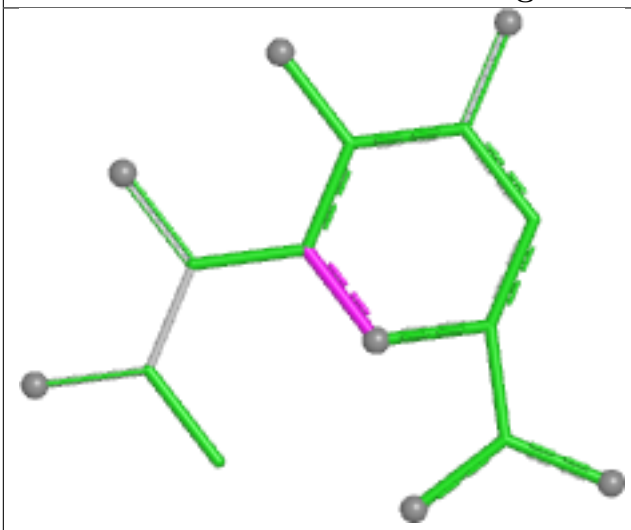


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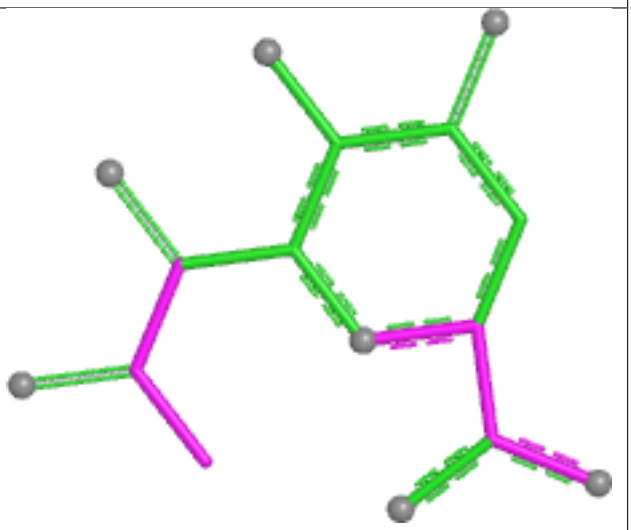


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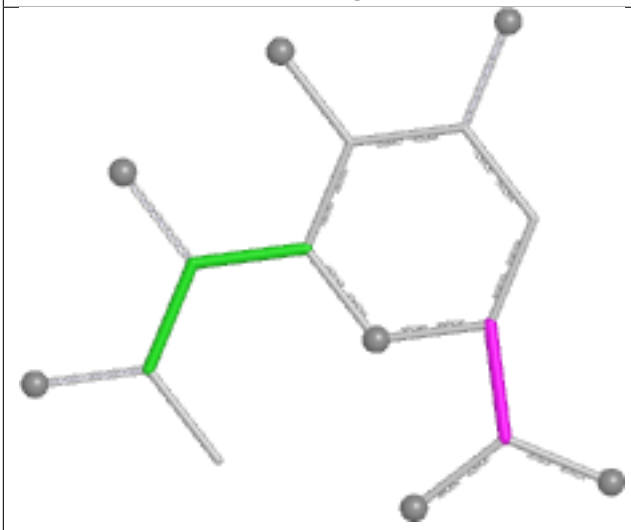
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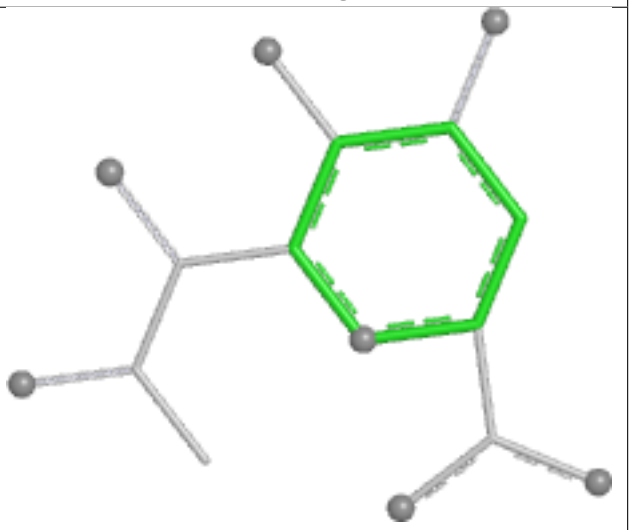
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Bond angles

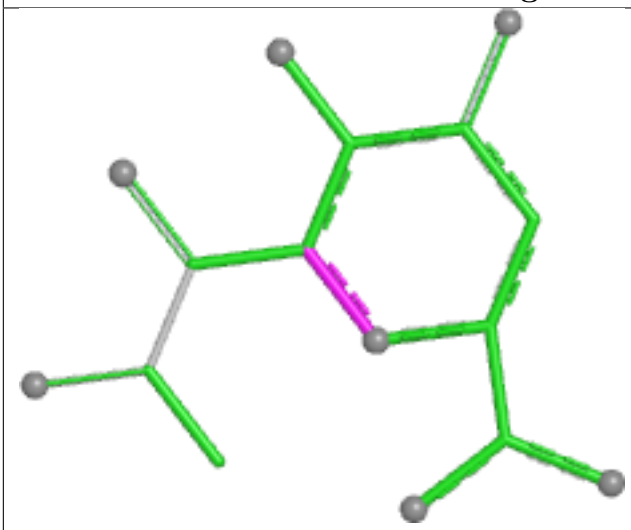


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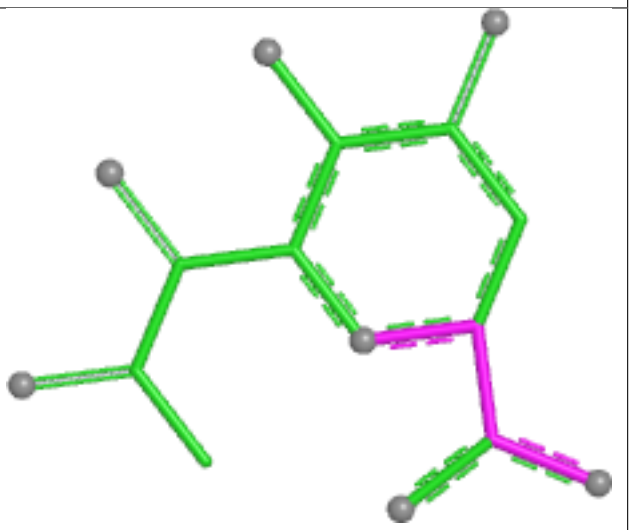


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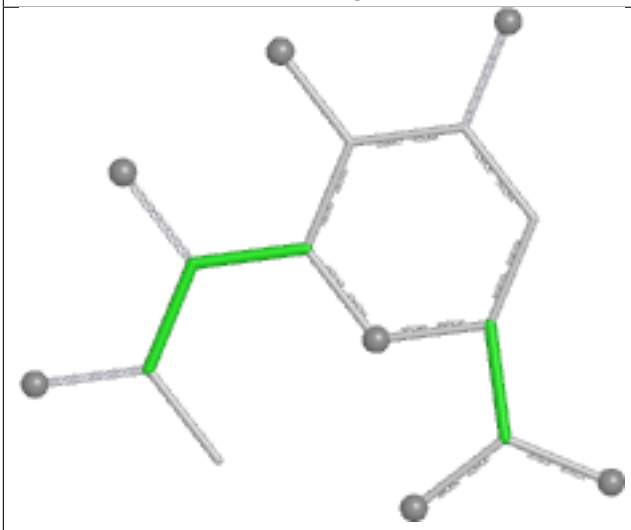
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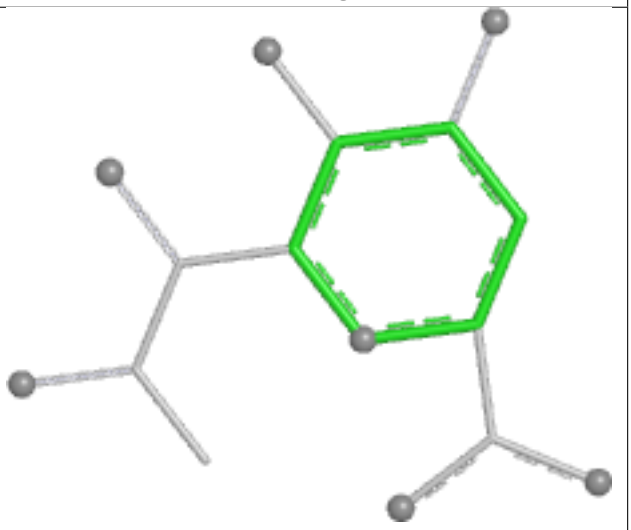
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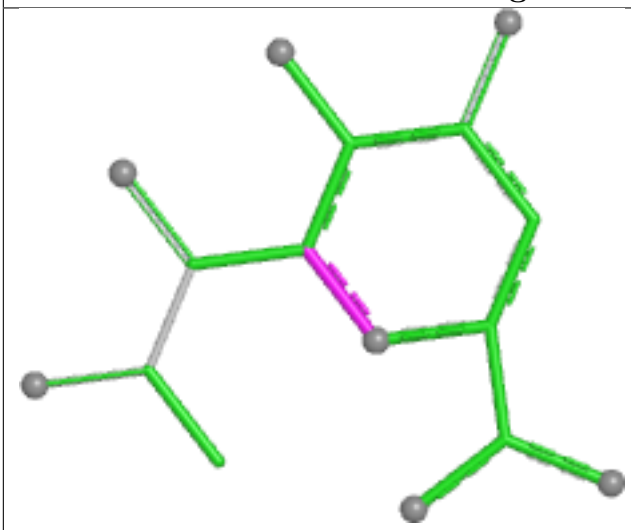


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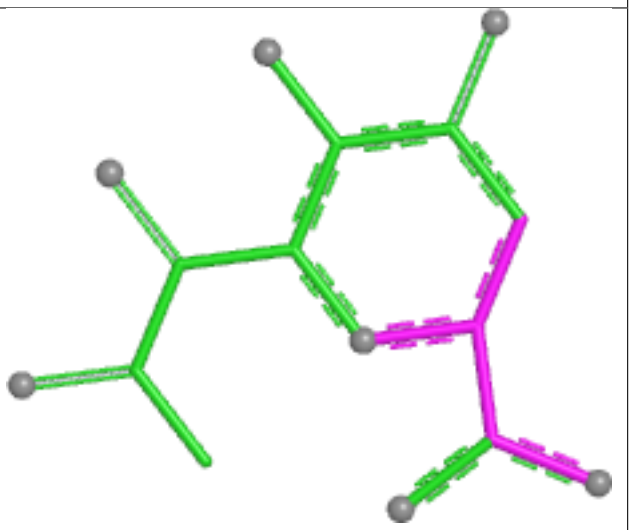


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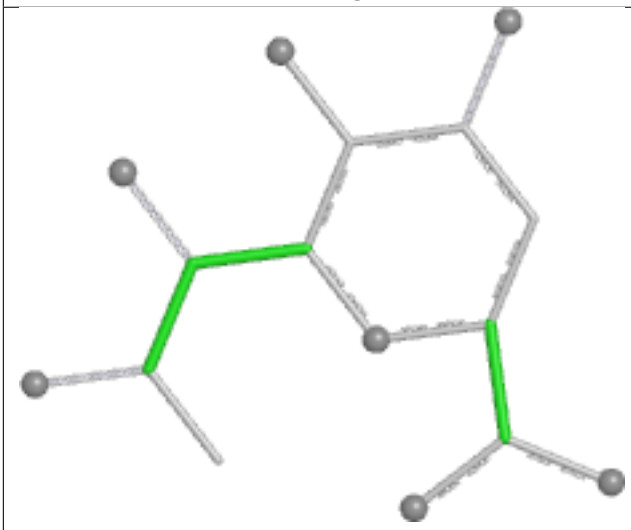
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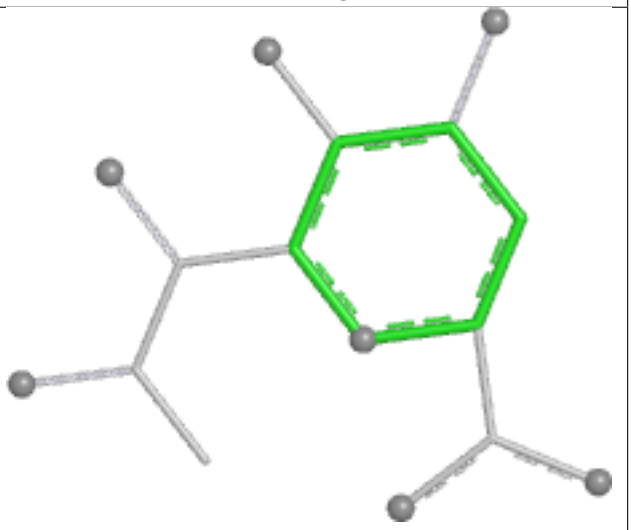
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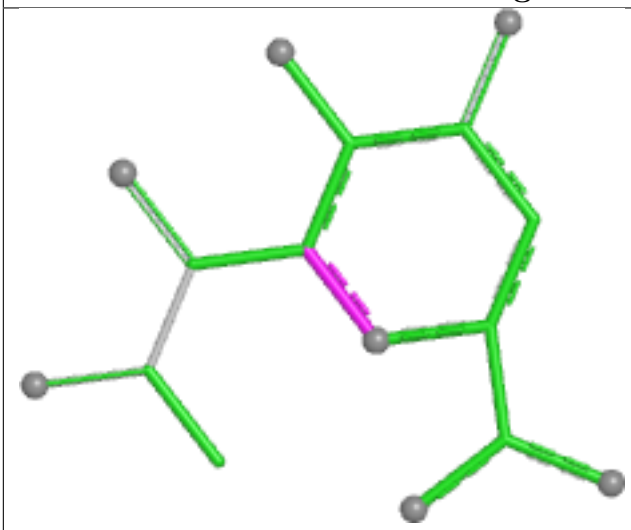


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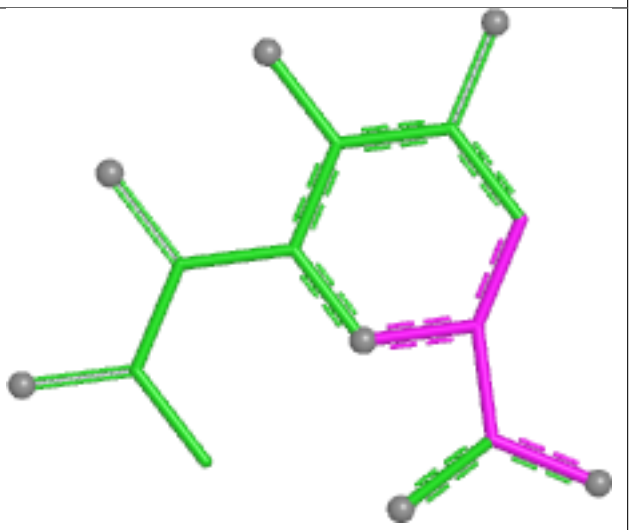


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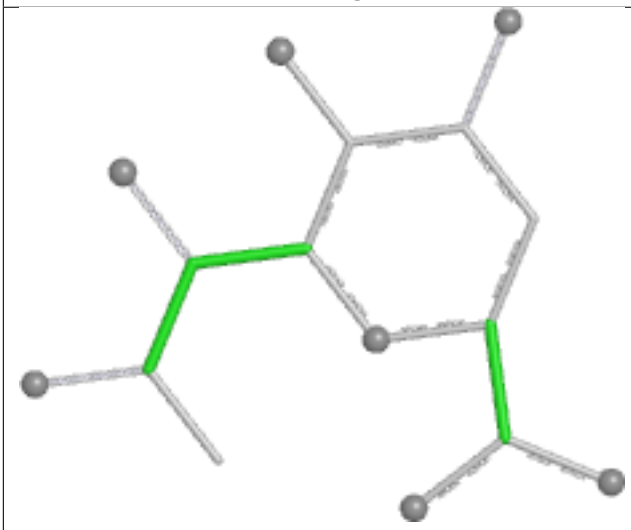
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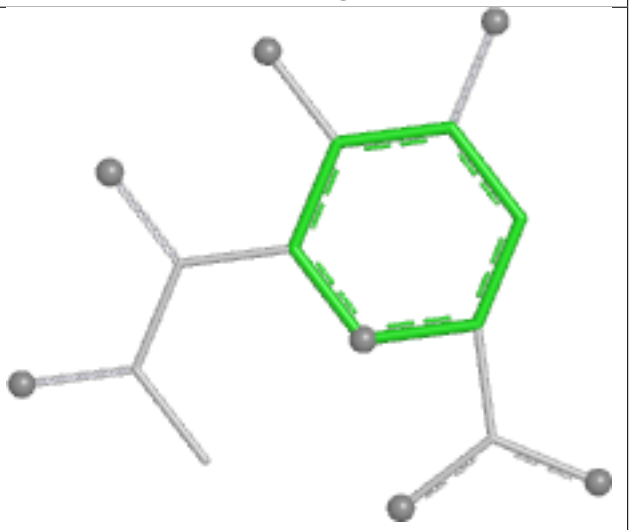
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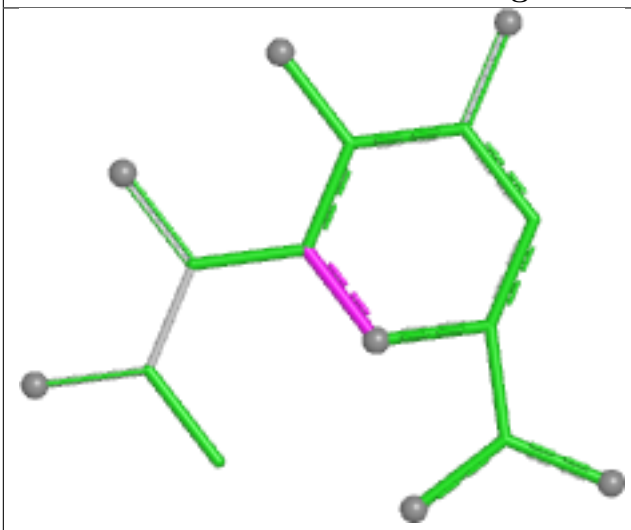


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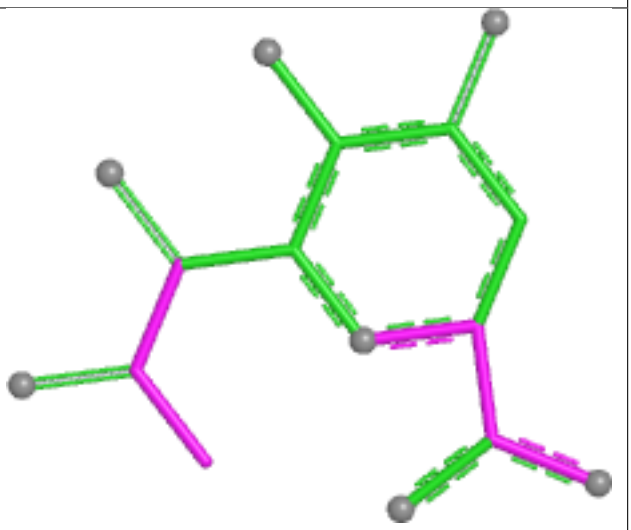


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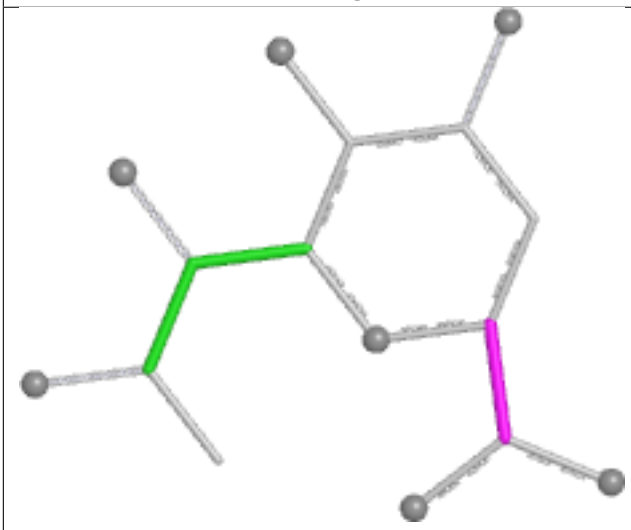
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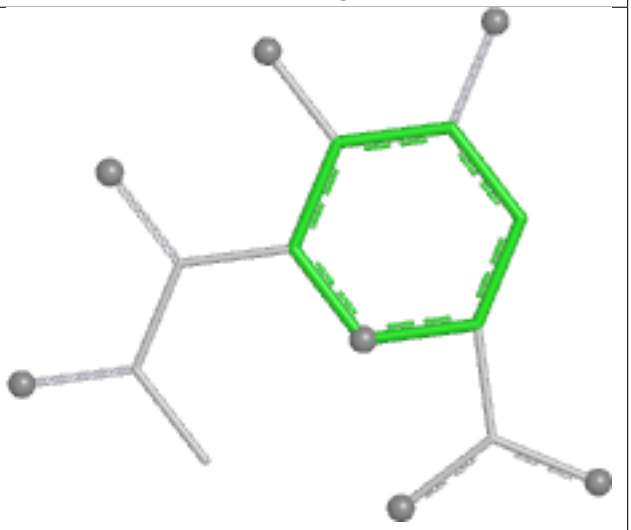
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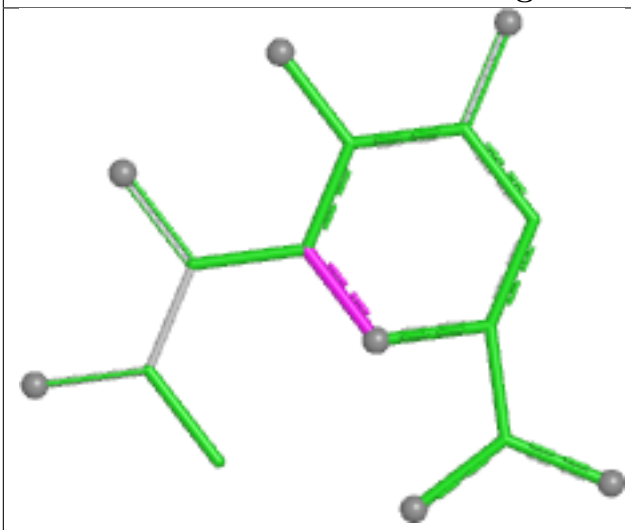


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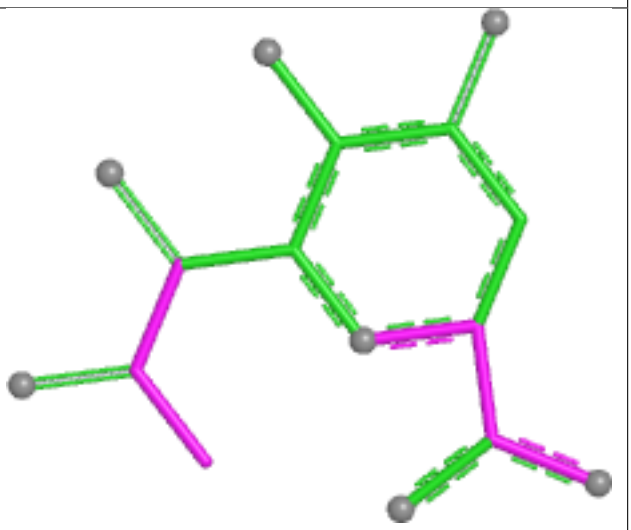


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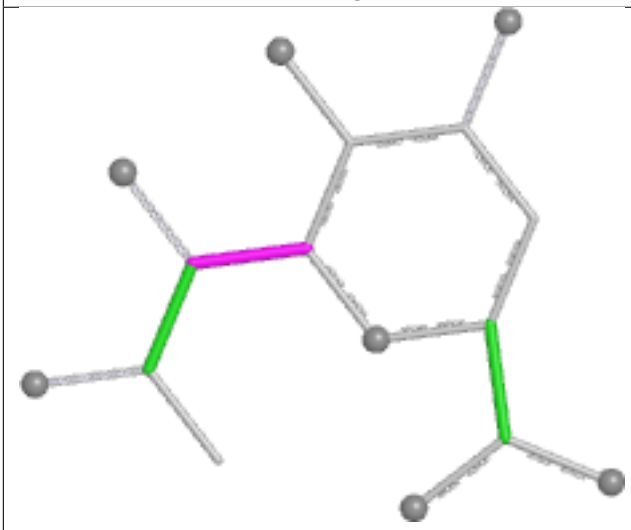
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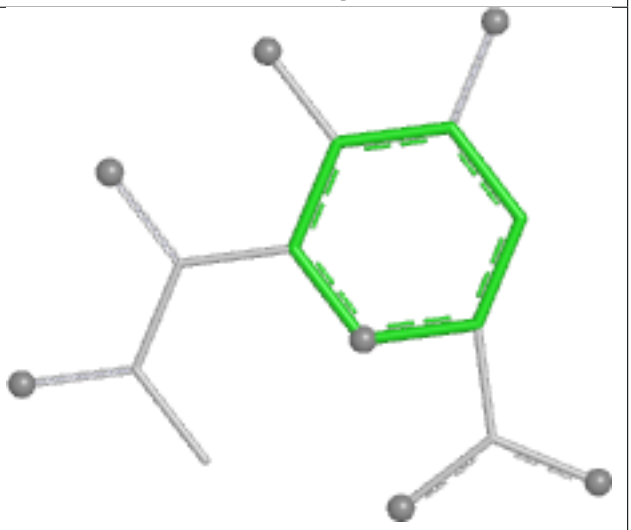
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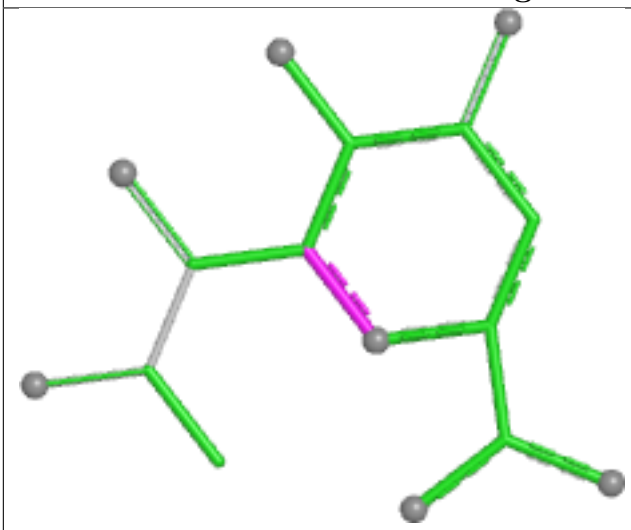


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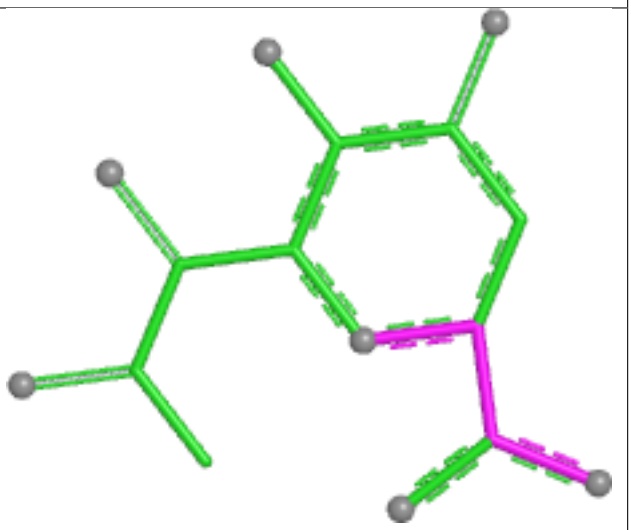


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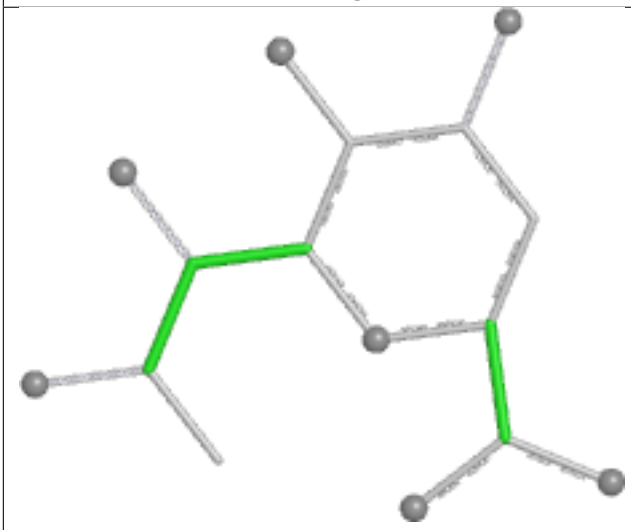
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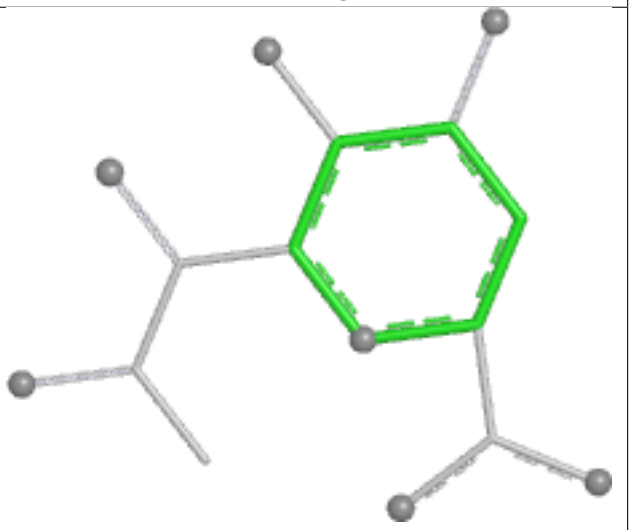
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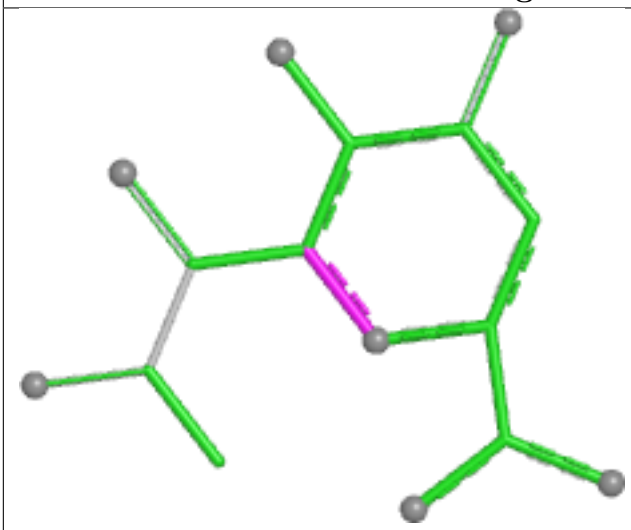


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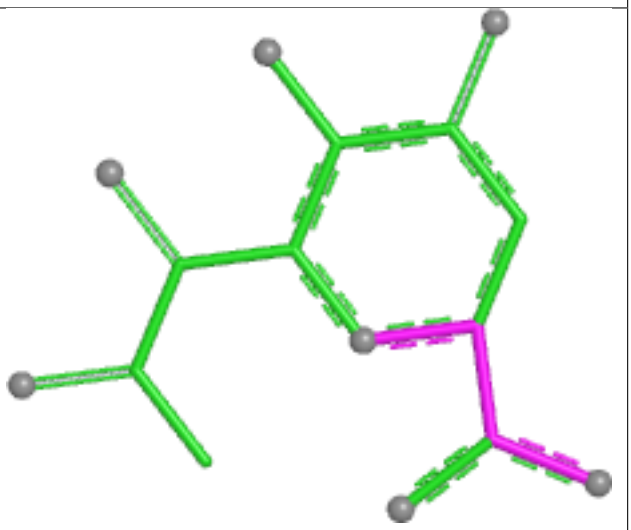


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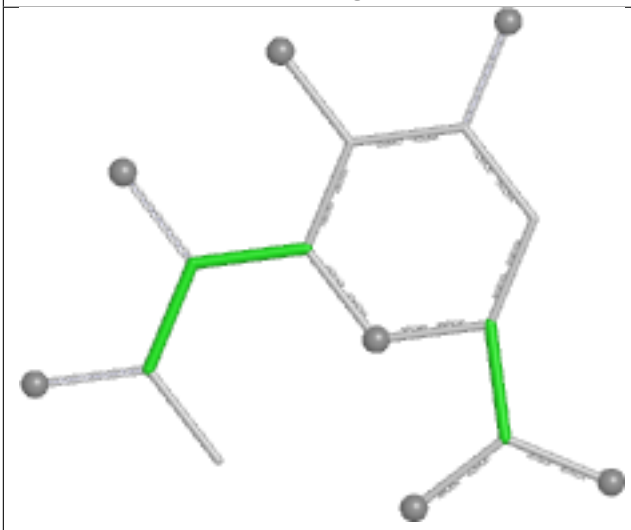
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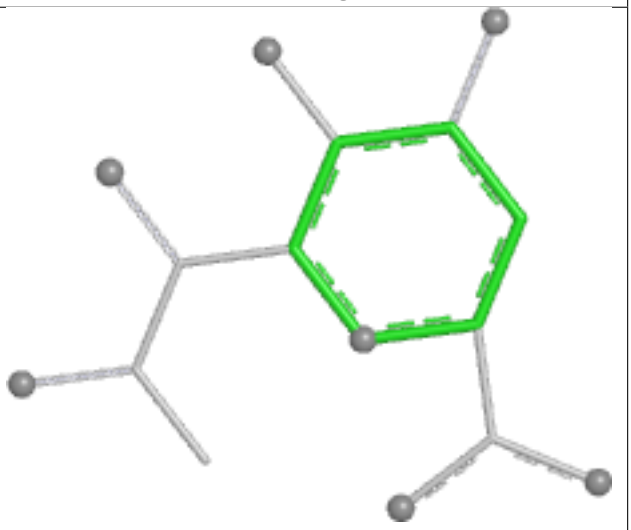
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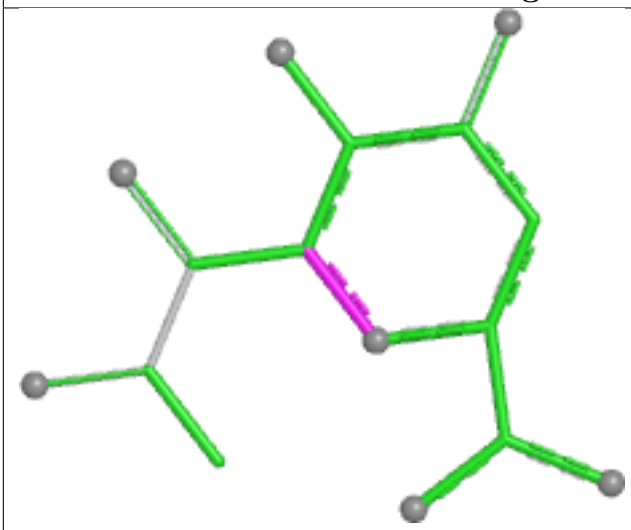


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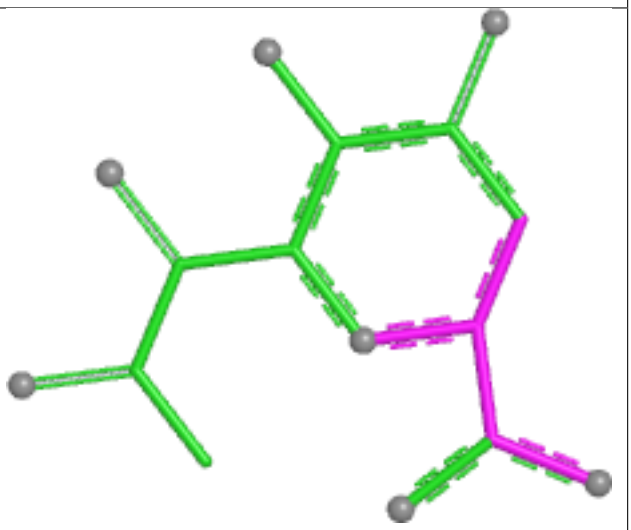


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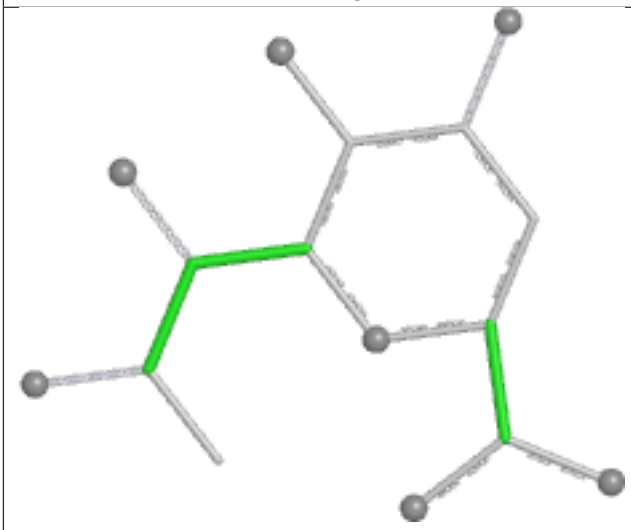
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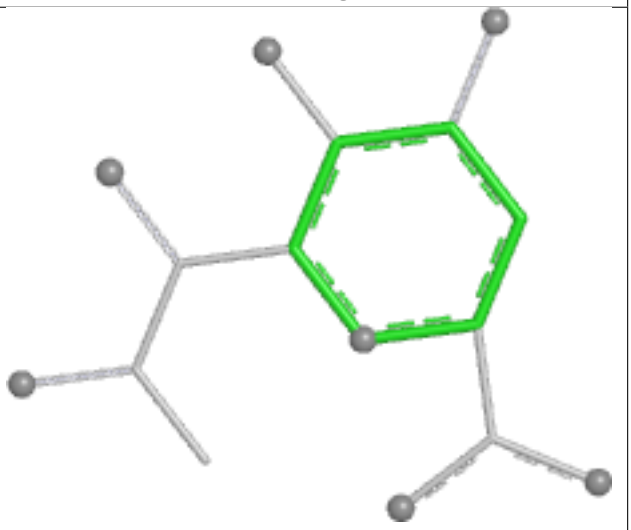
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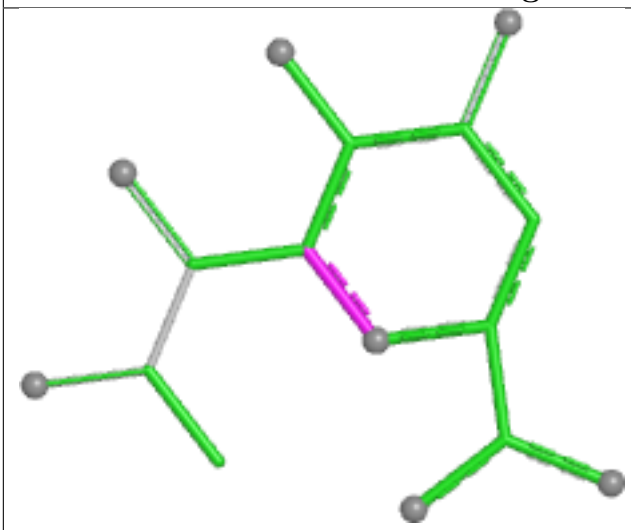


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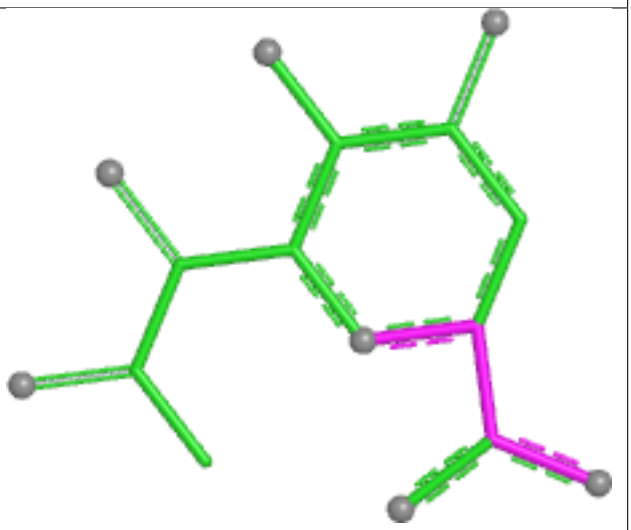


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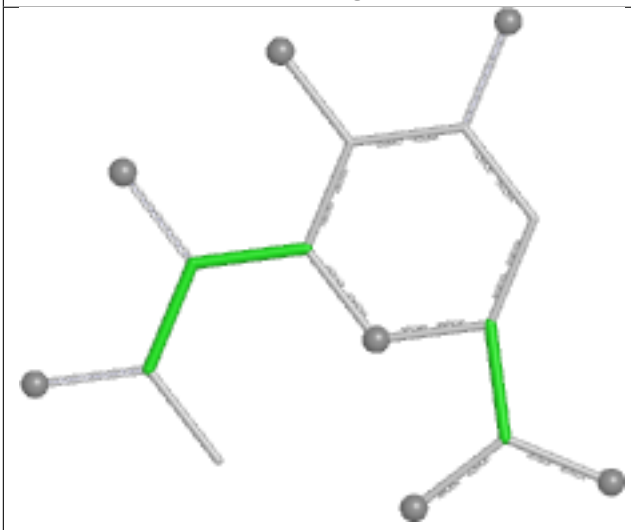
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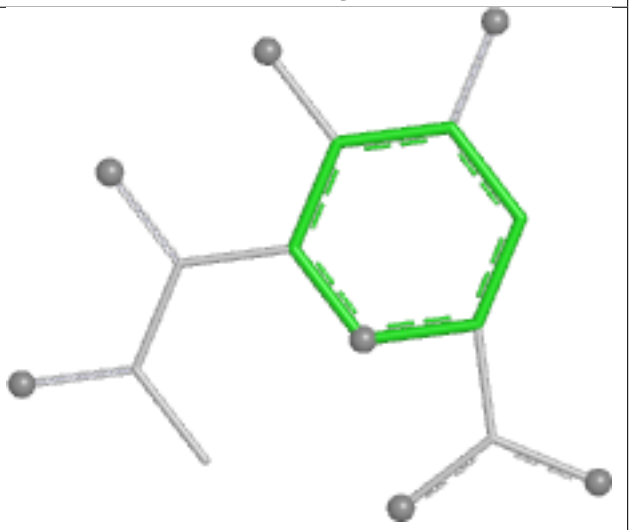
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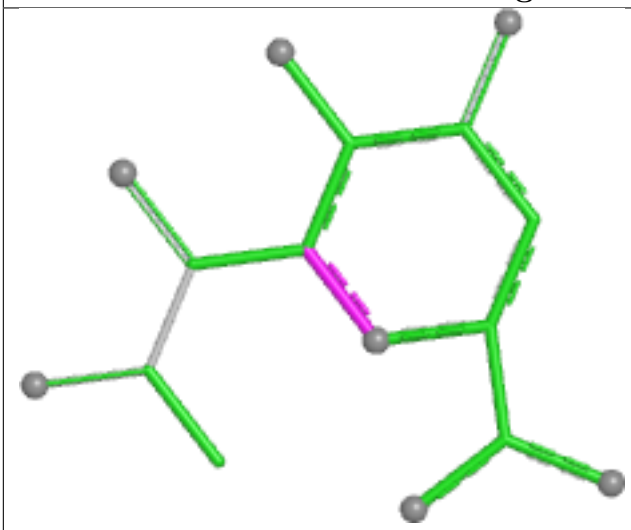


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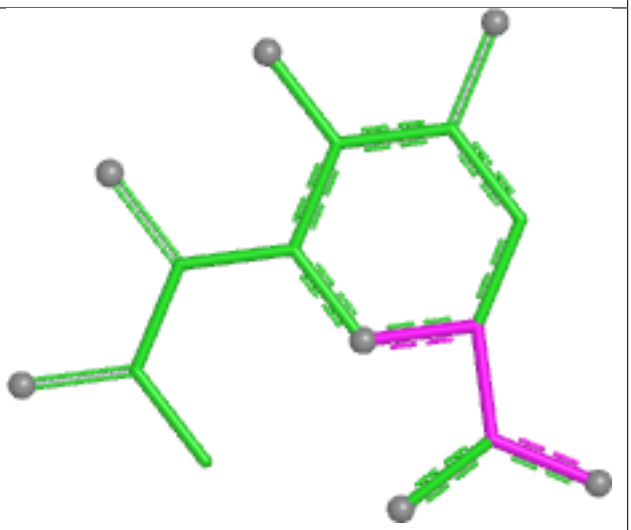


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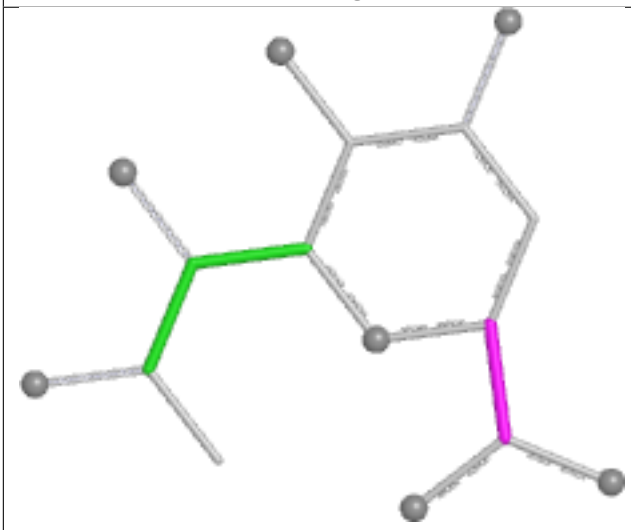
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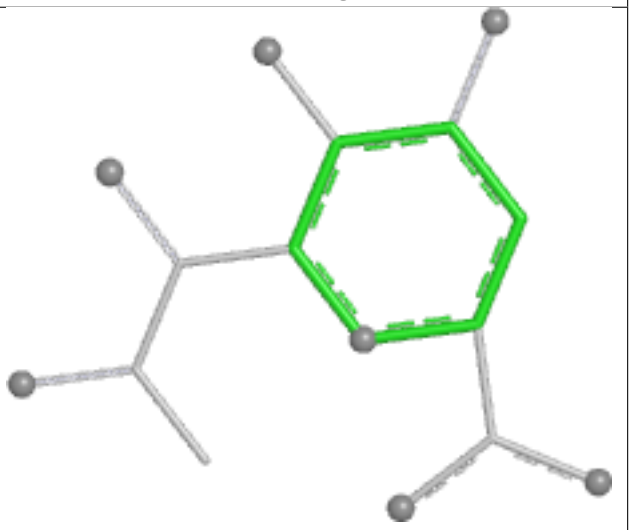
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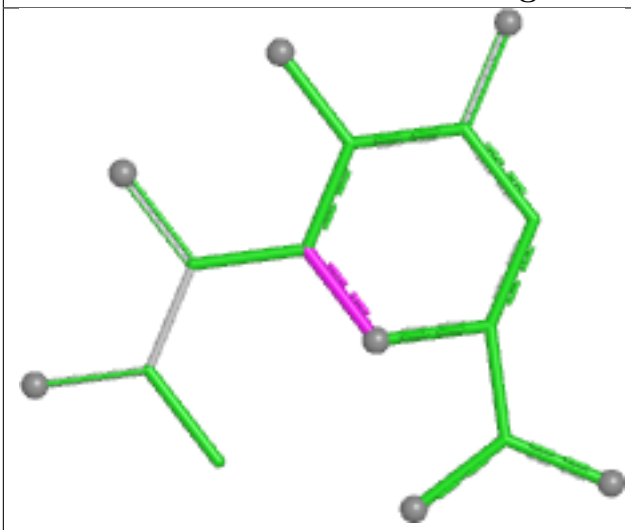


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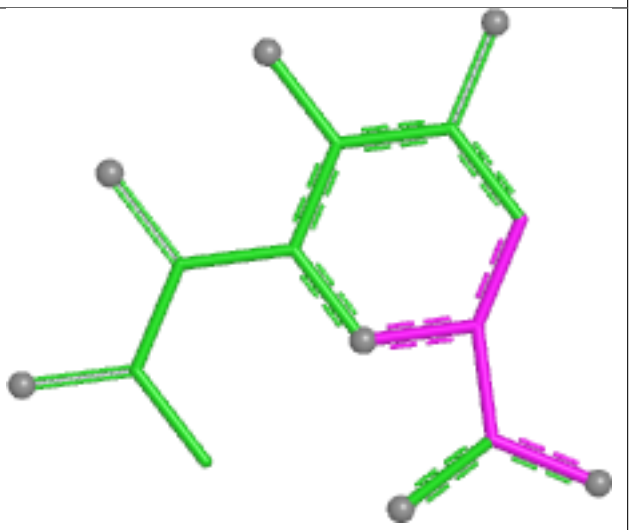


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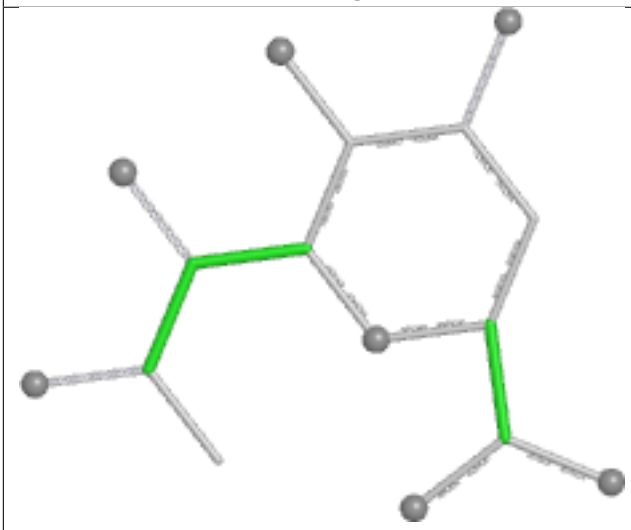
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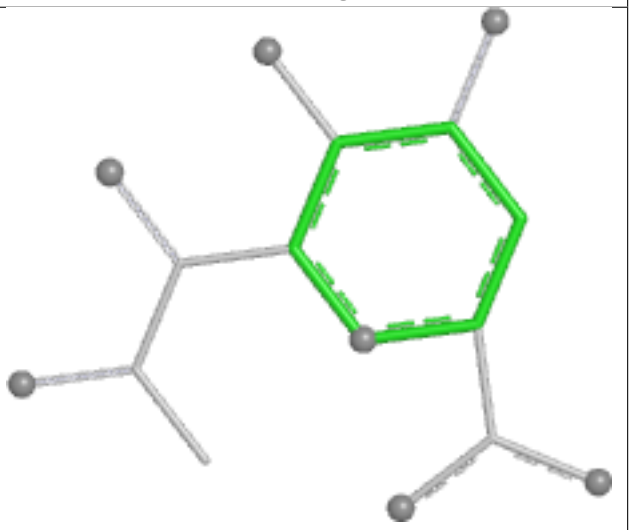
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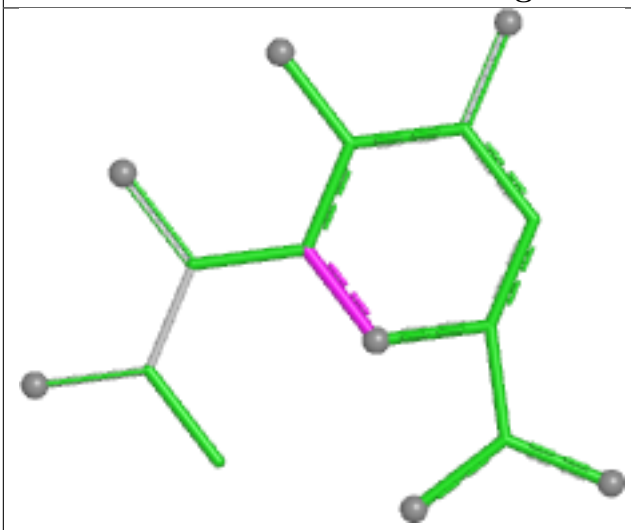


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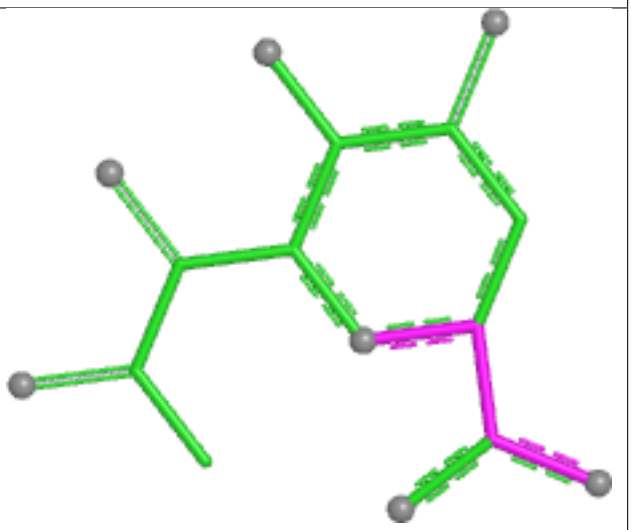


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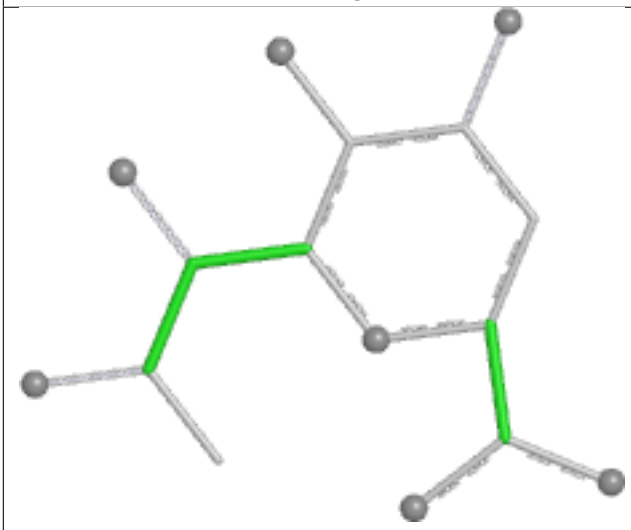
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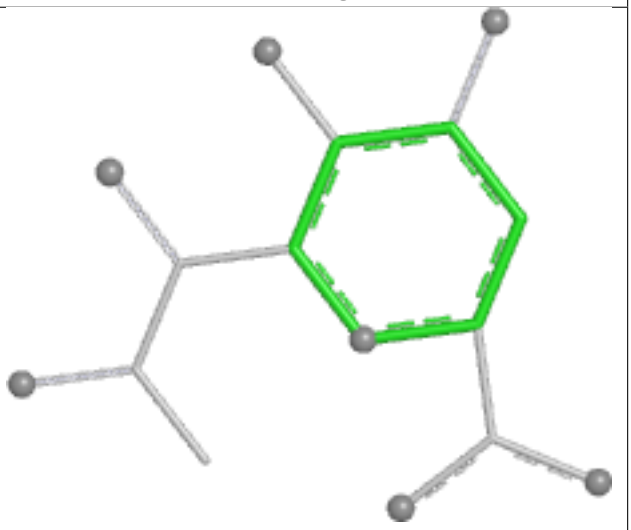
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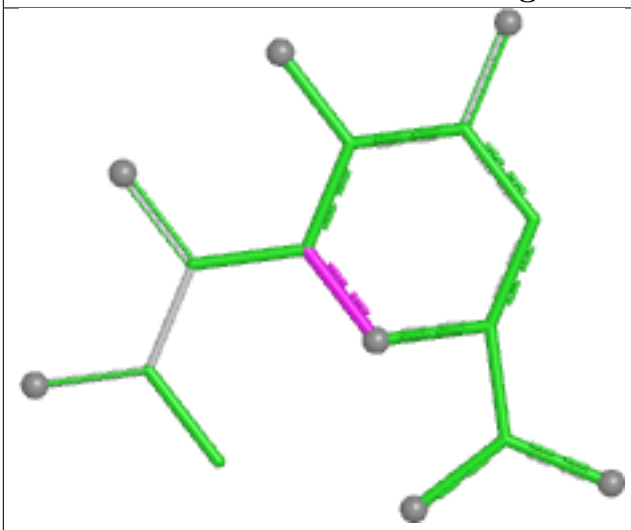


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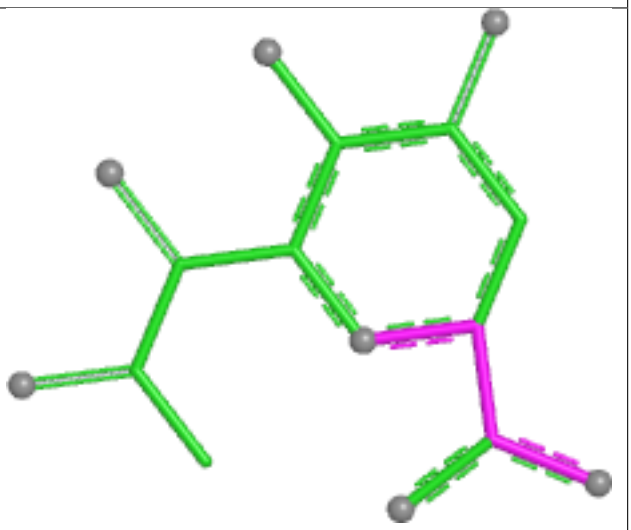


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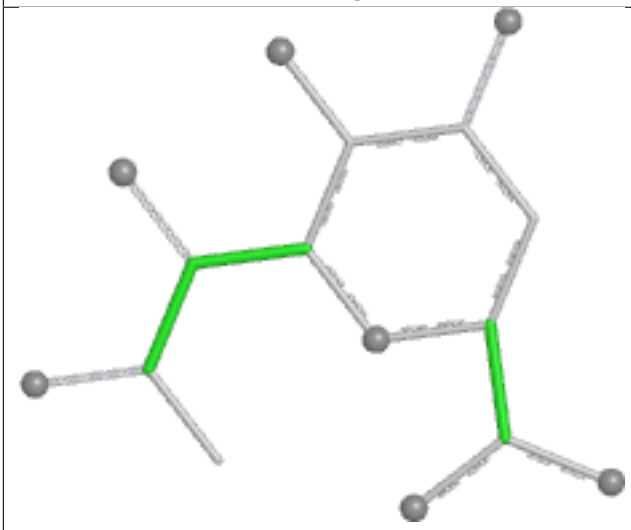
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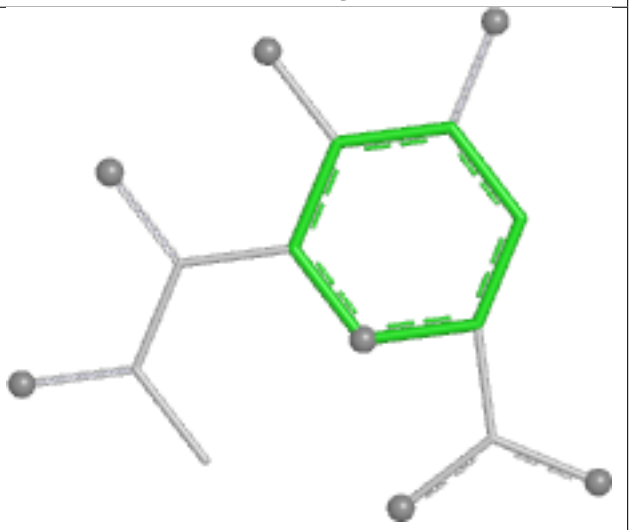
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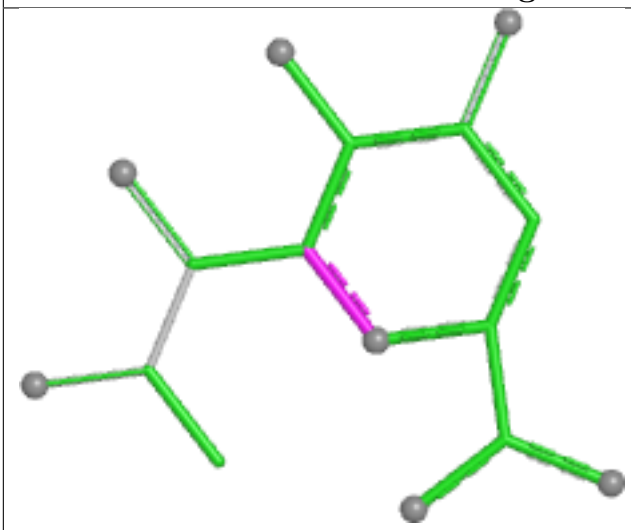


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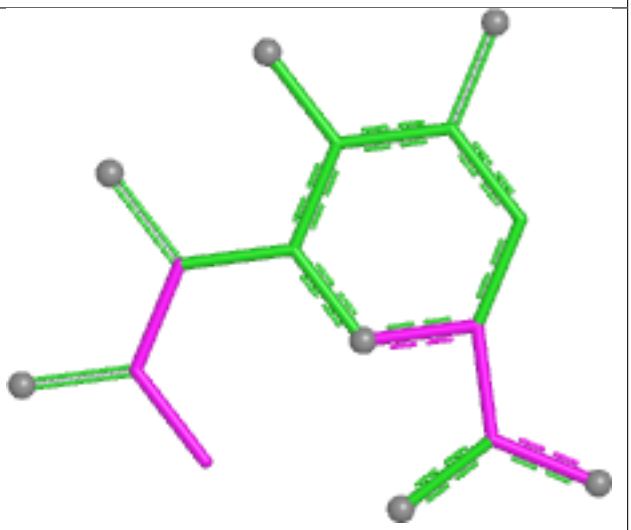


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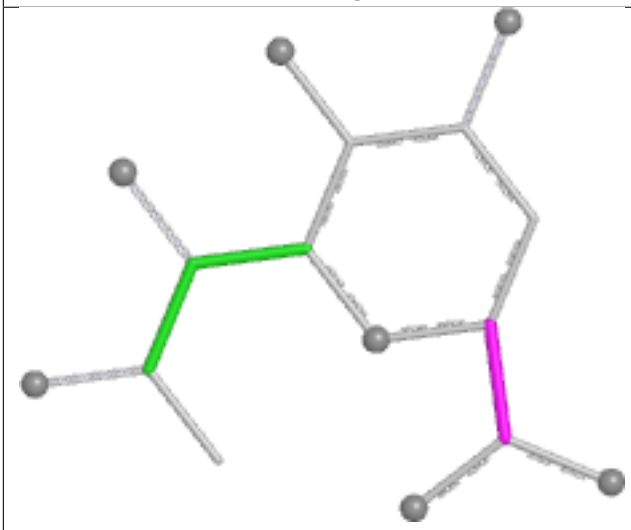
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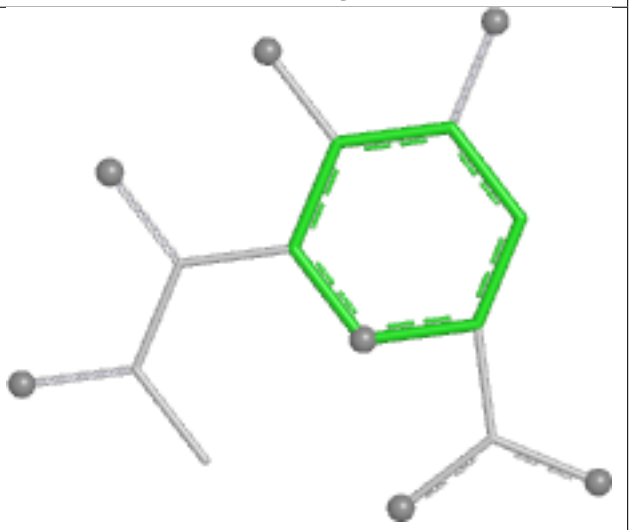
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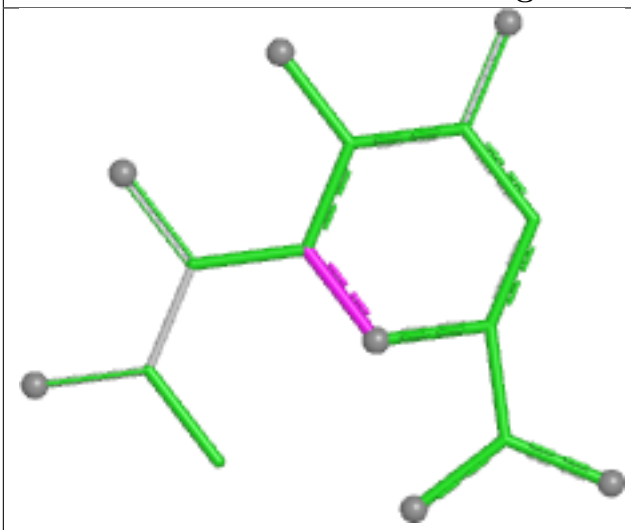


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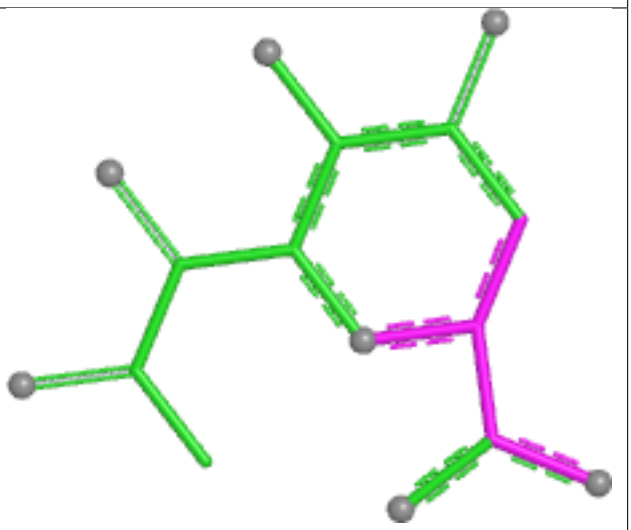


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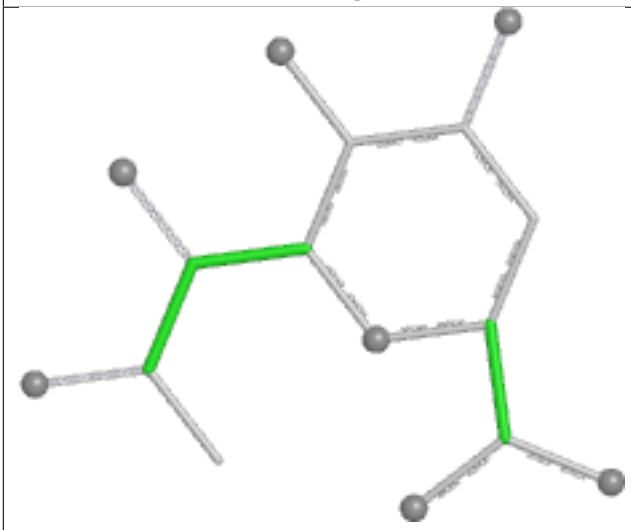
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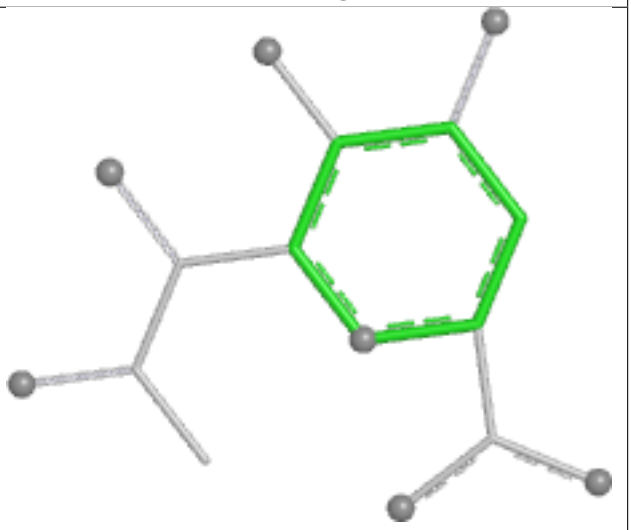
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Bond angles

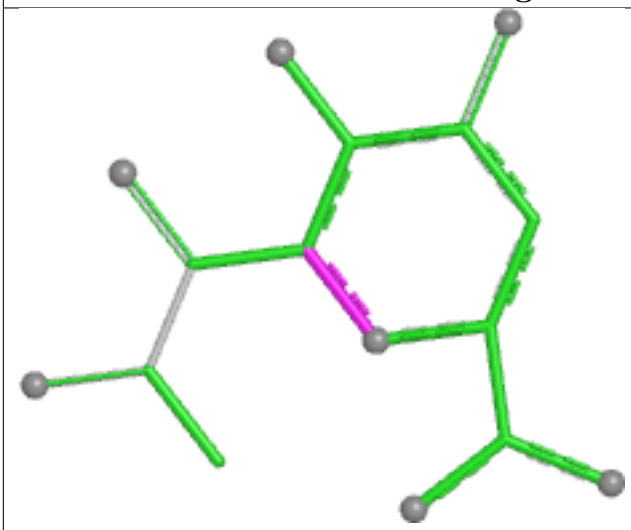


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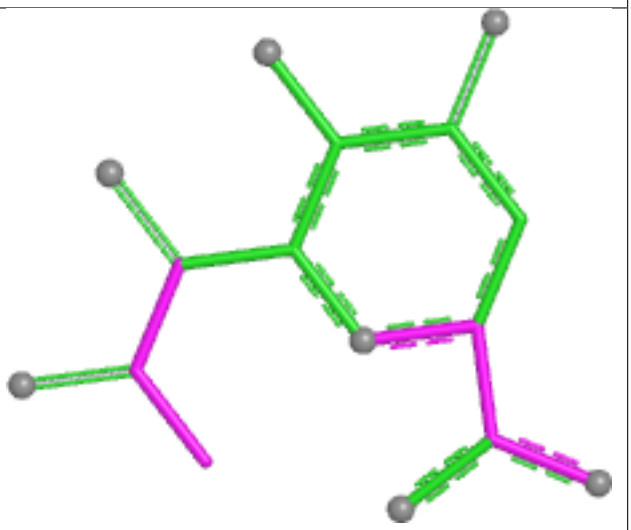


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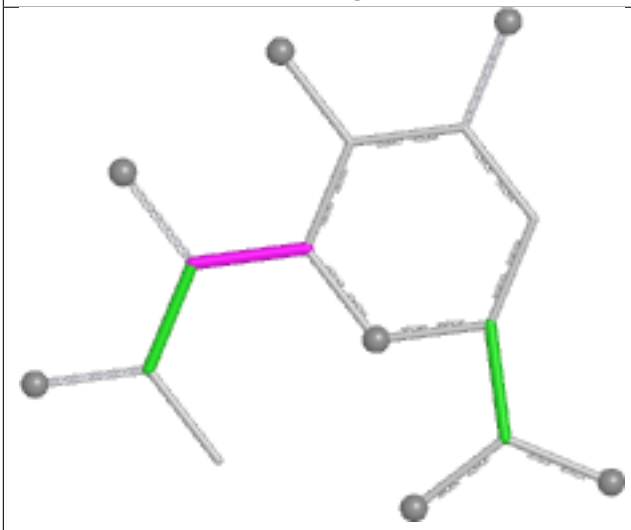
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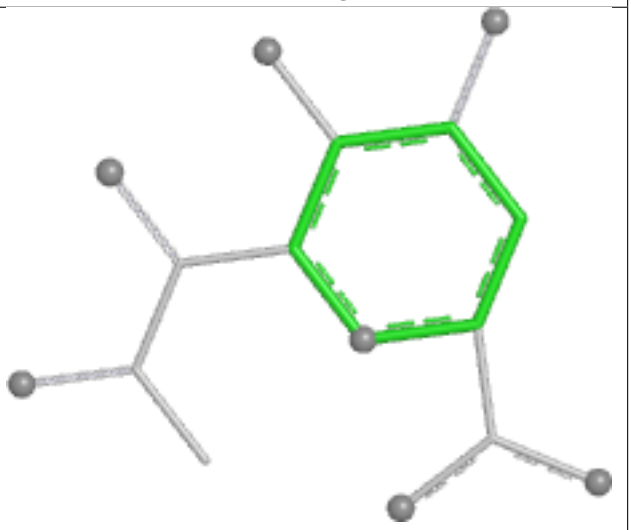
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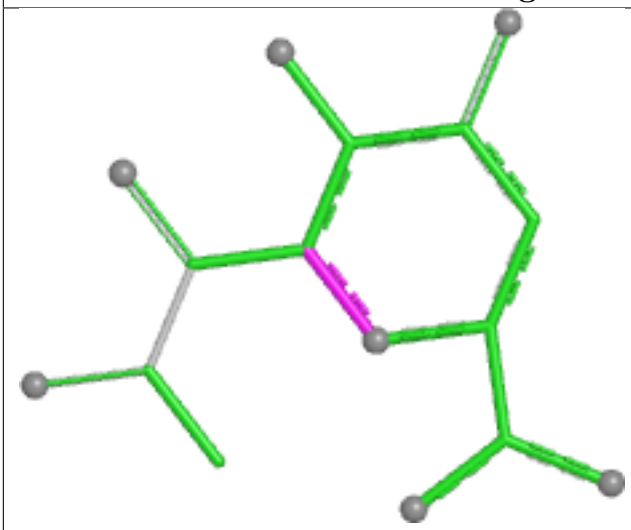


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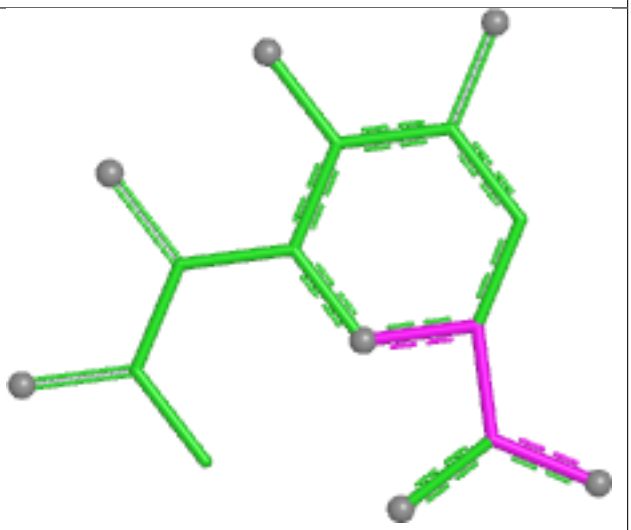


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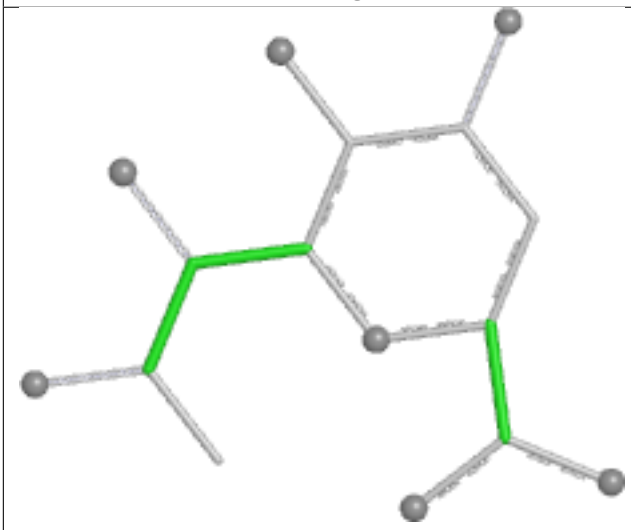
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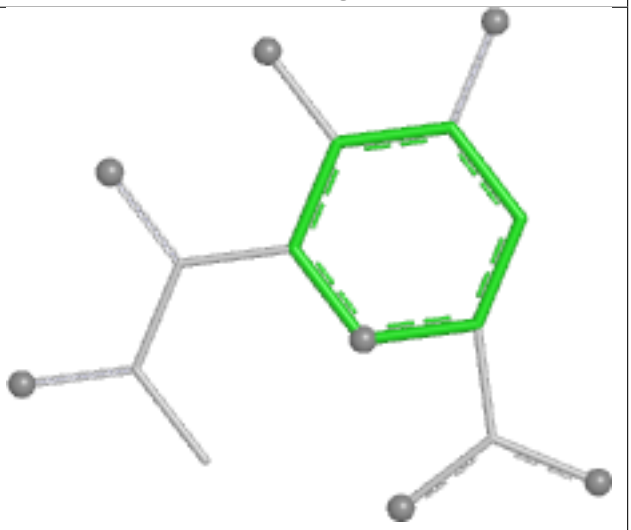
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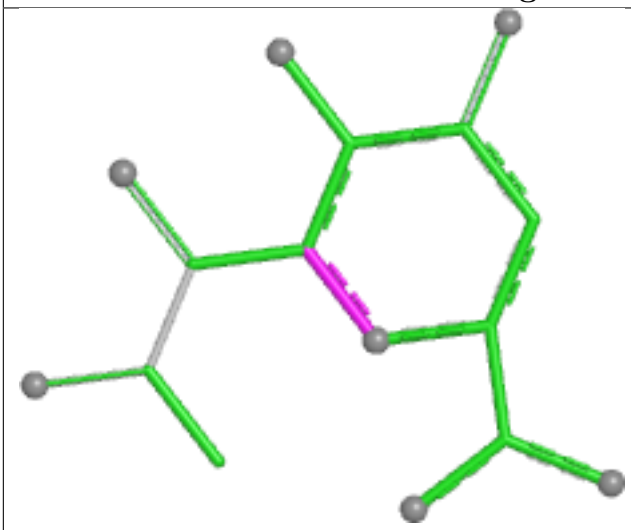


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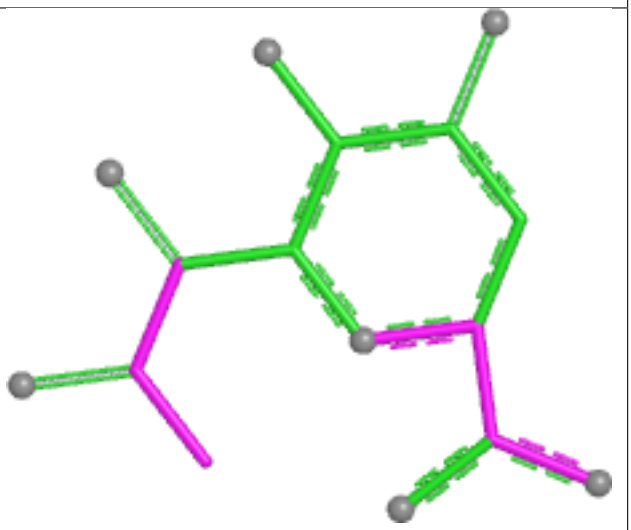


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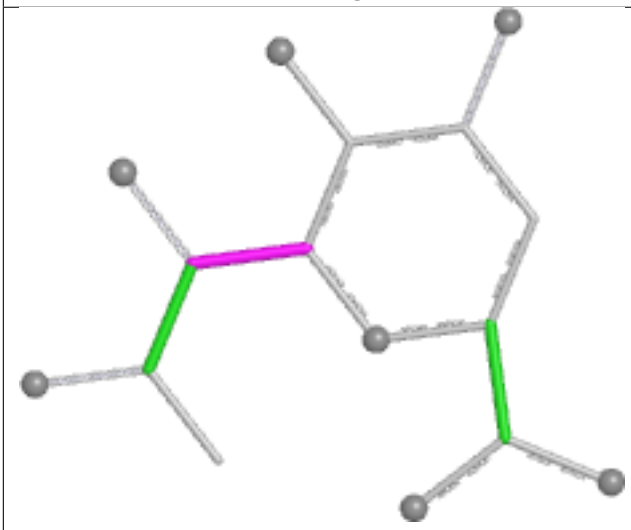
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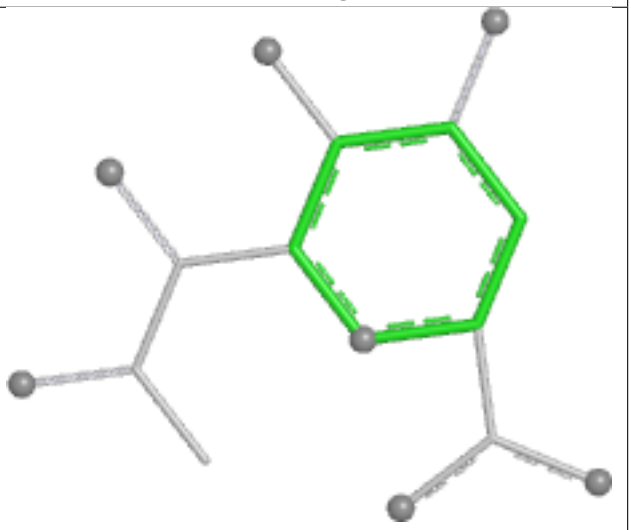
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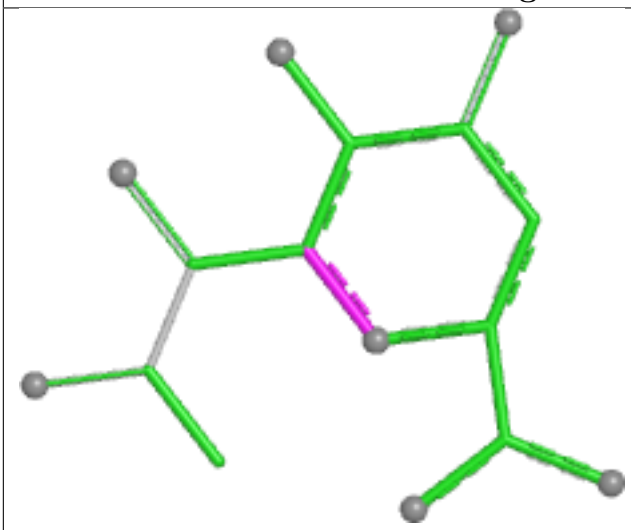


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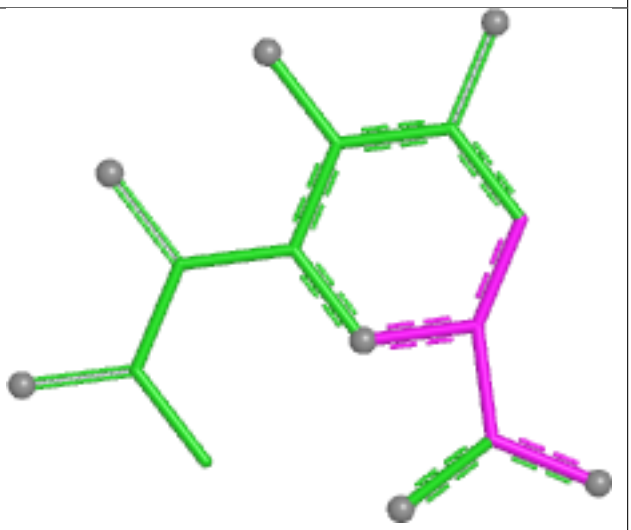


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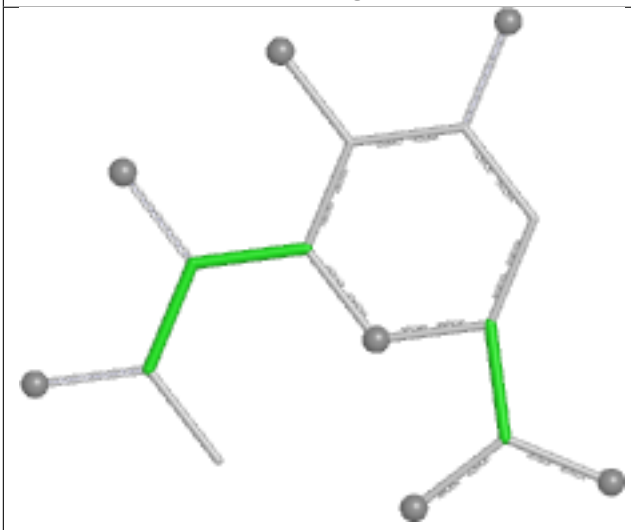
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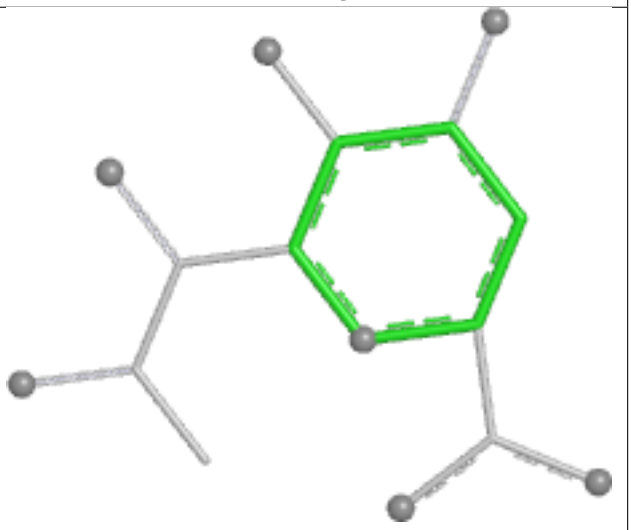
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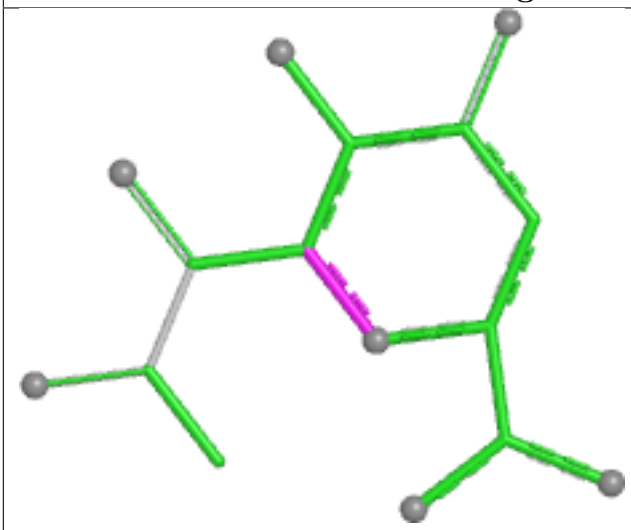


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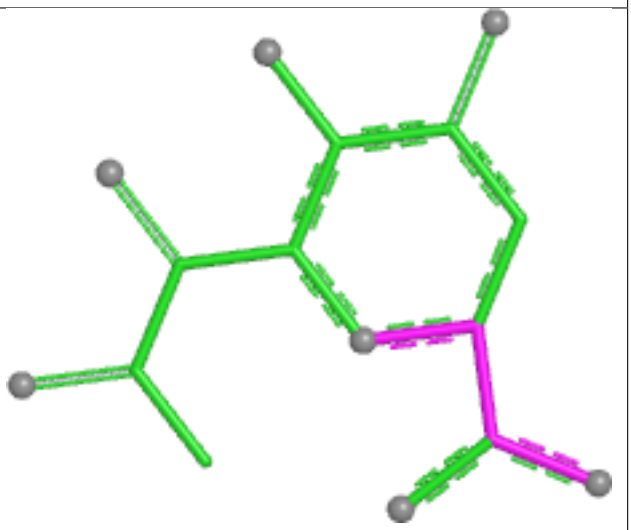


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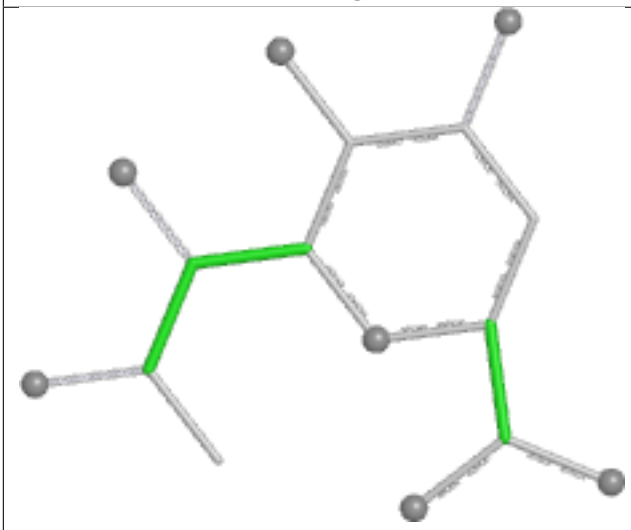
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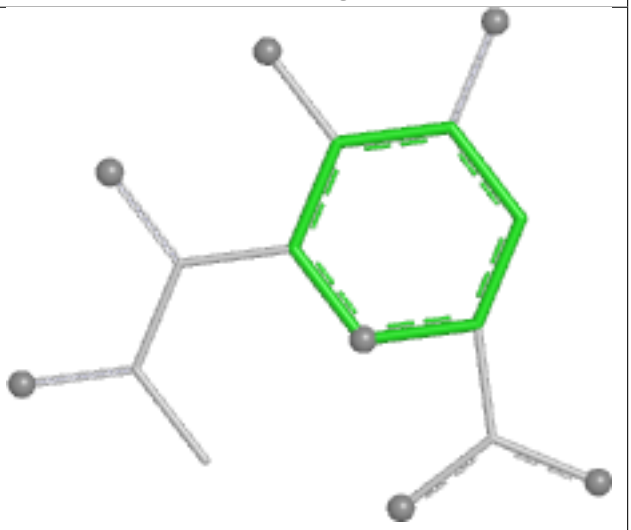
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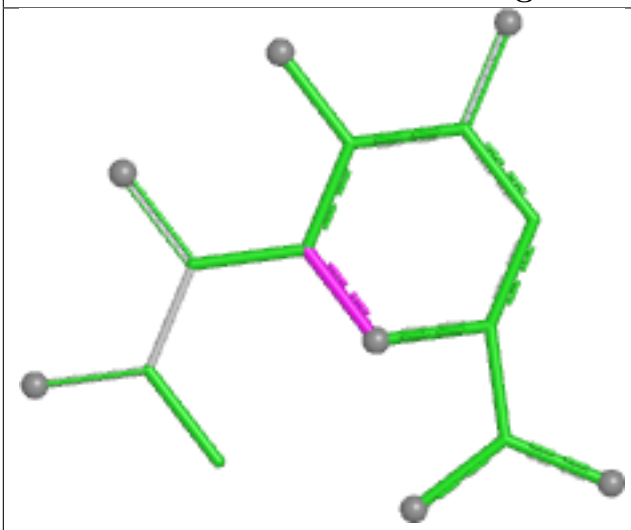


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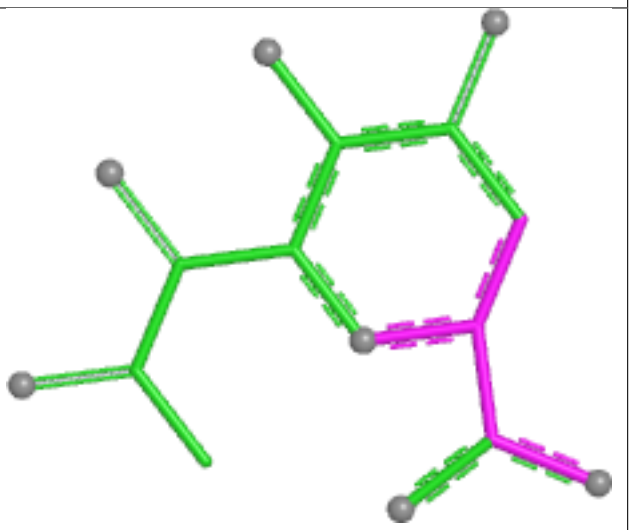


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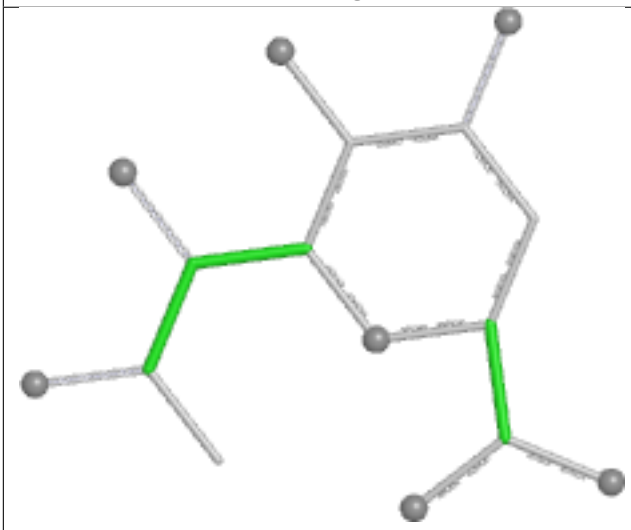
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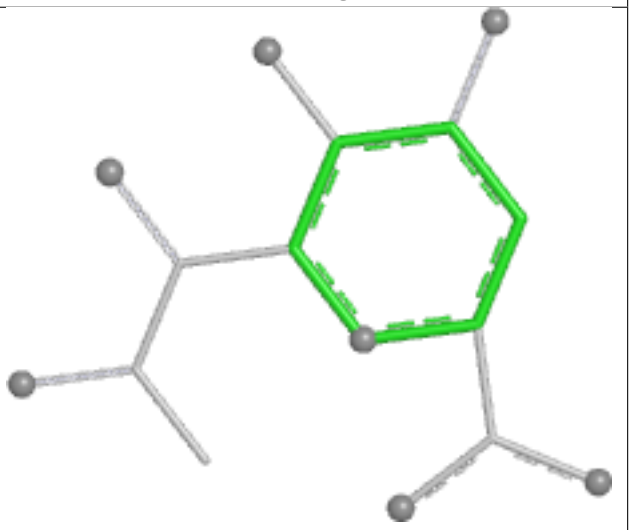
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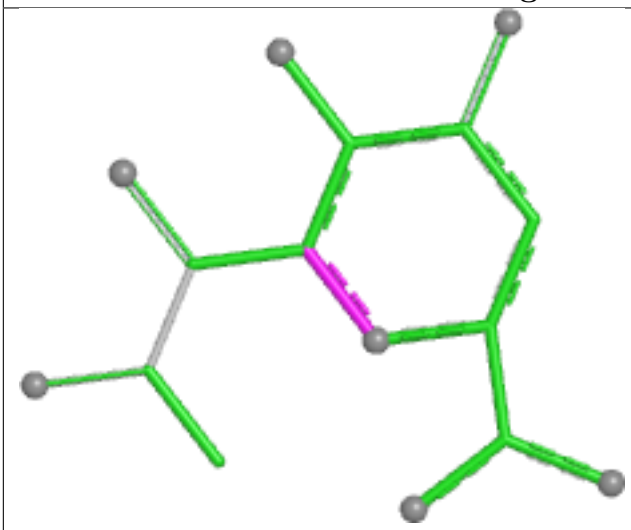


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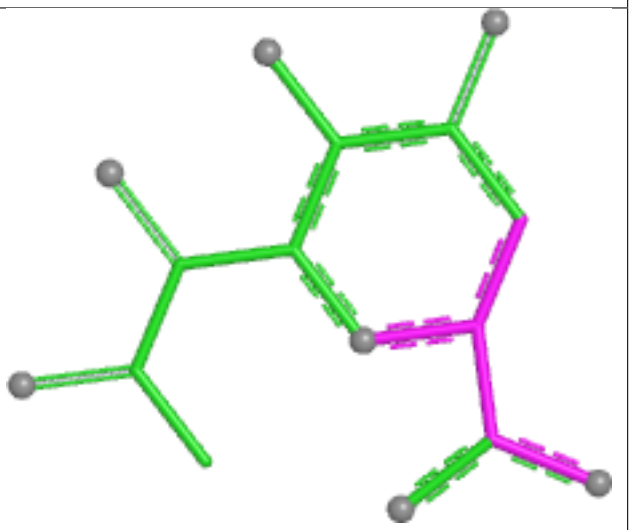


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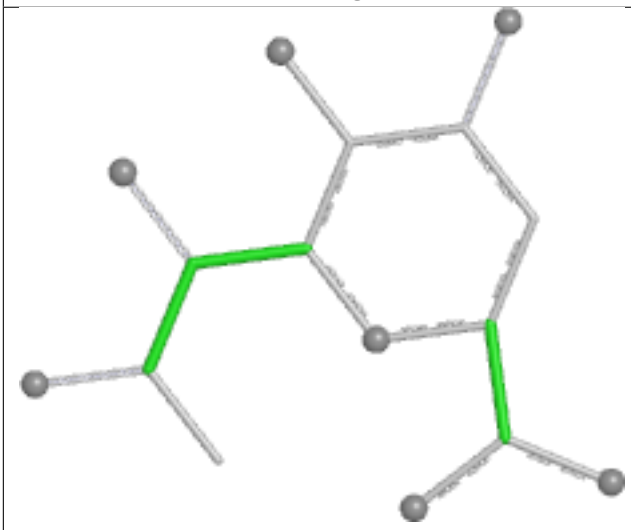
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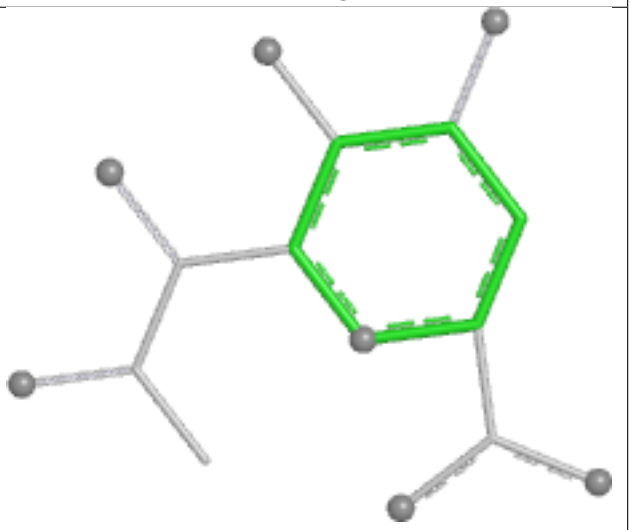
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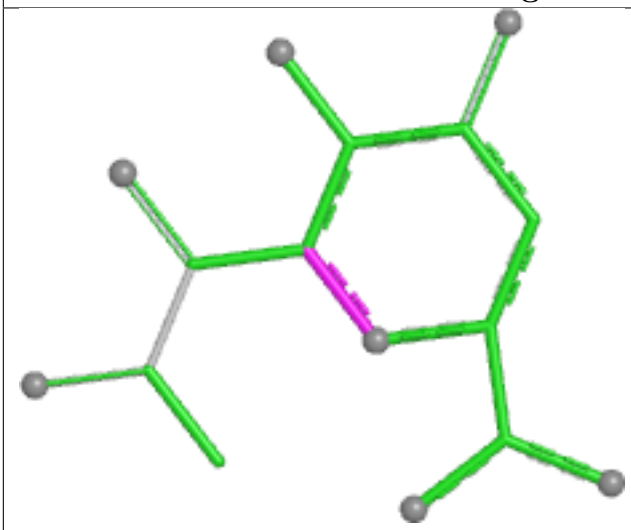


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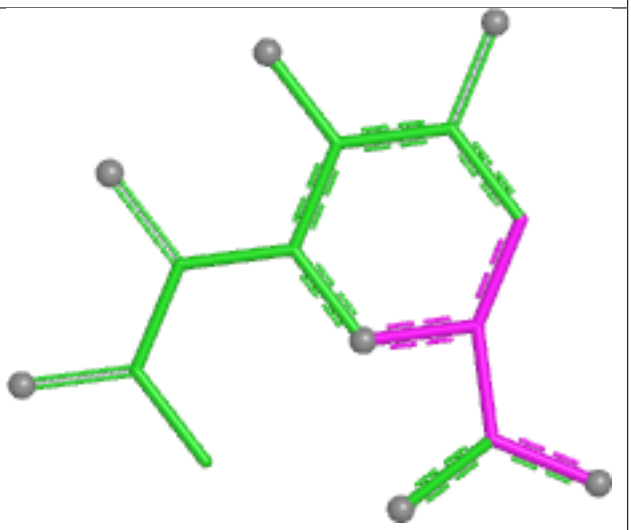


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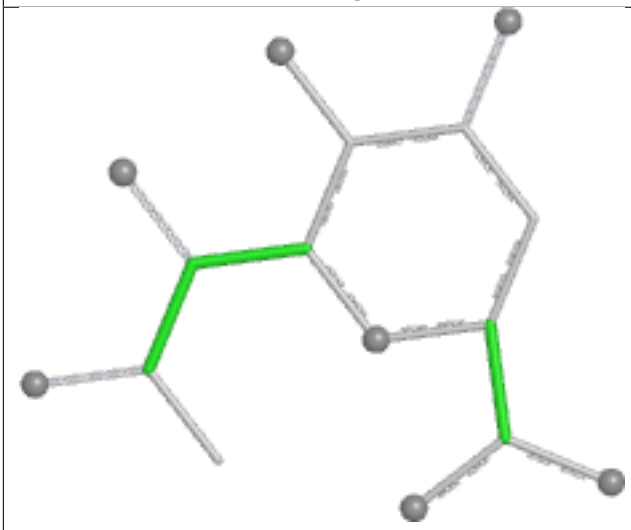
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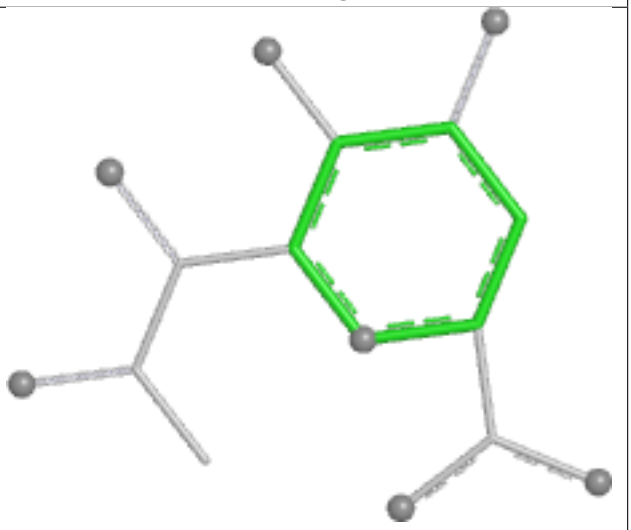
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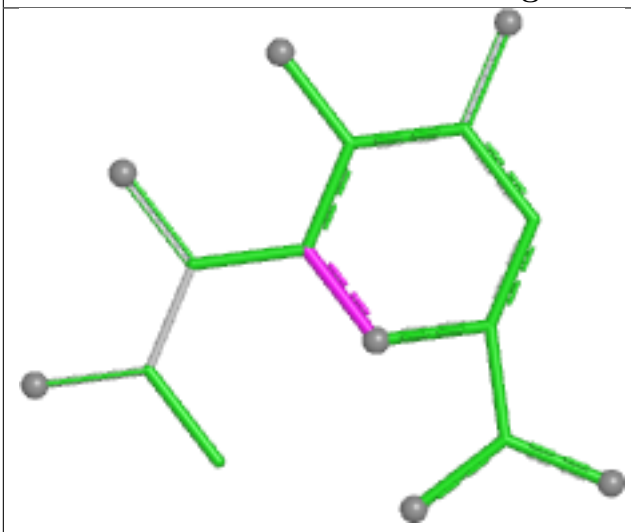


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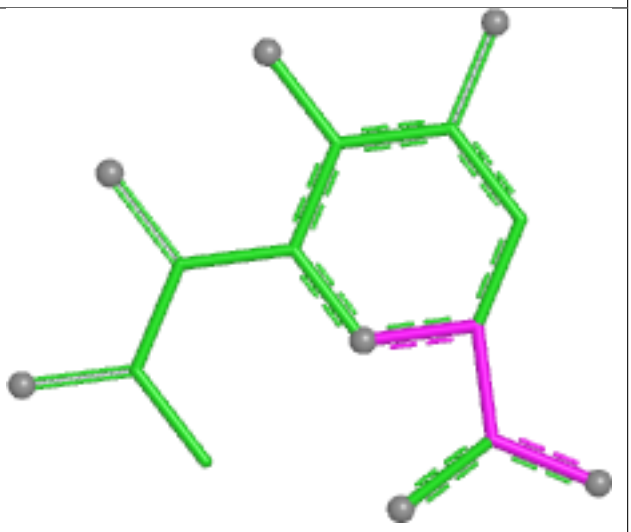


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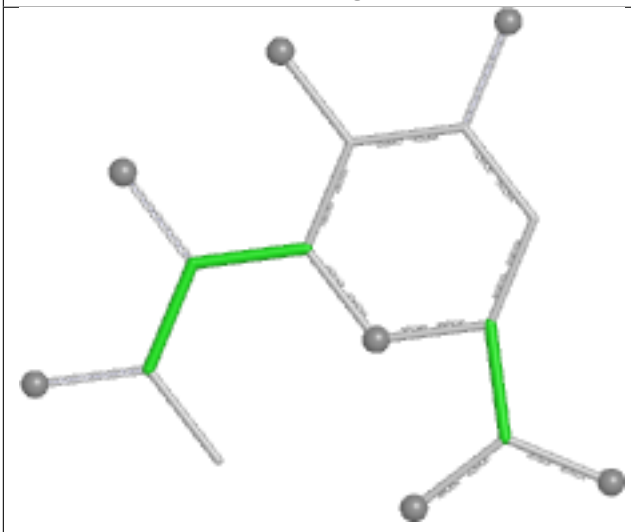
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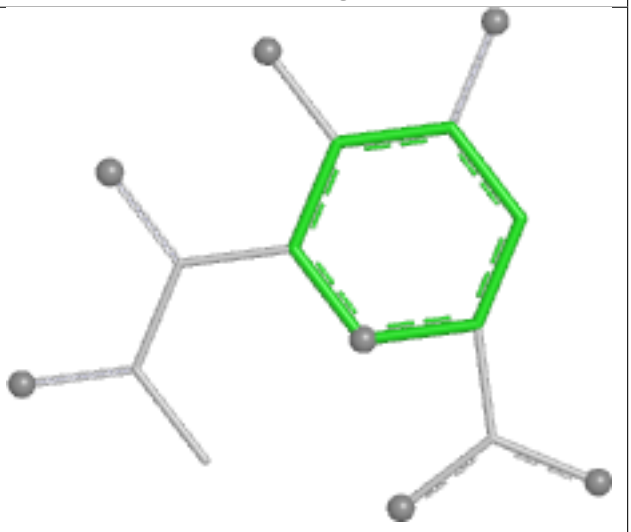
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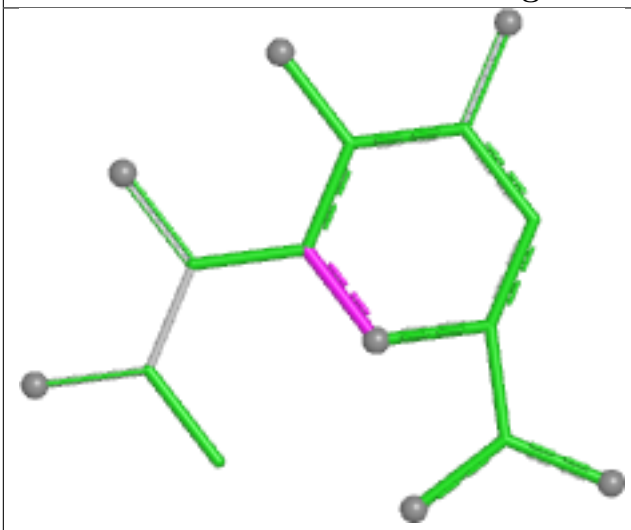


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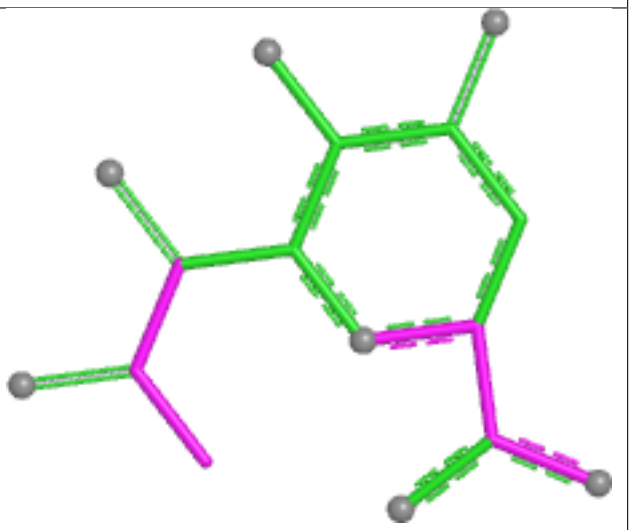


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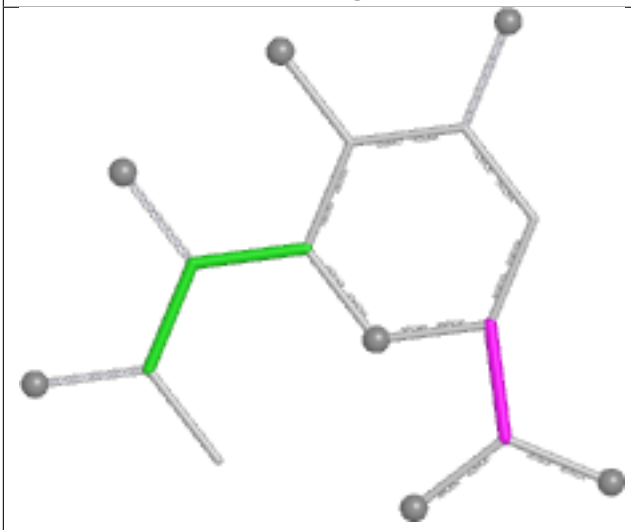
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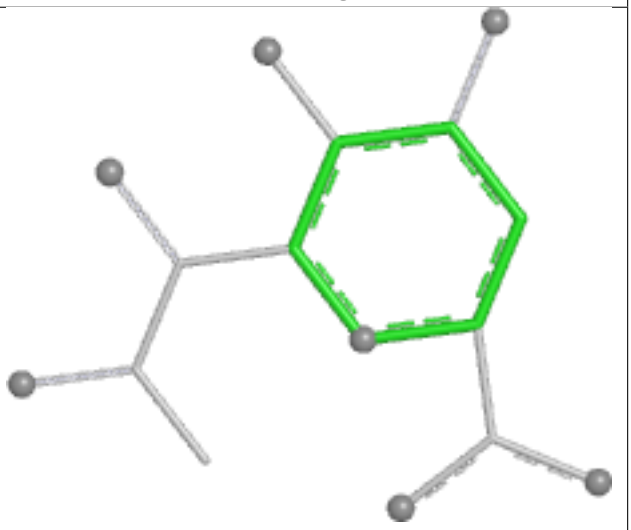
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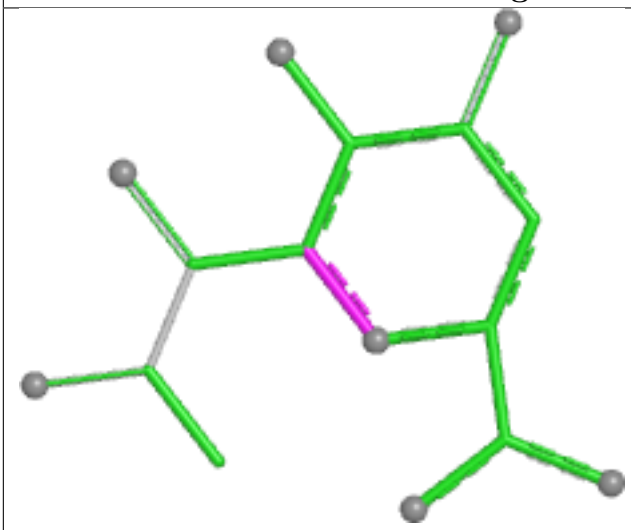


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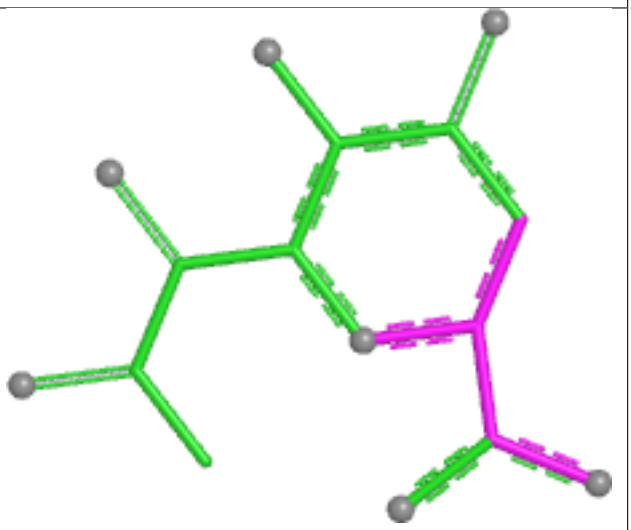


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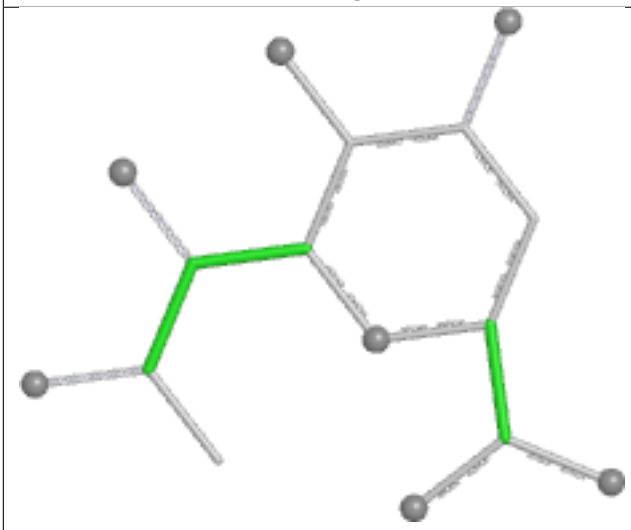
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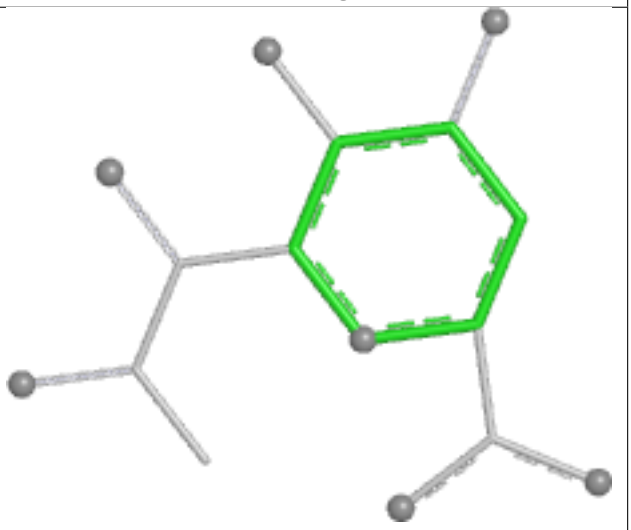
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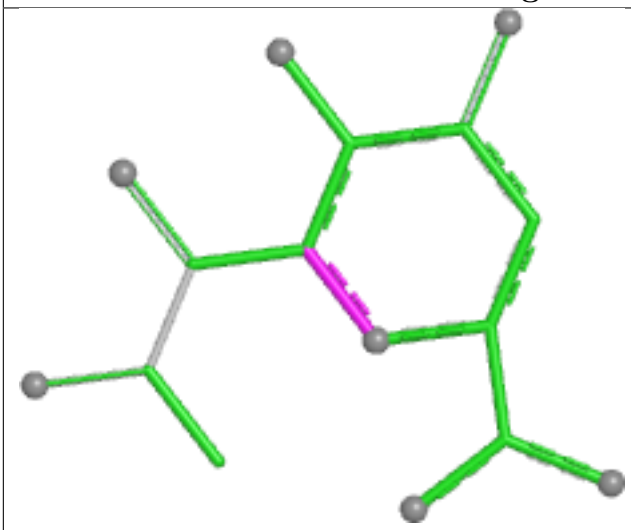


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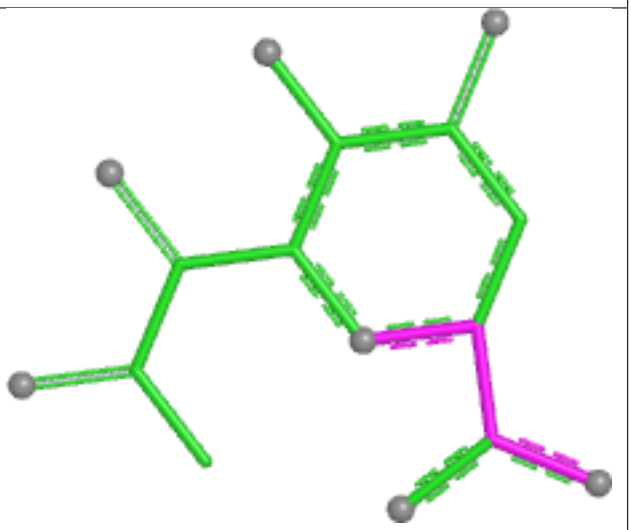


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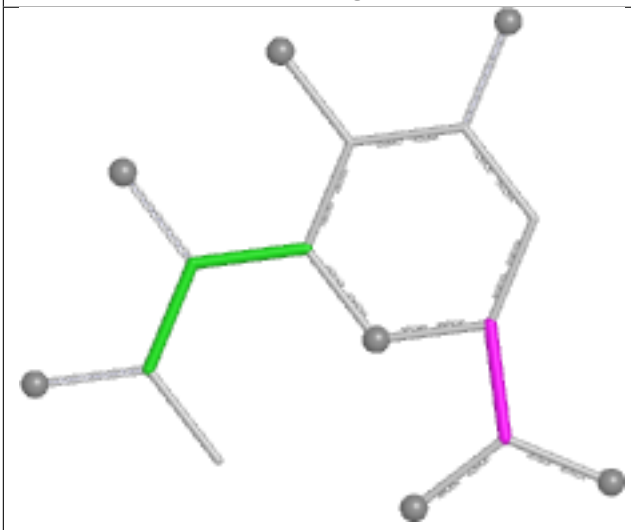
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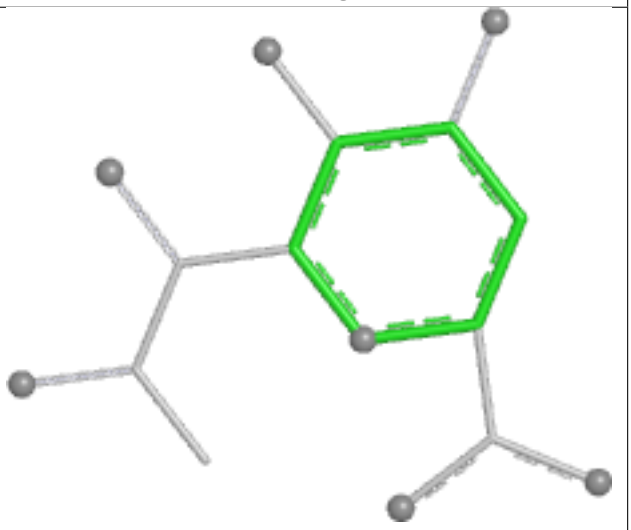
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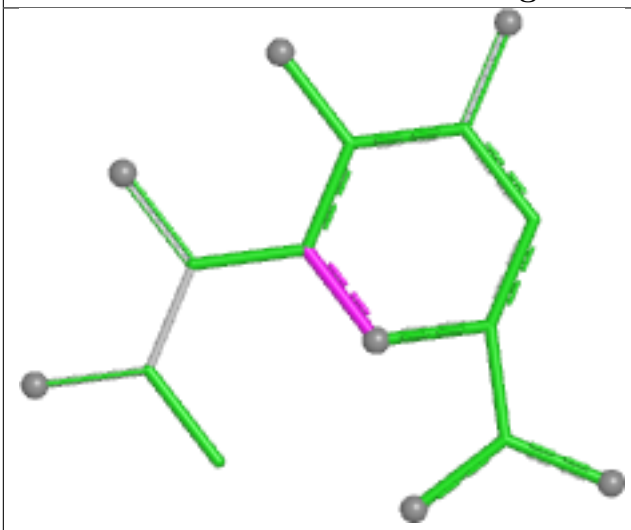


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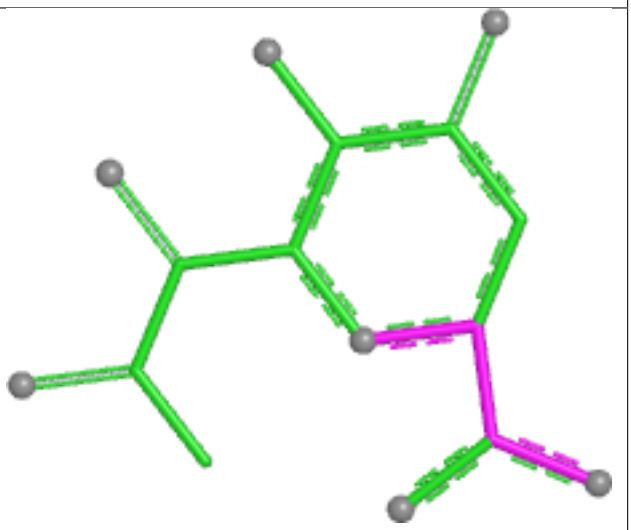


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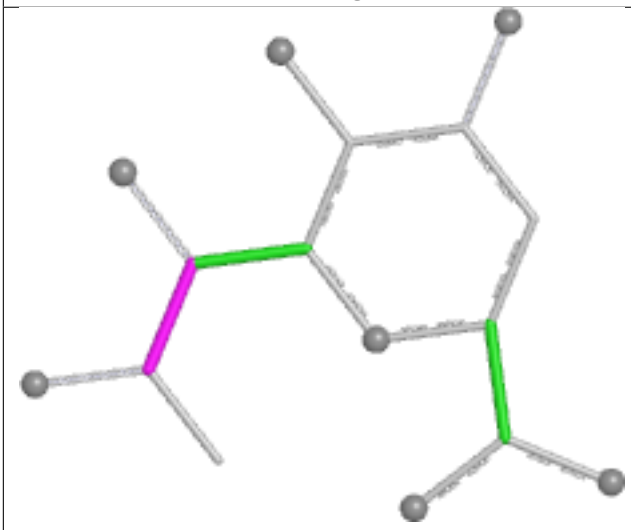
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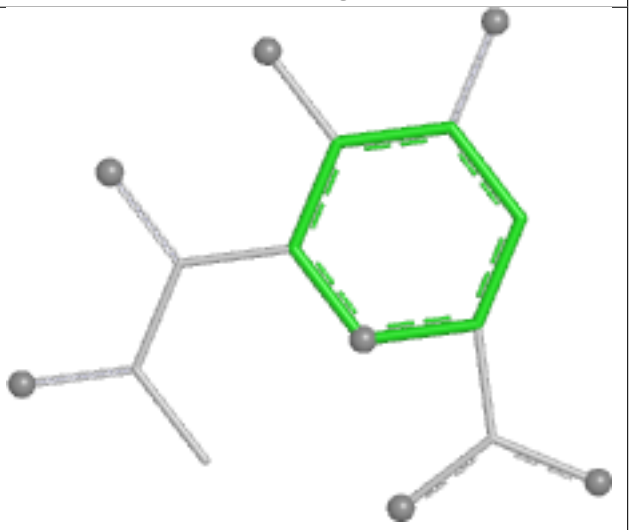
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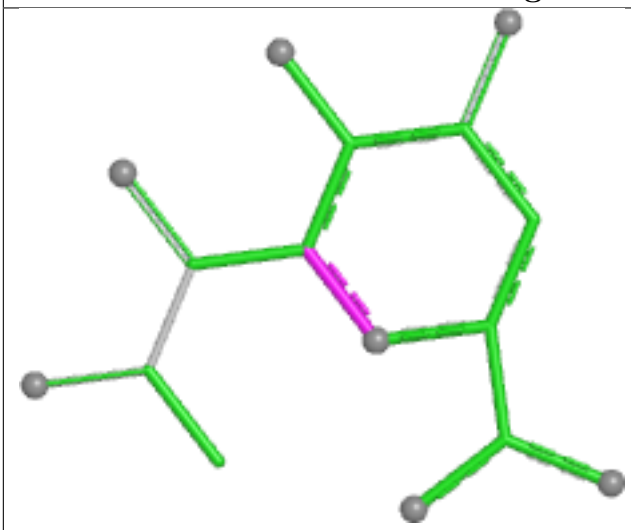


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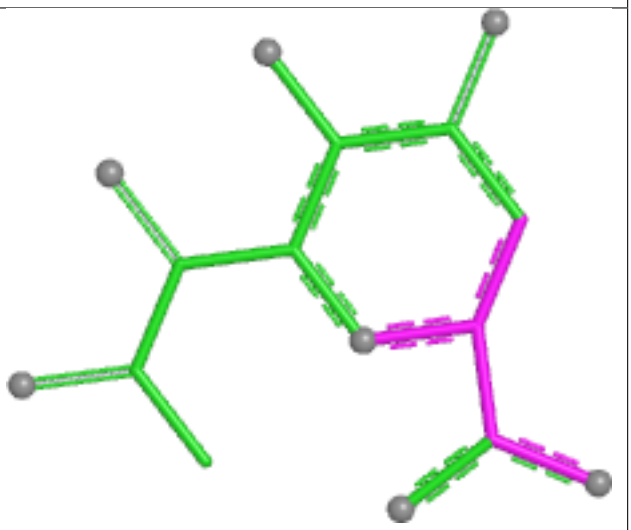


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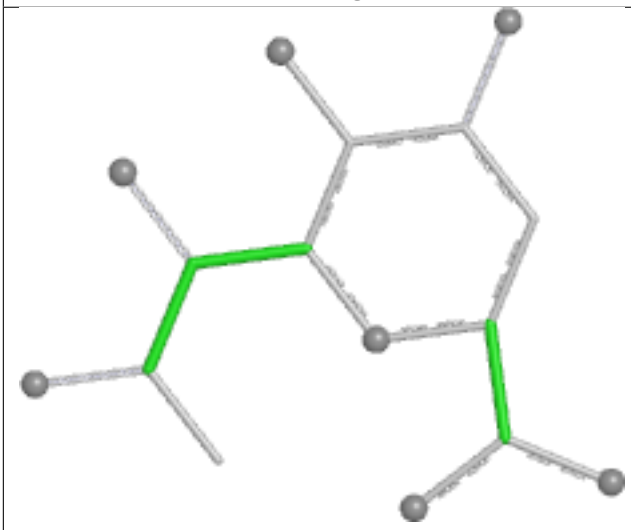
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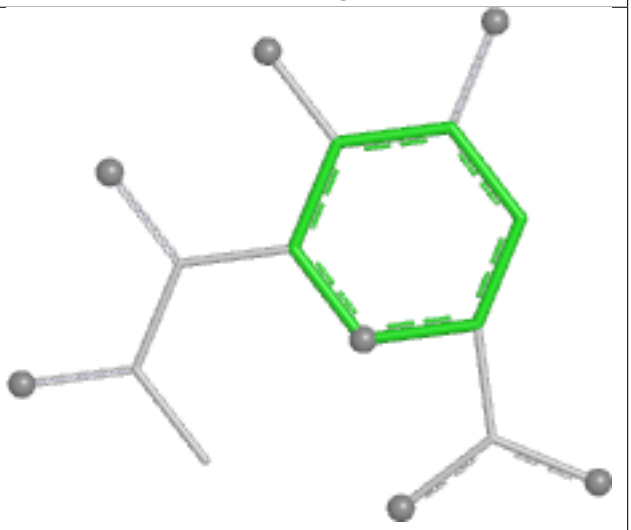
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Bond angles

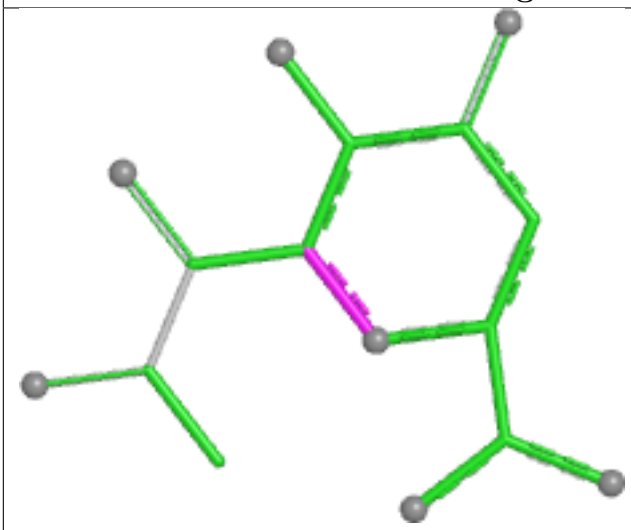


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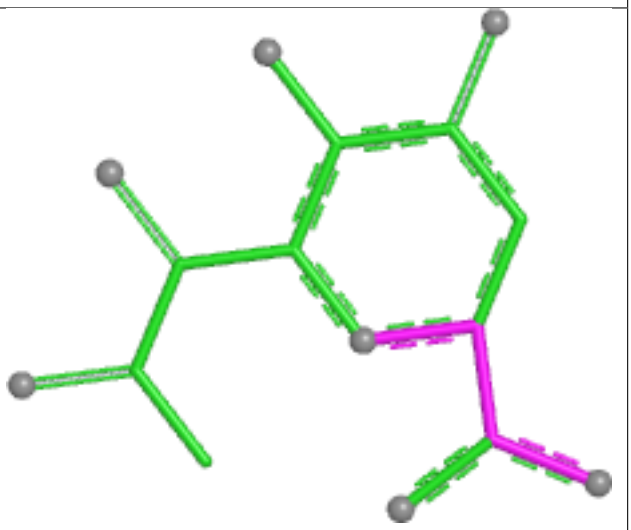


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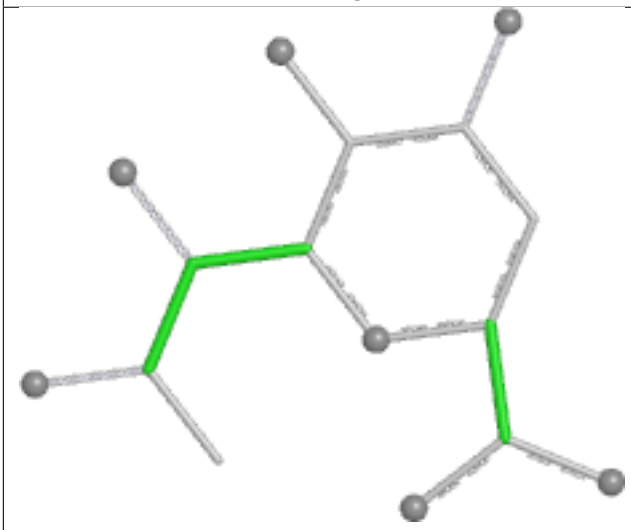
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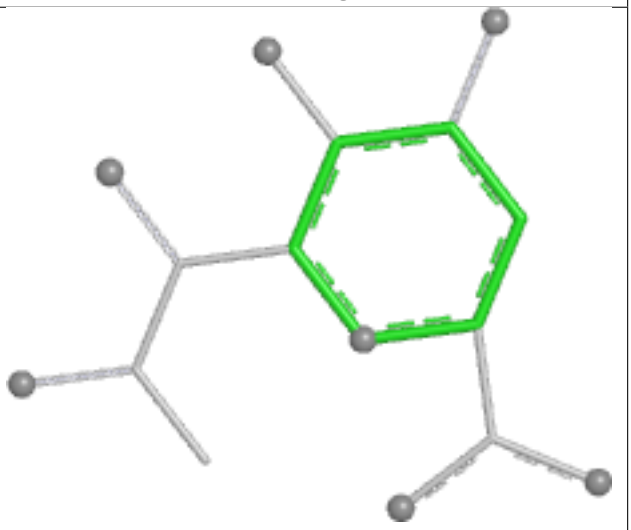
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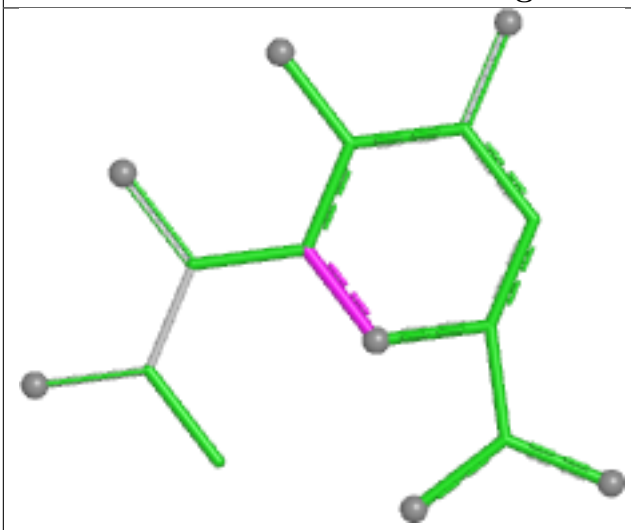


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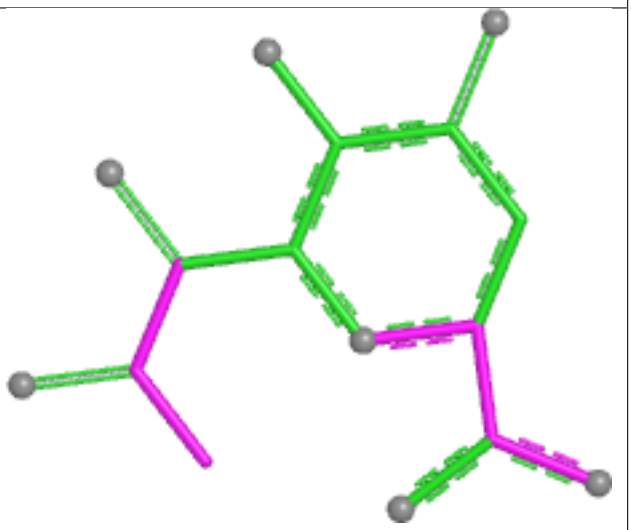


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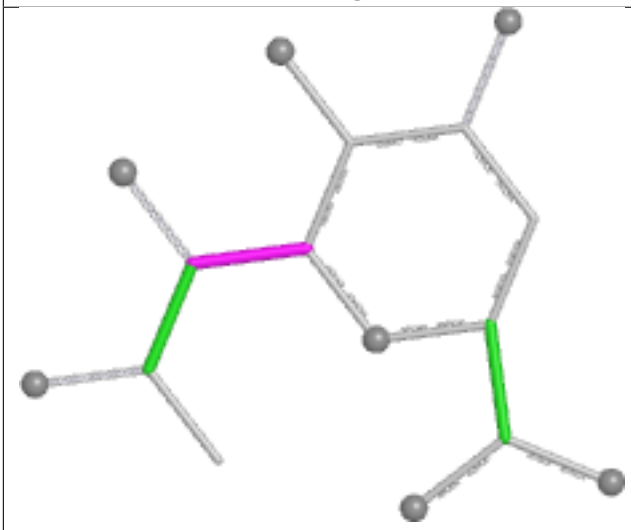
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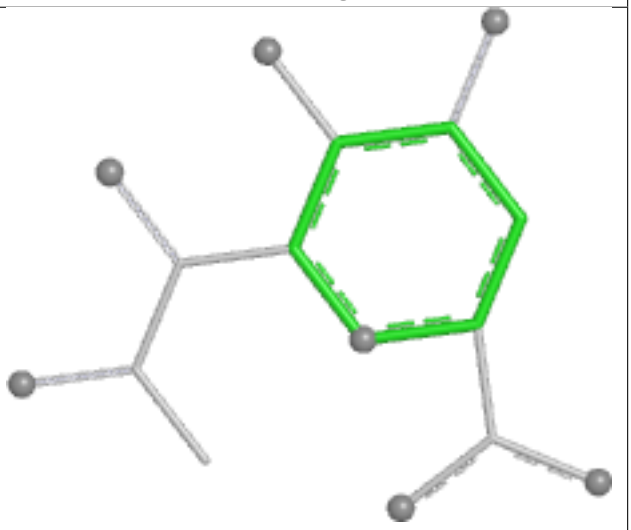
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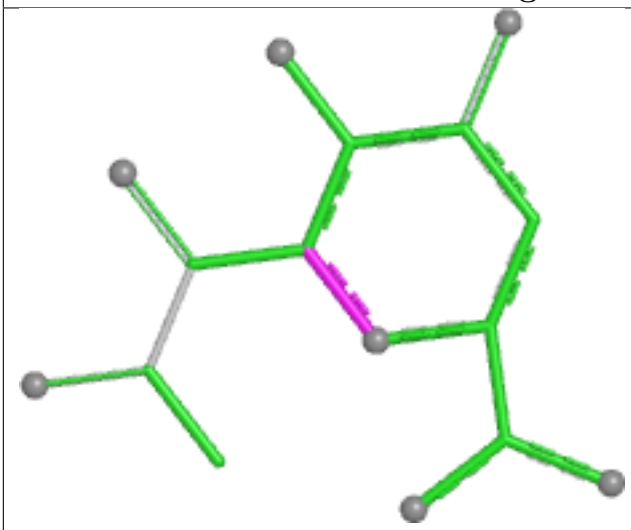


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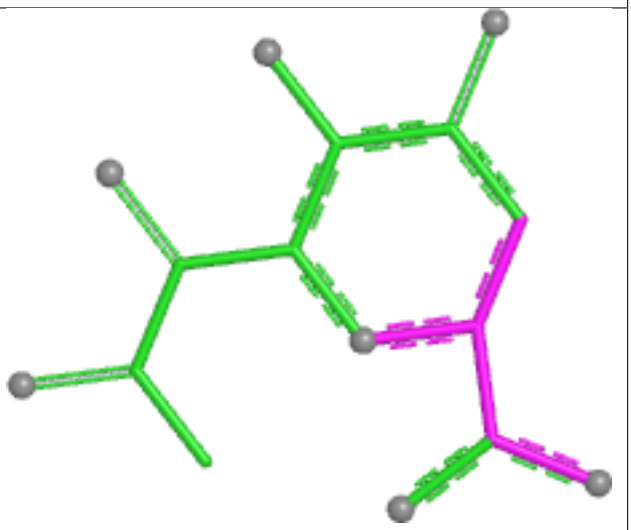


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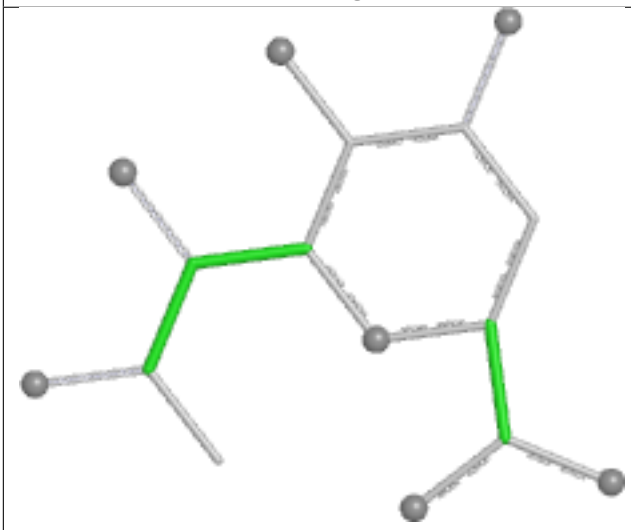
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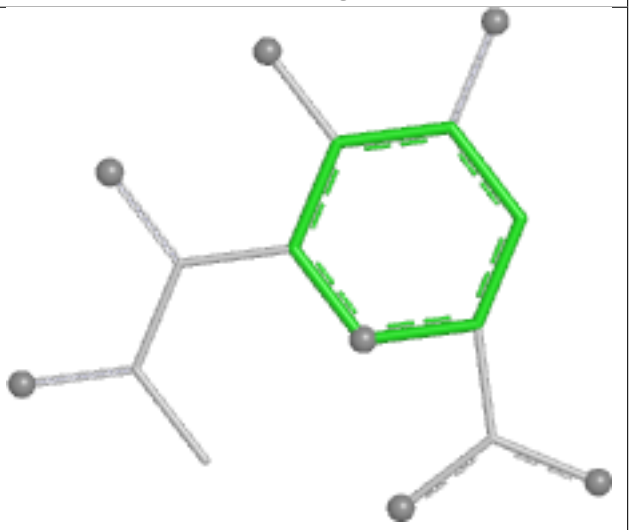
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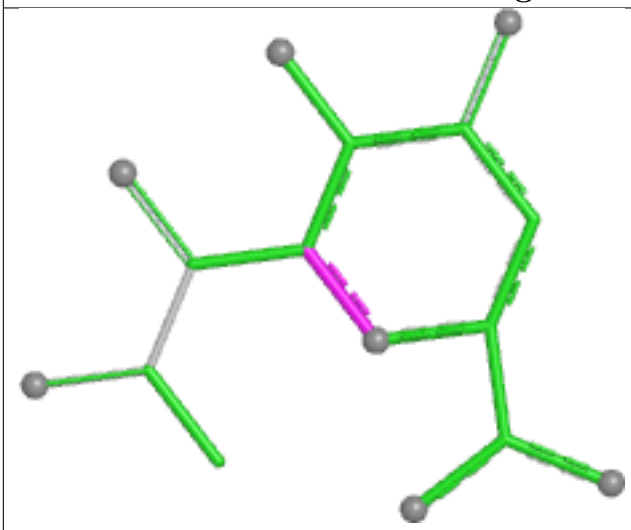


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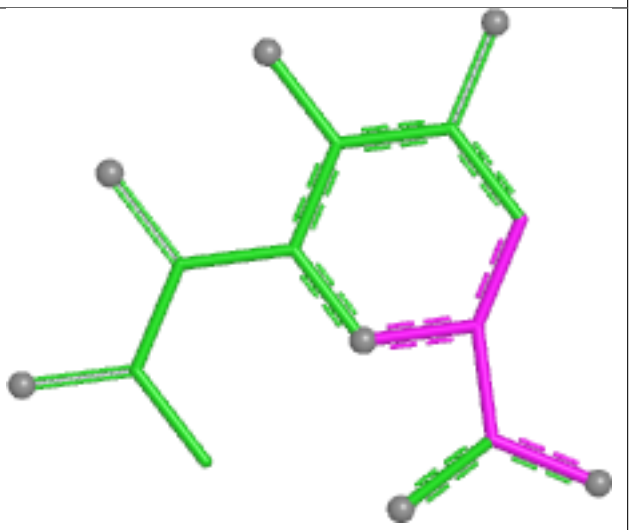


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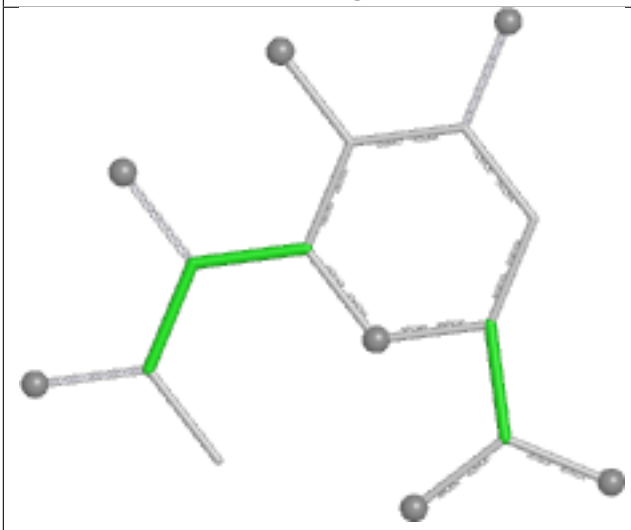
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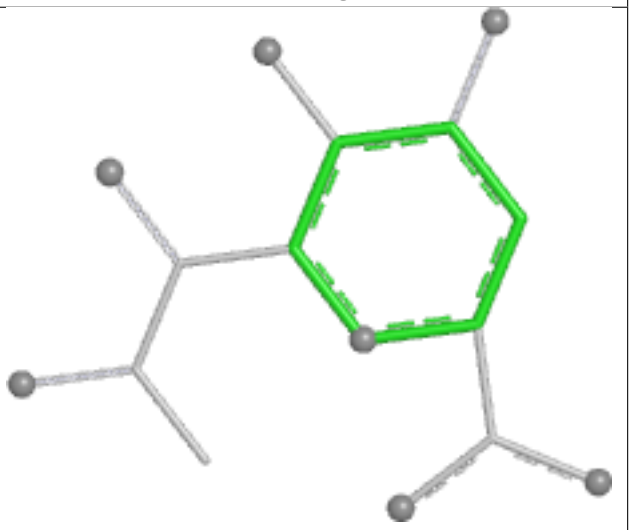
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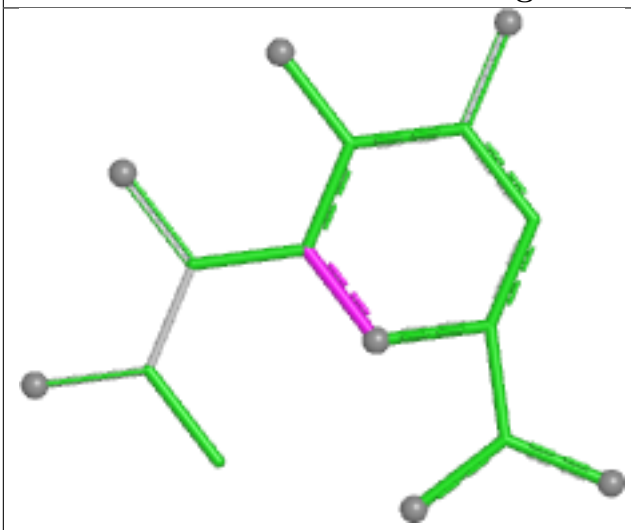


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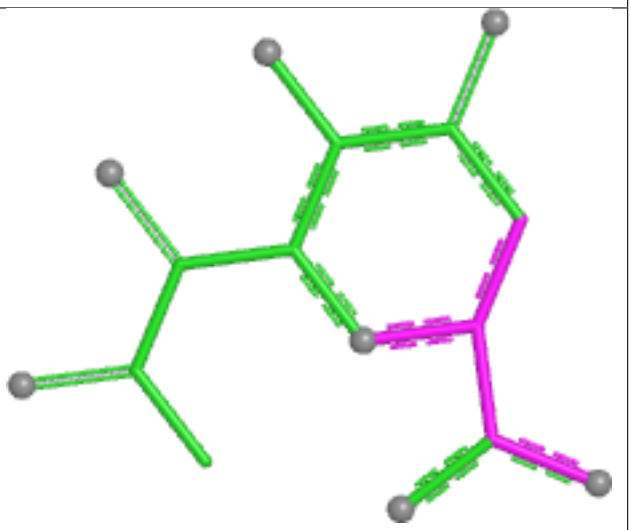


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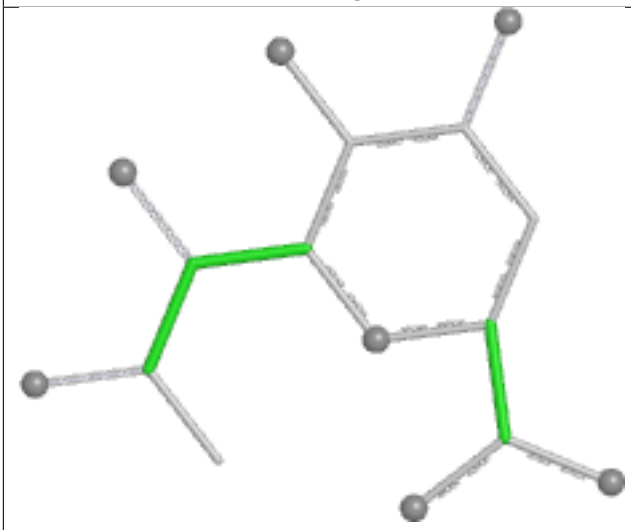
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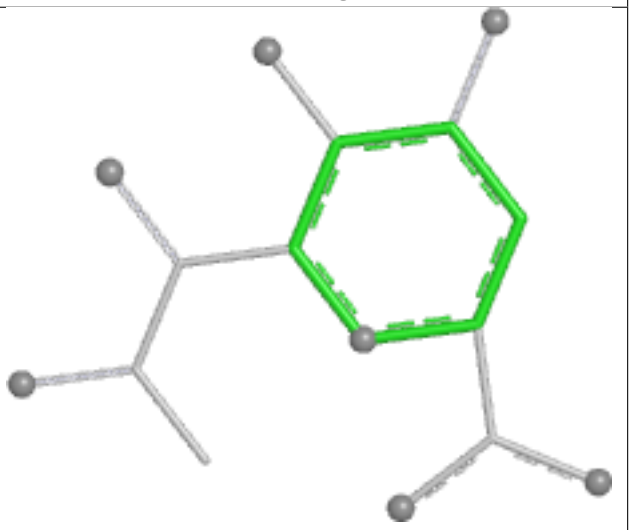
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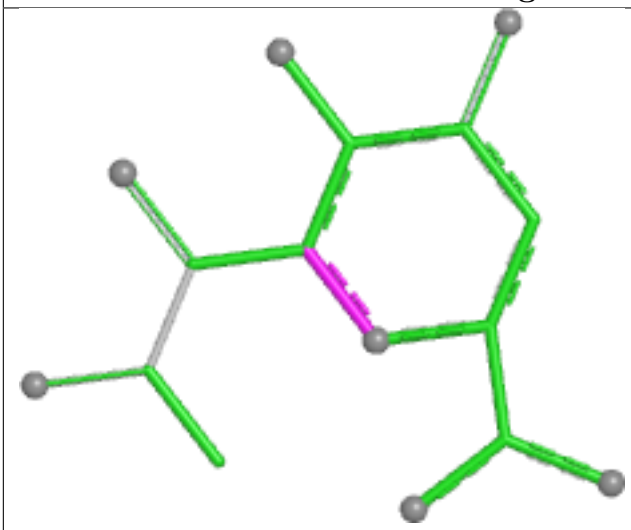


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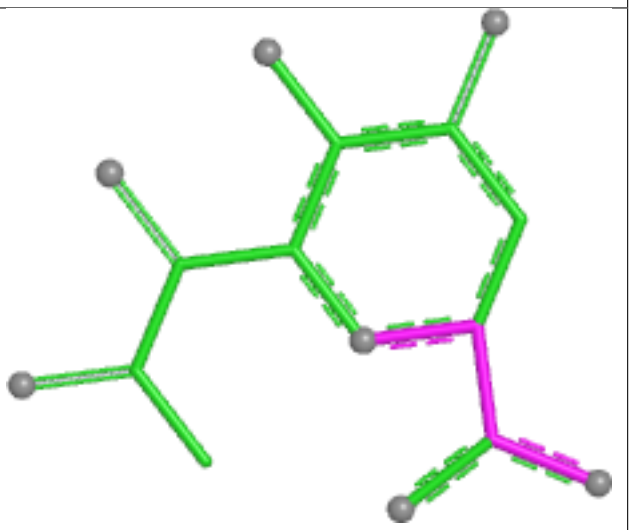


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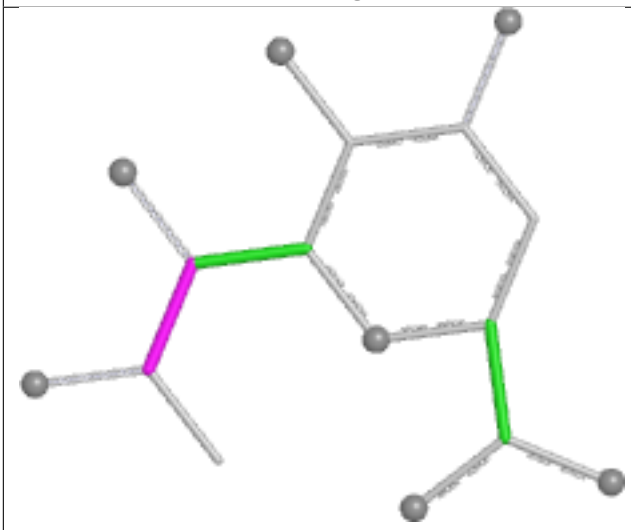
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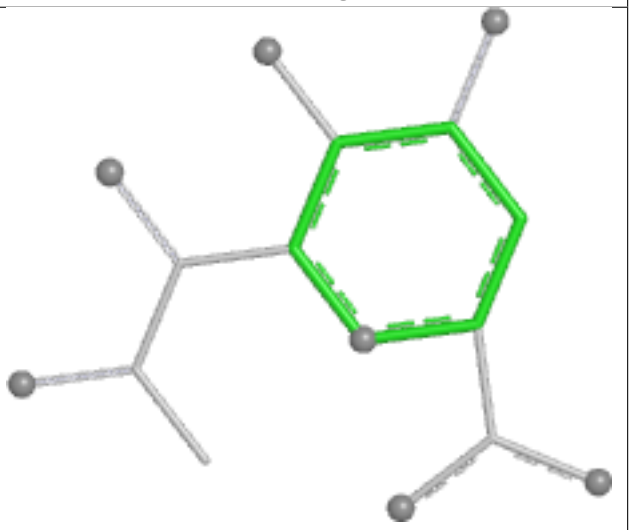
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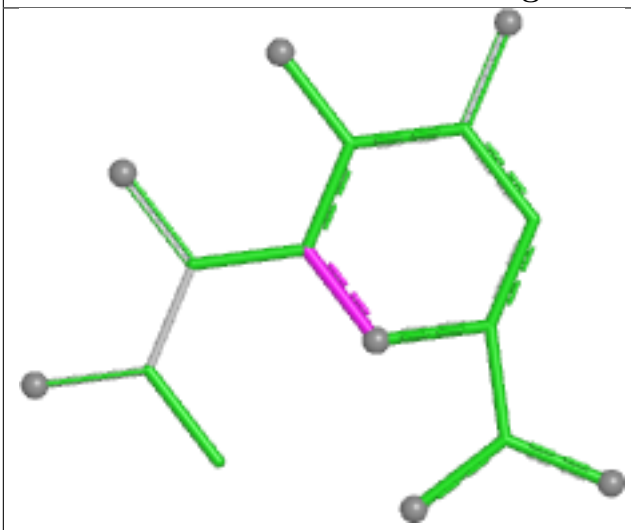


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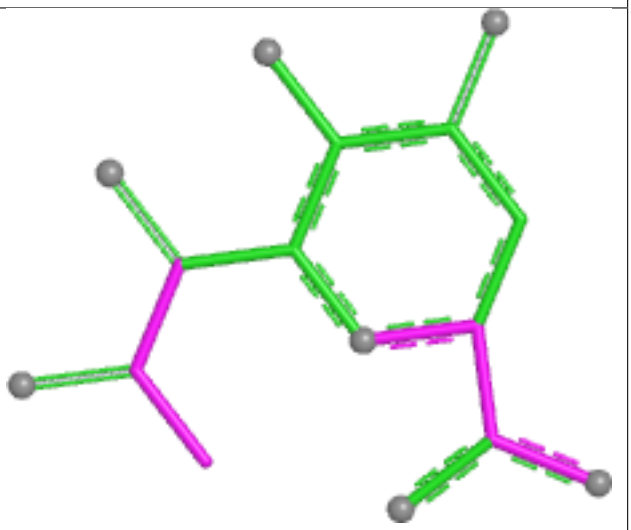


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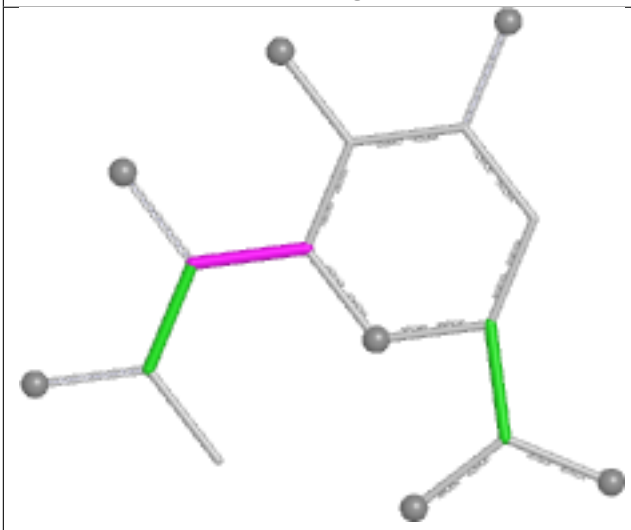
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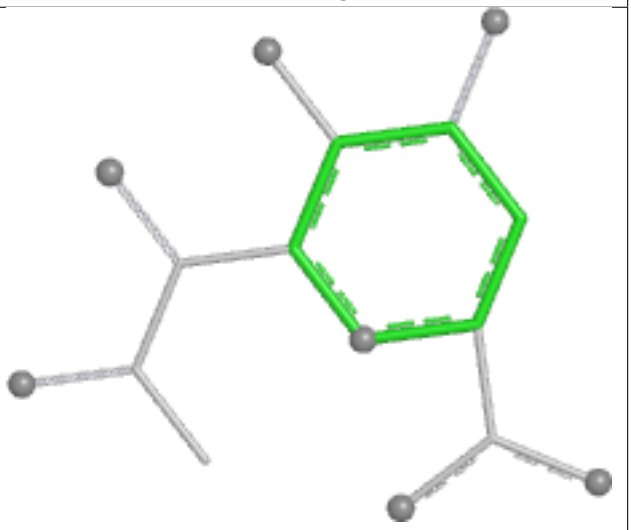
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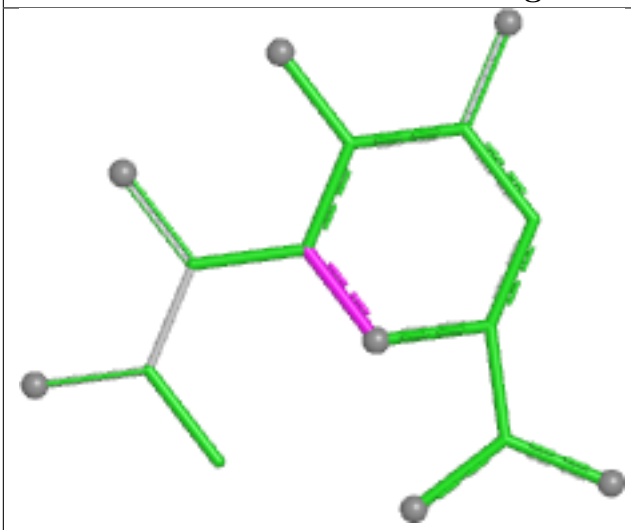


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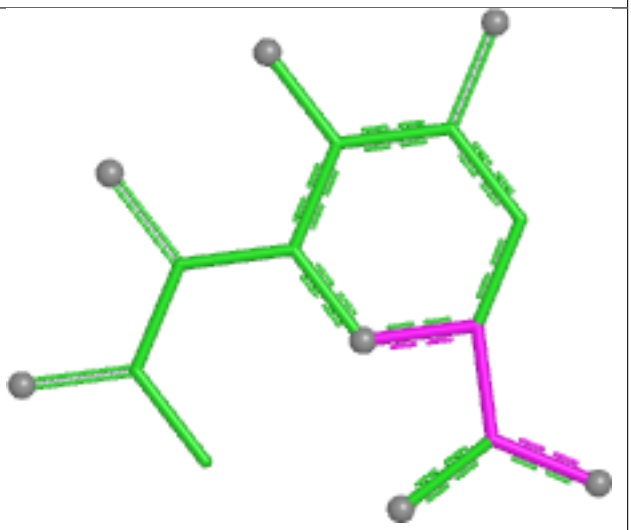


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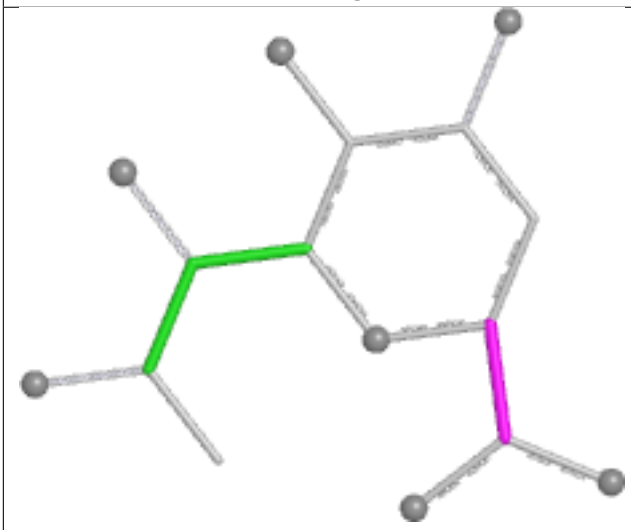
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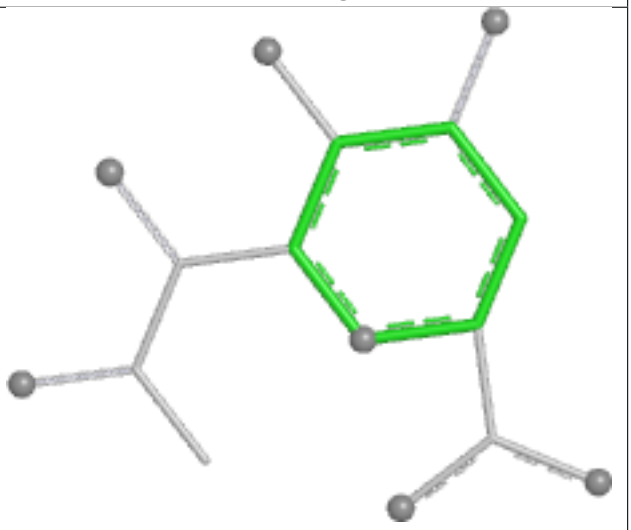
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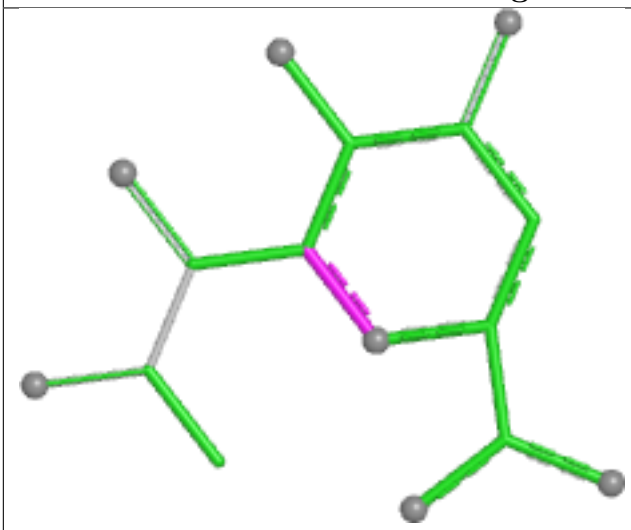


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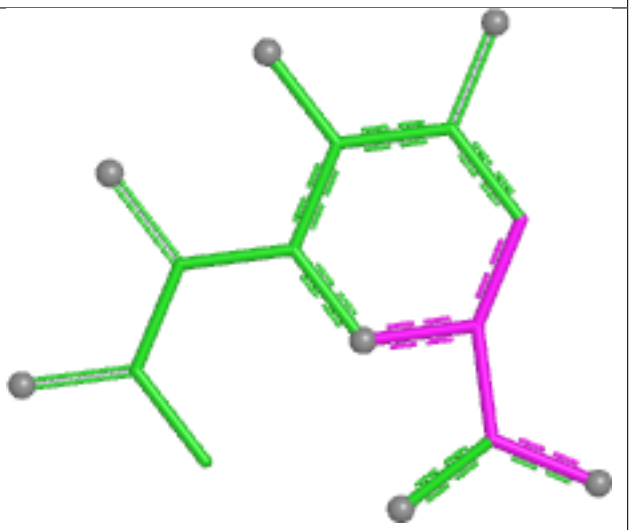


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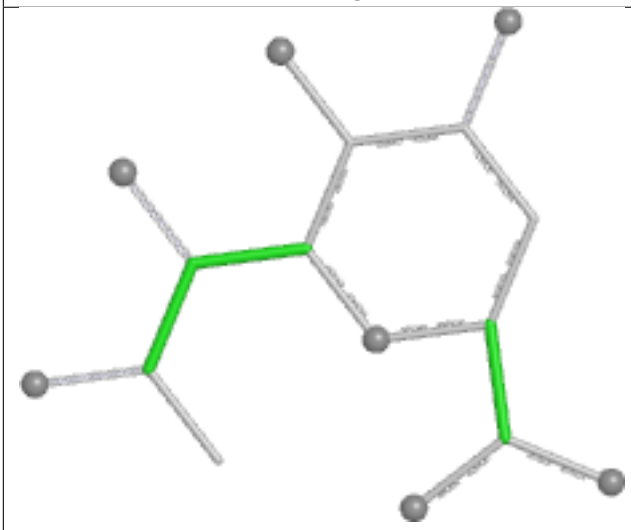
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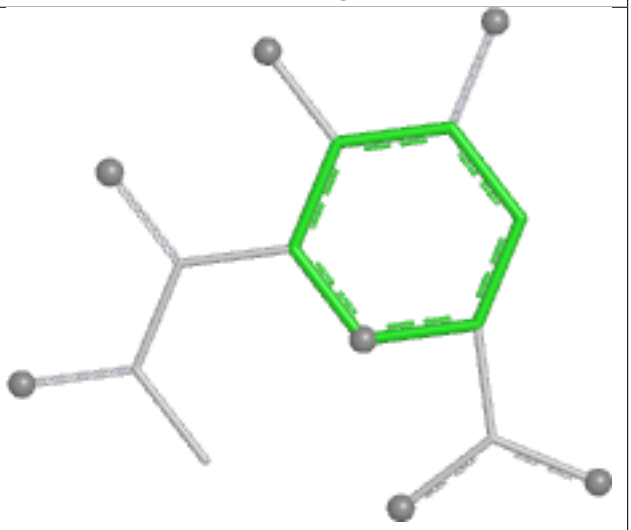
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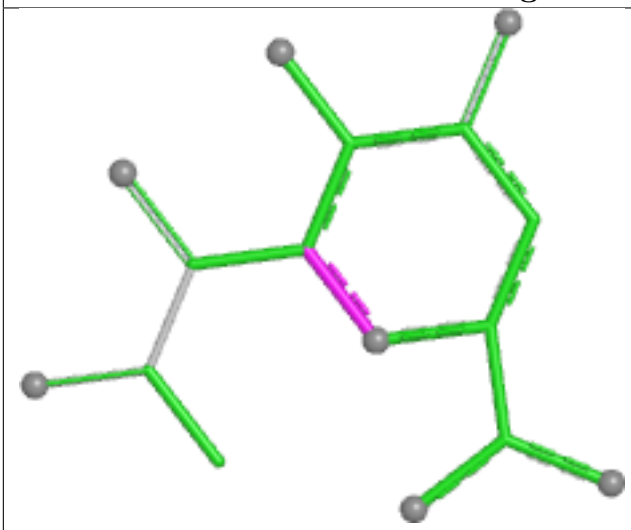


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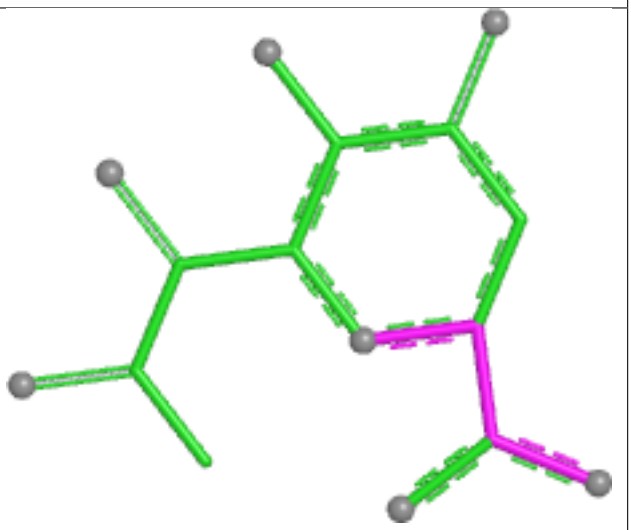


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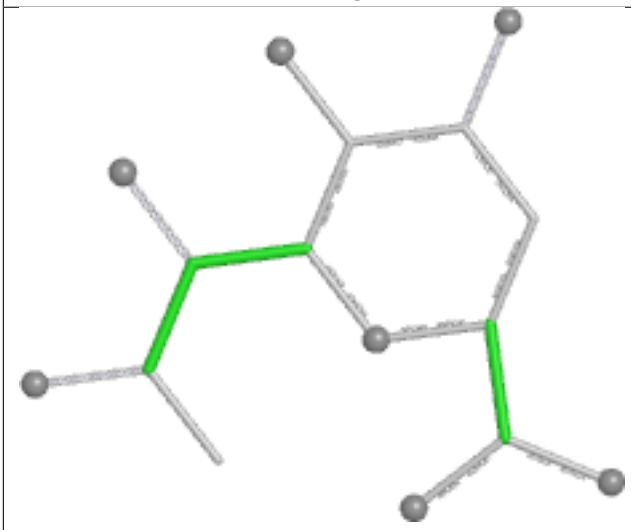
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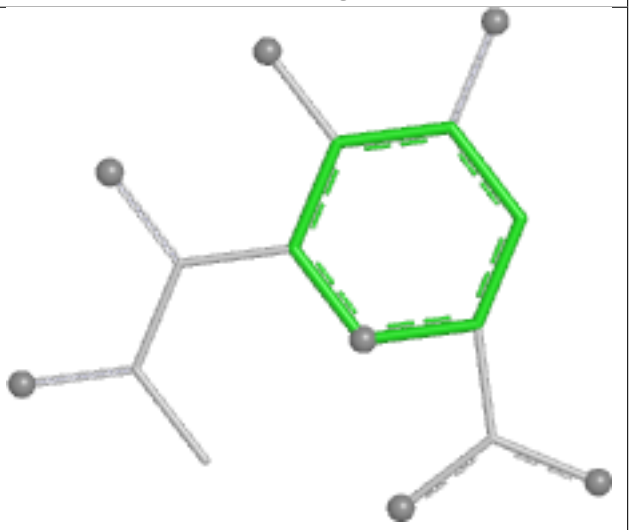
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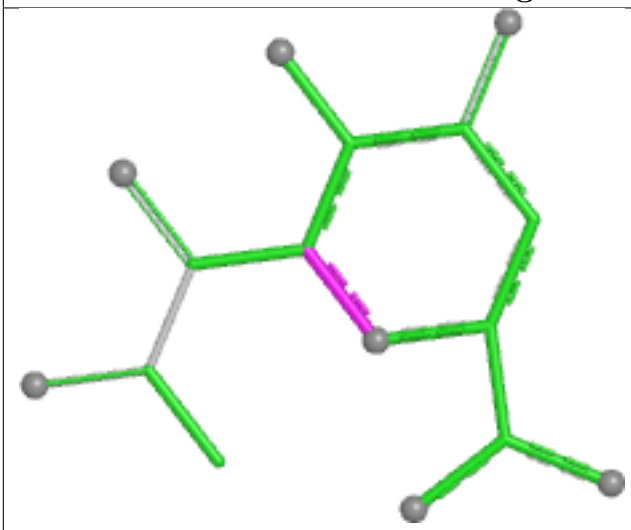


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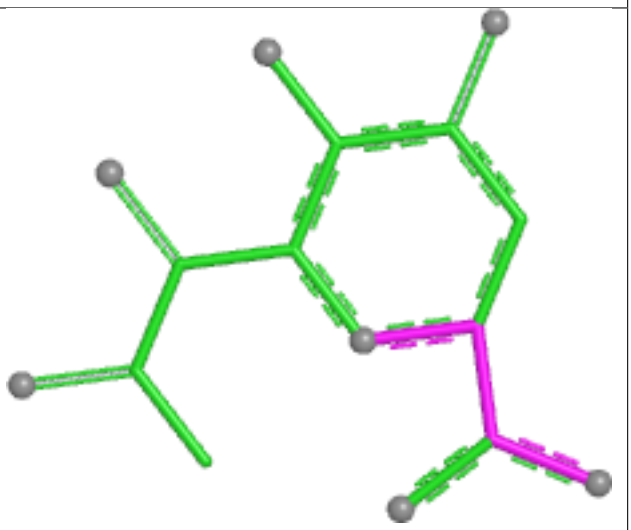


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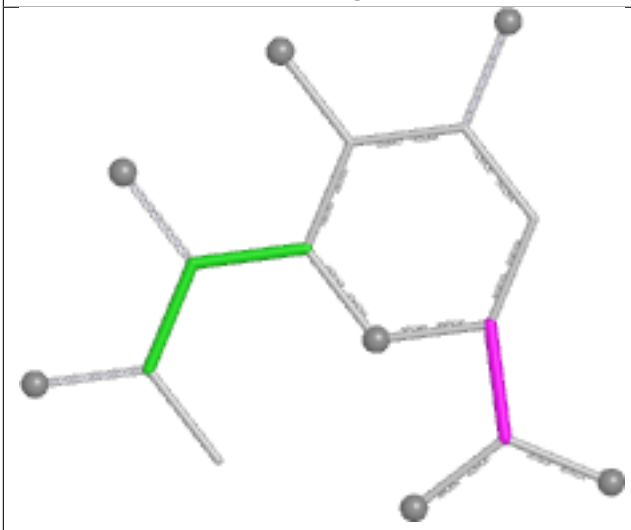
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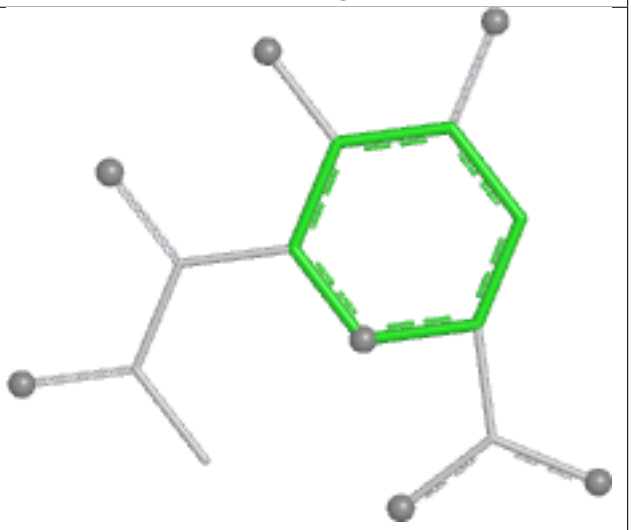
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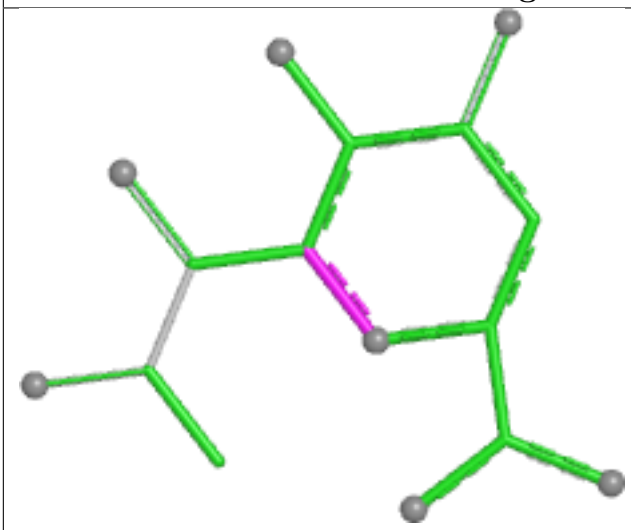


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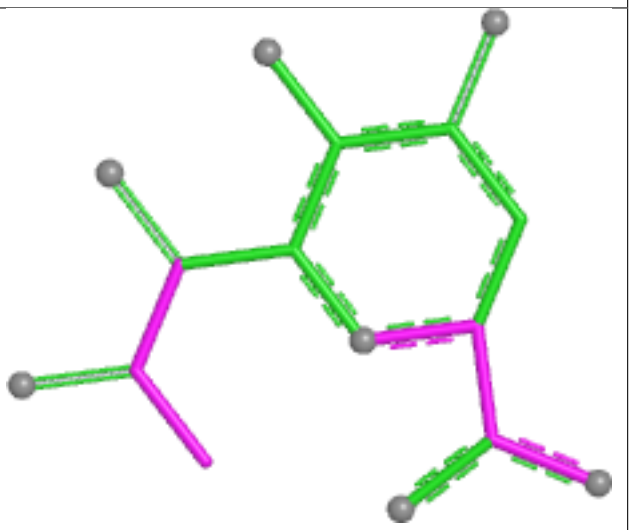


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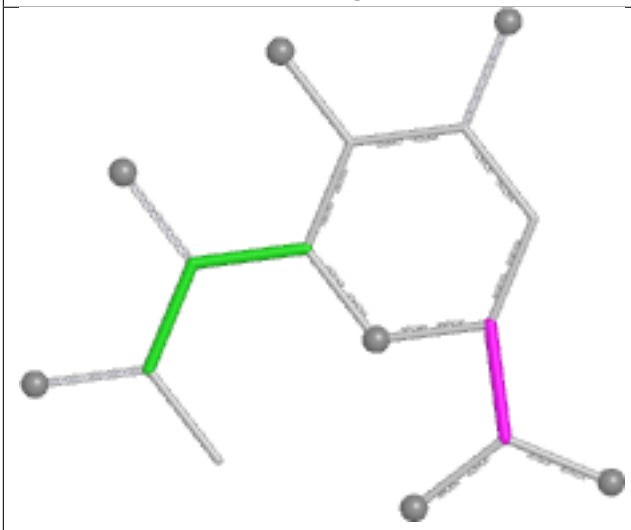
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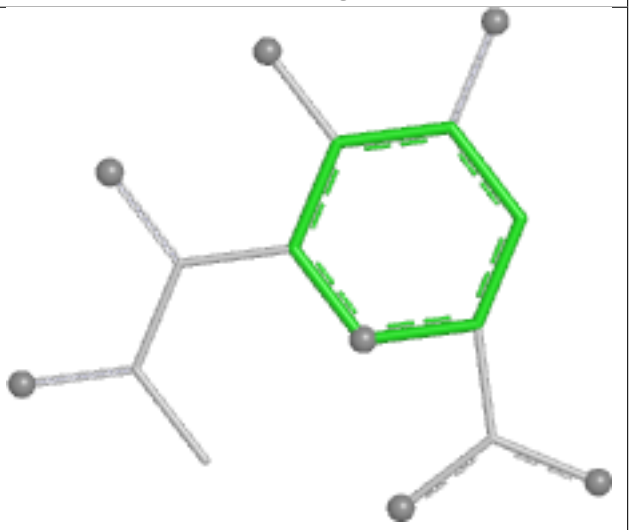
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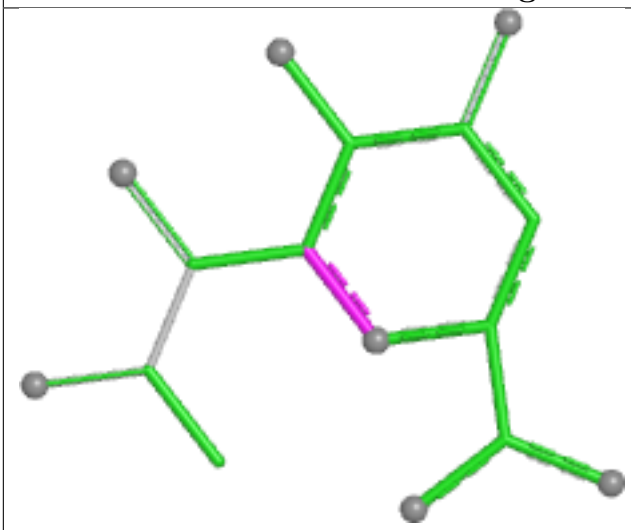


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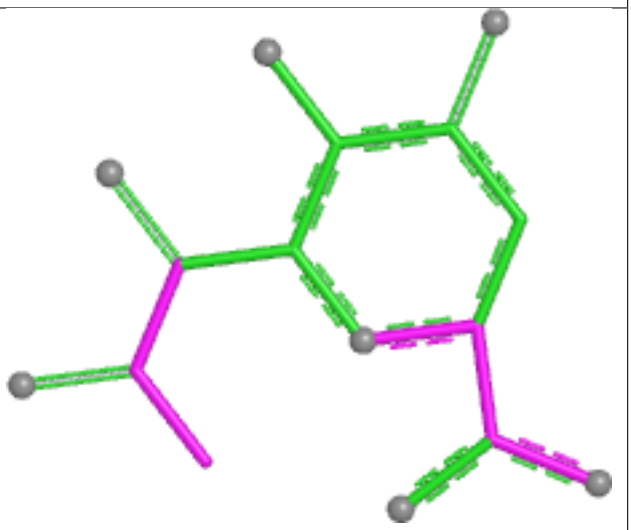


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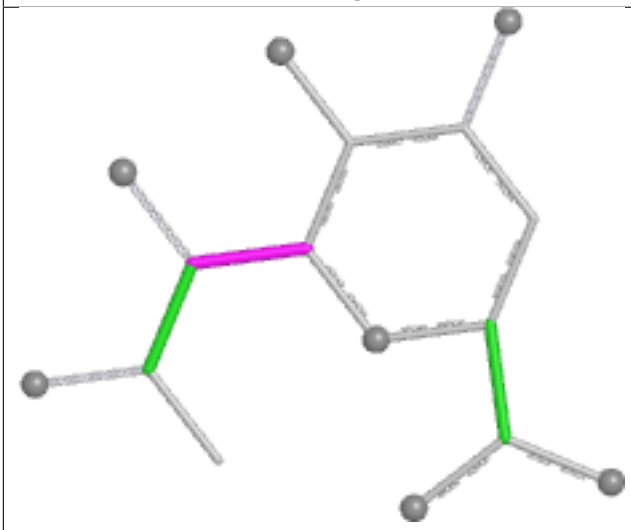
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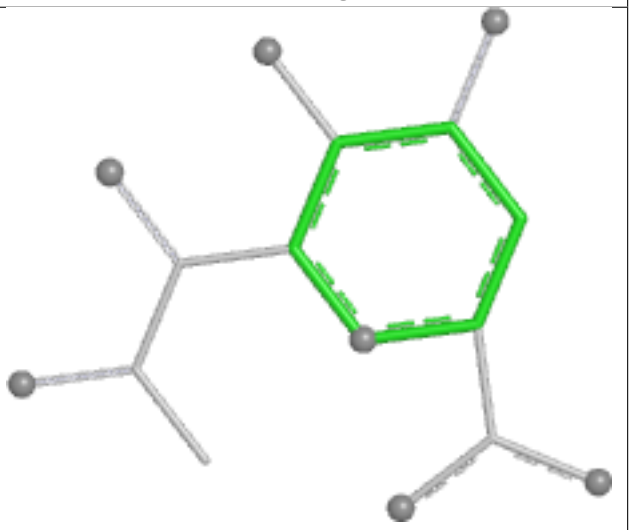
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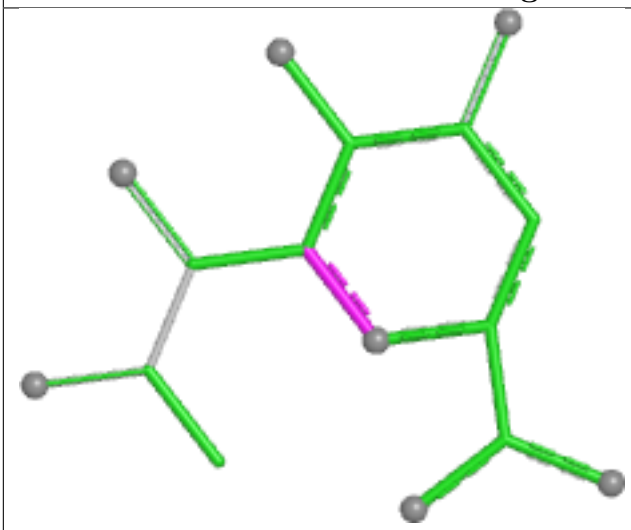


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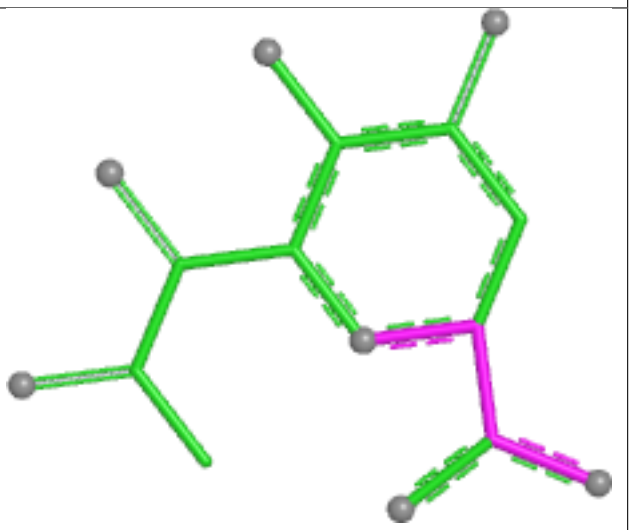


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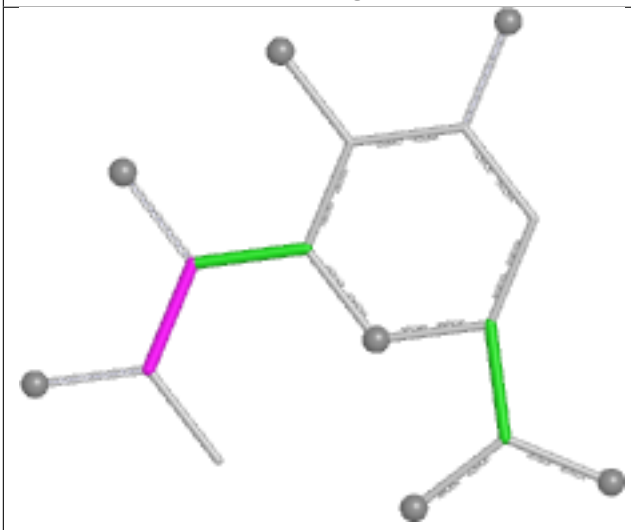
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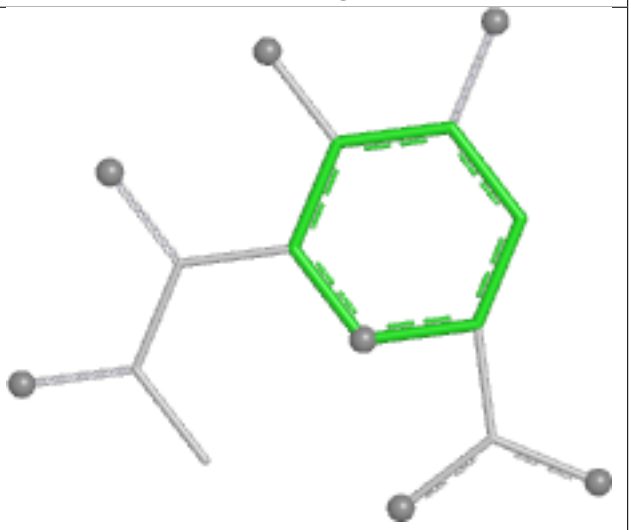
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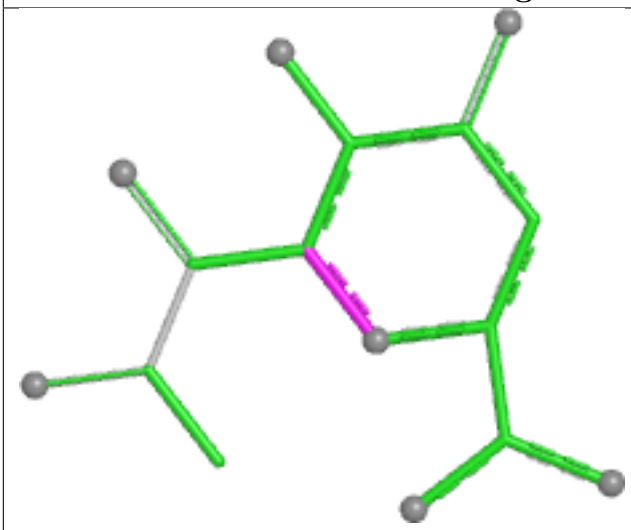


Torsions

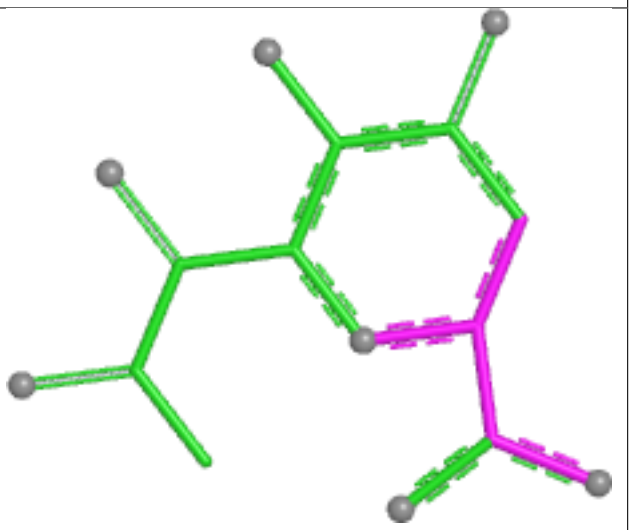


Rings

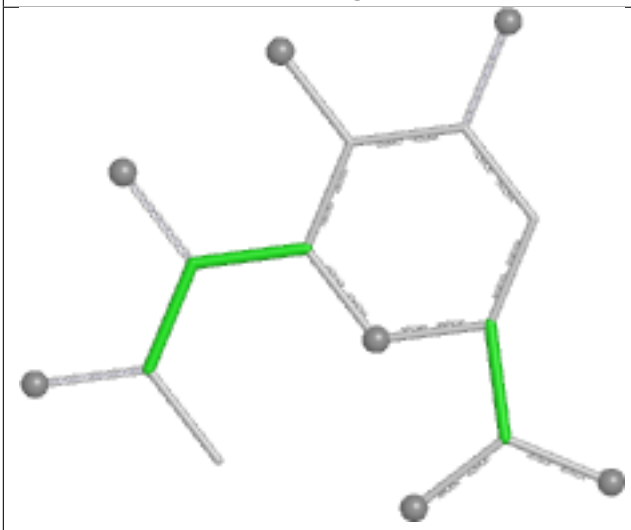
Ligand P8E OA 603



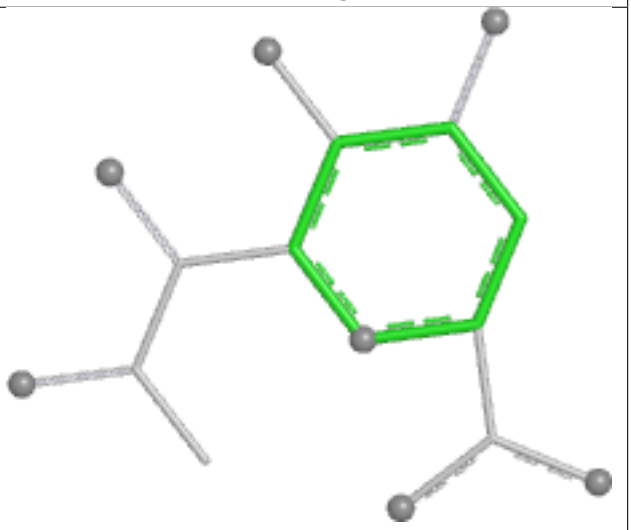
Bond lengths



Bond angles

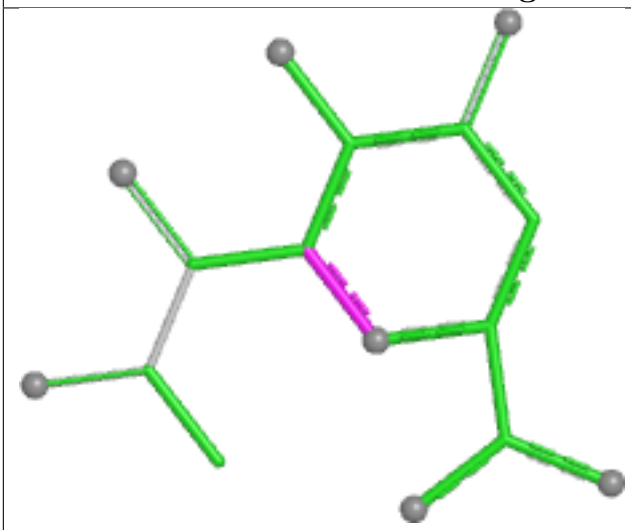


Torsions

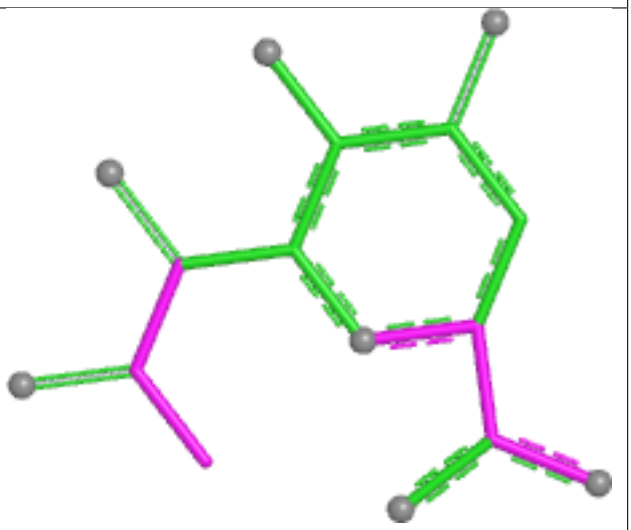


Rings

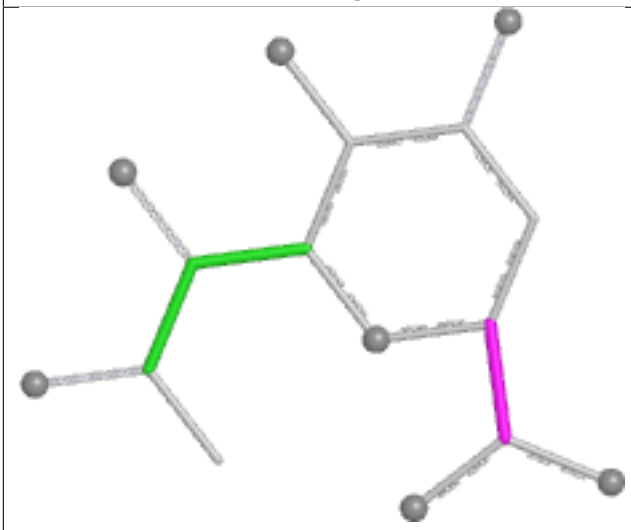
Ligand P8E A7 604



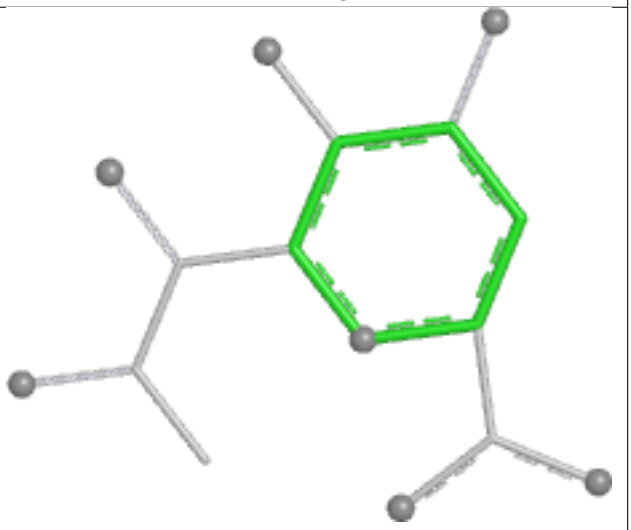
Bond lengths



Bond angles

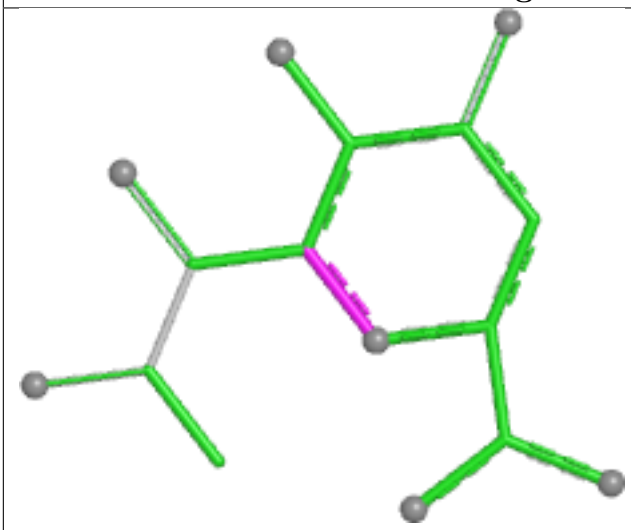


Torsions

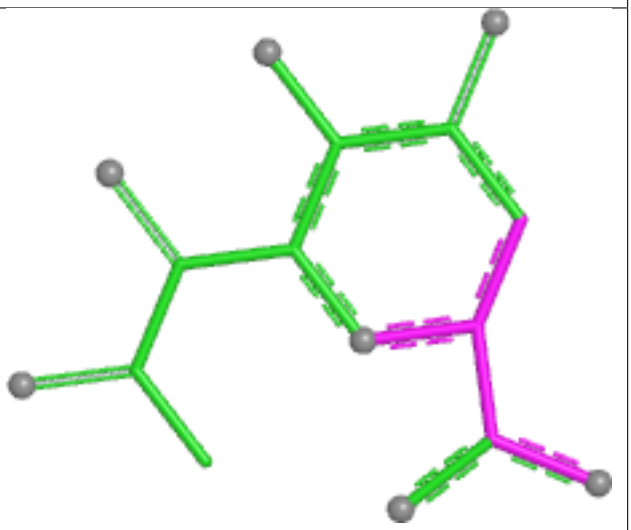


Rings

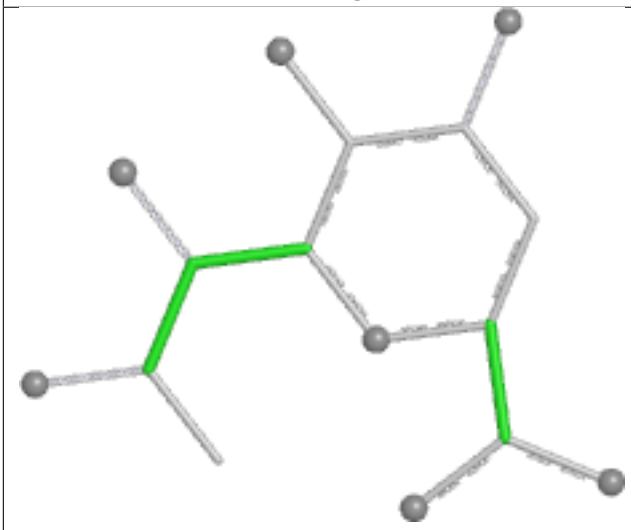
Ligand P8E PU 603



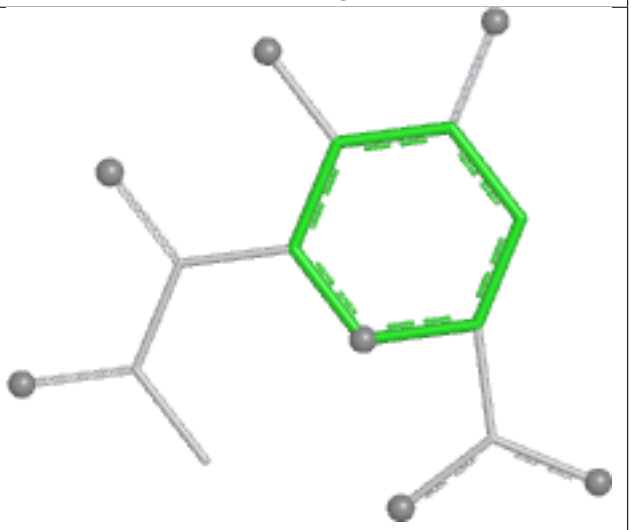
Bond lengths



Bond angles

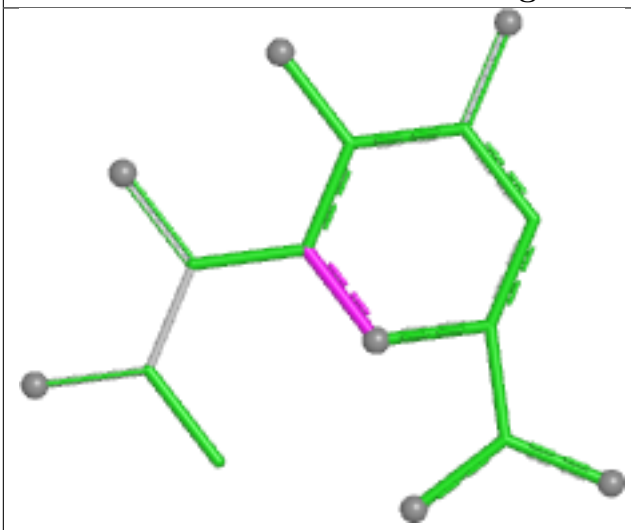


Torsions

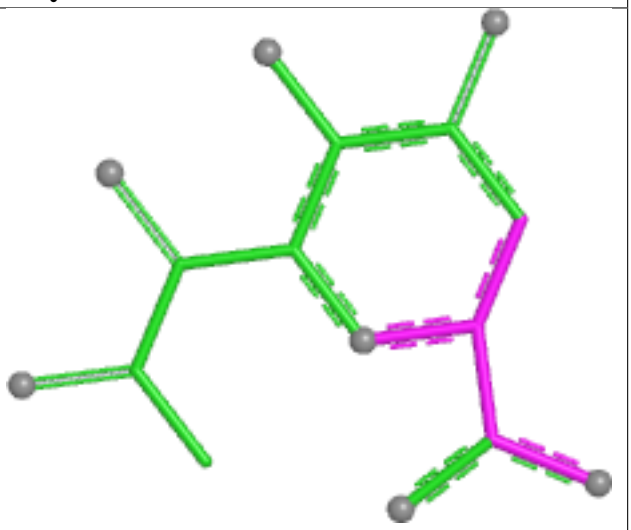


Rings

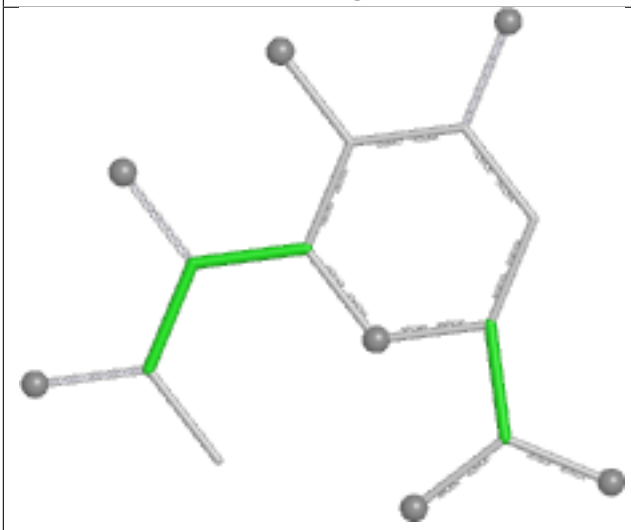
Ligand P8E Q2 603



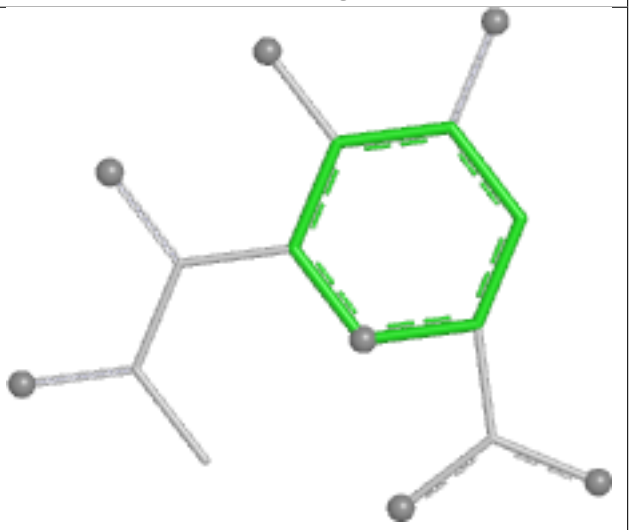
Bond lengths



Bond angles

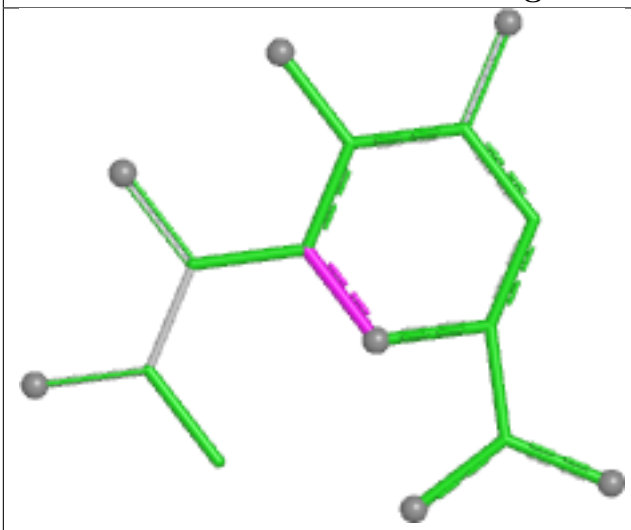


Torsions

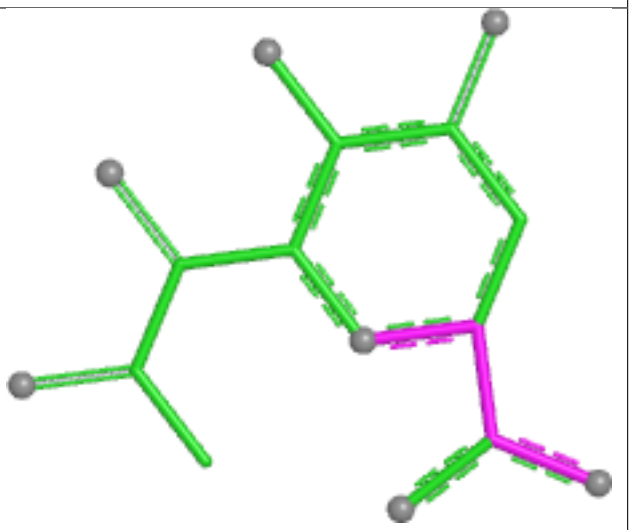


Rings

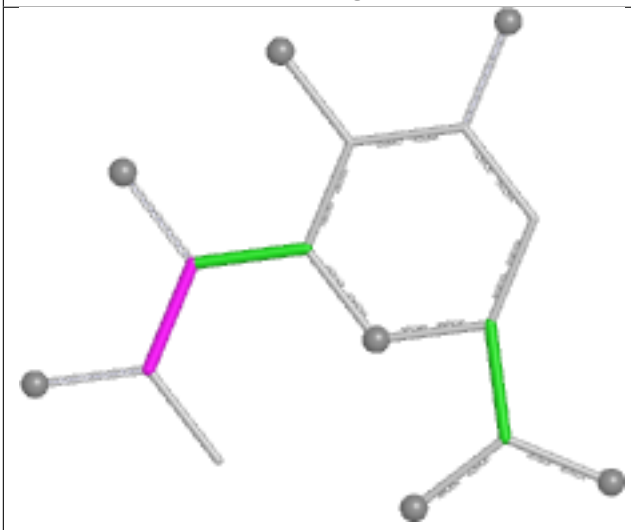
Ligand P8E e8 606



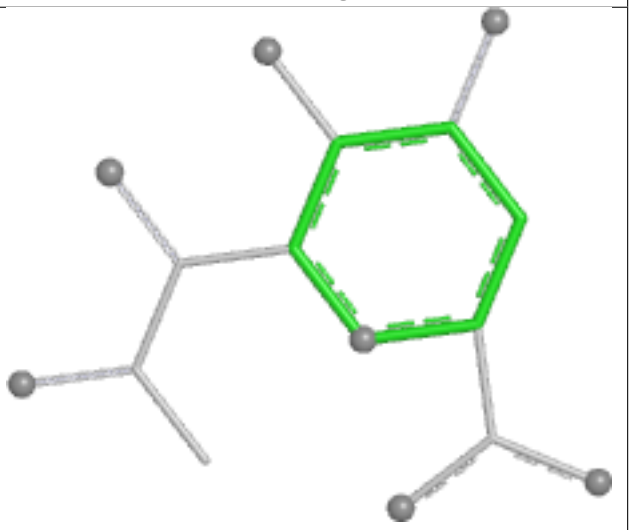
Bond lengths



Bond angles

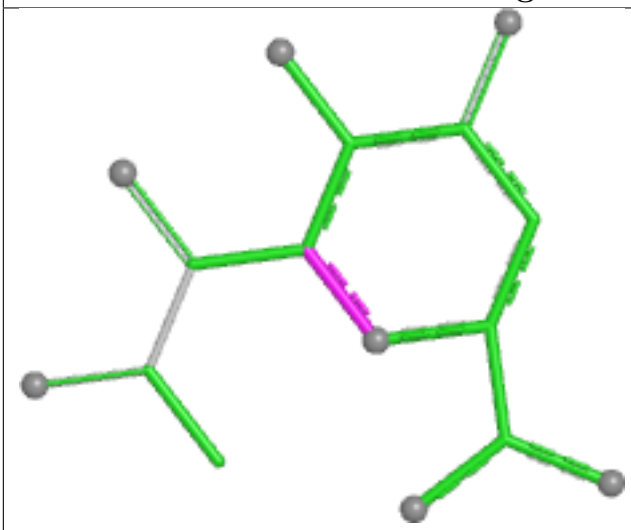


Torsions

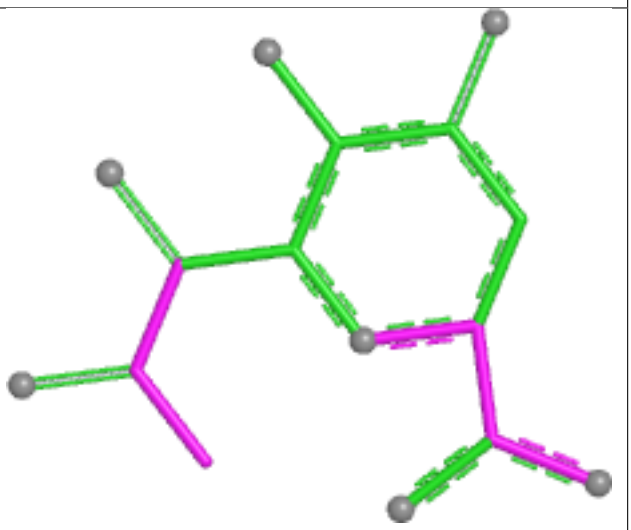


Rings

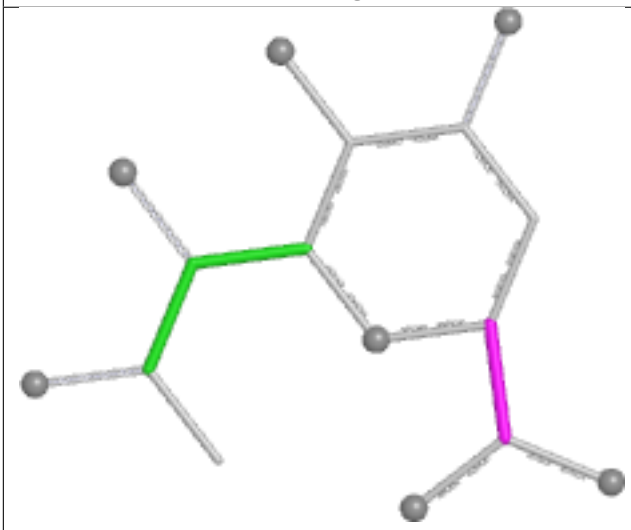
Ligand P8E HL 604



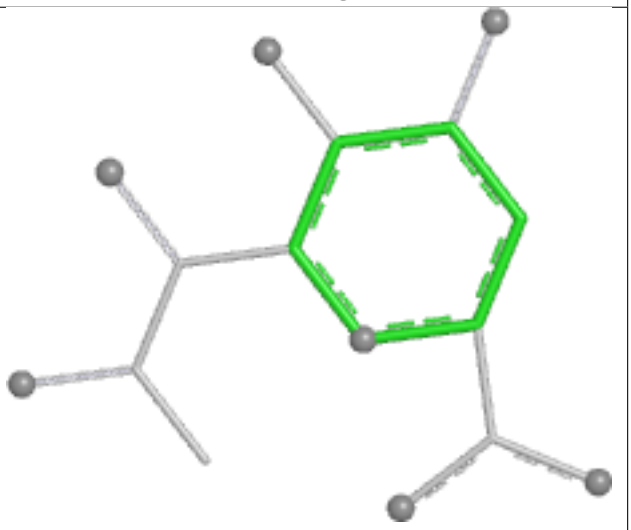
Bond lengths



Bond angles

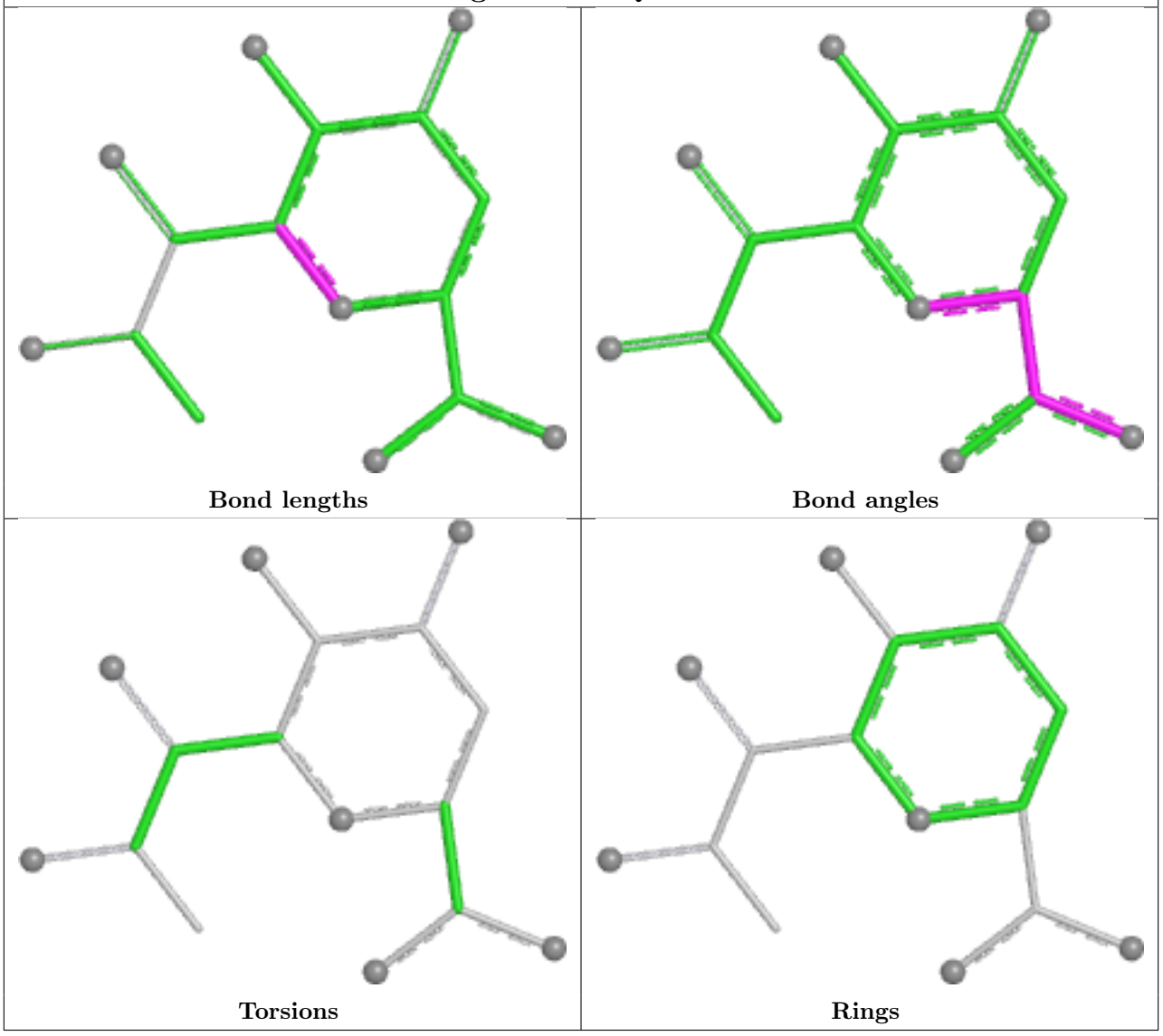


Torsions



Rings

Ligand P8E Q2 602



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.

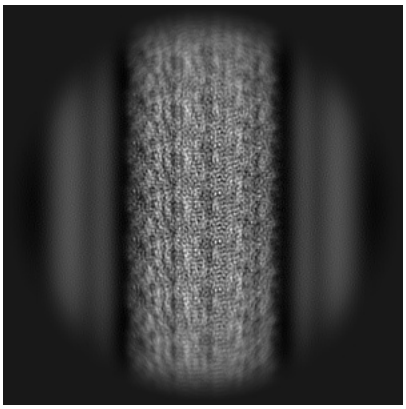
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-72942. These allow visual inspection of the internal detail of the map and identification of artifacts.

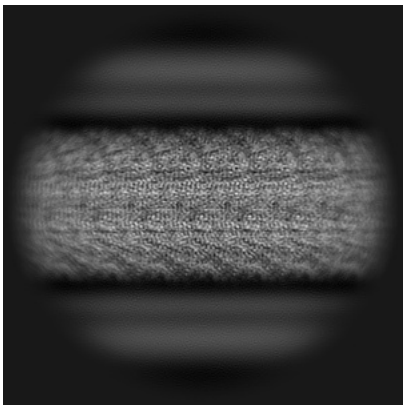
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

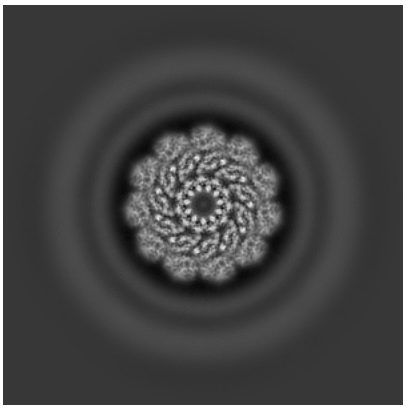
6.1.1 Primary map



X

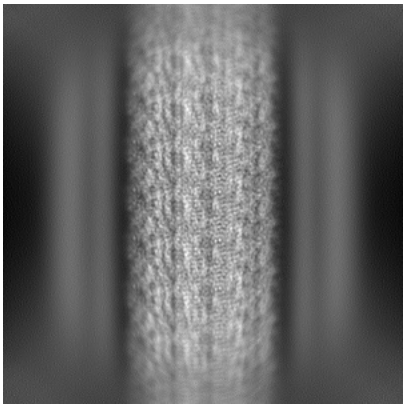


Y

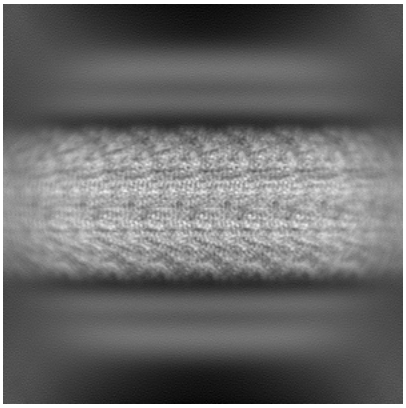


Z

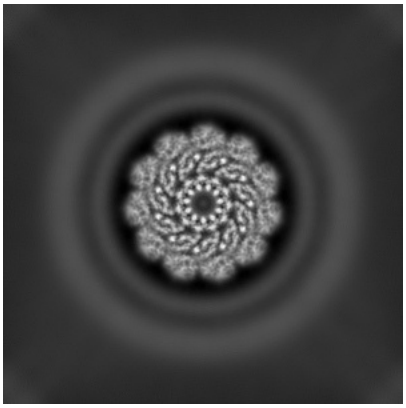
6.1.2 Raw map



X



Y

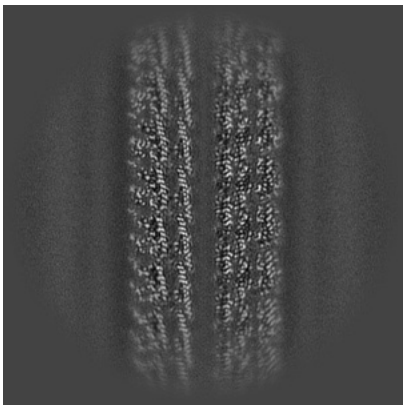


Z

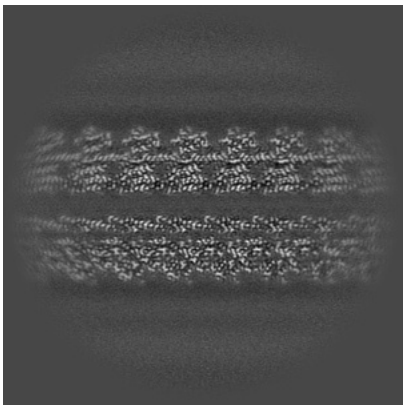
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

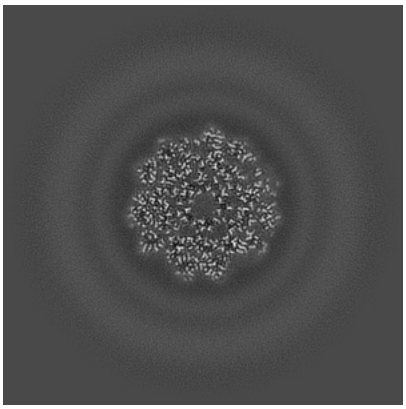
6.2.1 Primary map



X Index: 200

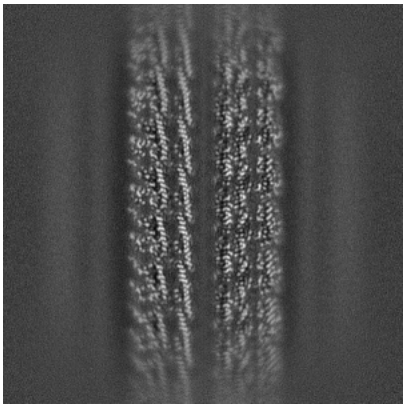


Y Index: 200

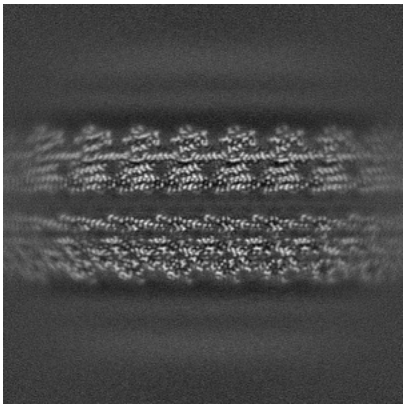


Z Index: 200

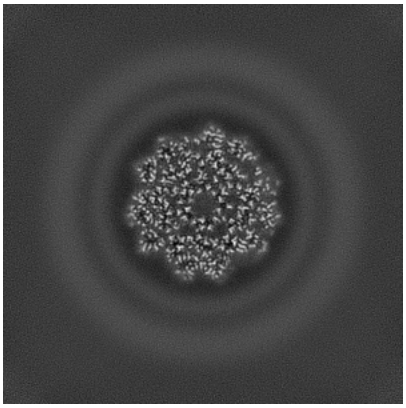
6.2.2 Raw map



X Index: 200



Y Index: 200

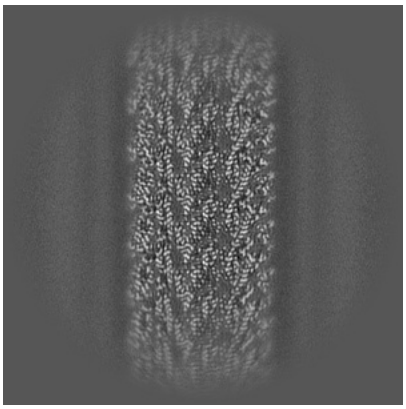


Z Index: 200

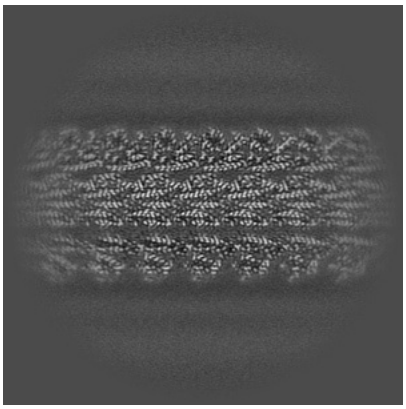
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

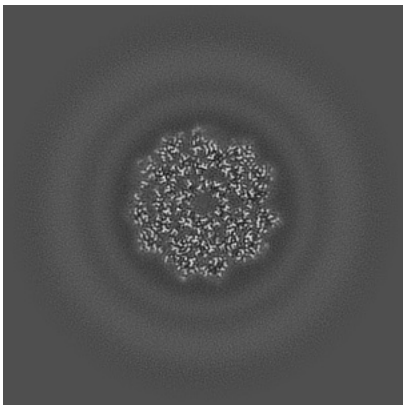
6.3.1 Primary map



X Index: 180

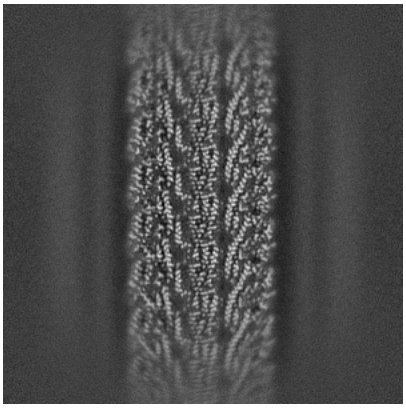


Y Index: 184

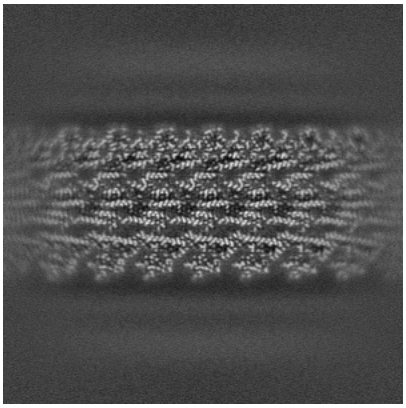


Z Index: 208

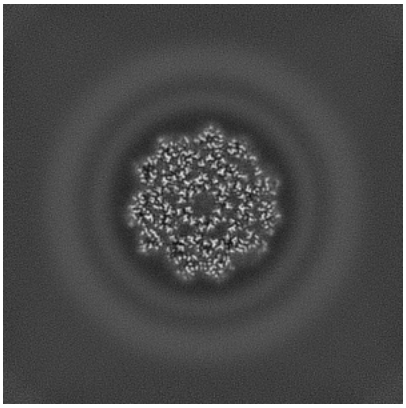
6.3.2 Raw map



X Index: 178



Y Index: 182

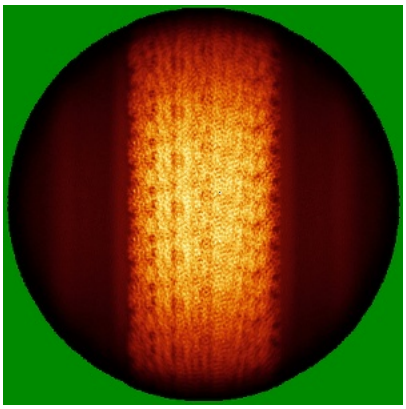


Z Index: 199

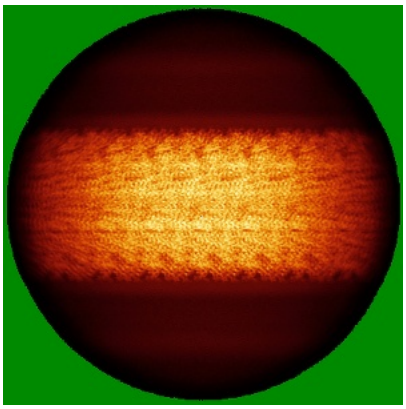
The images above show the largest variance slices of the map in three orthogonal directions.

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

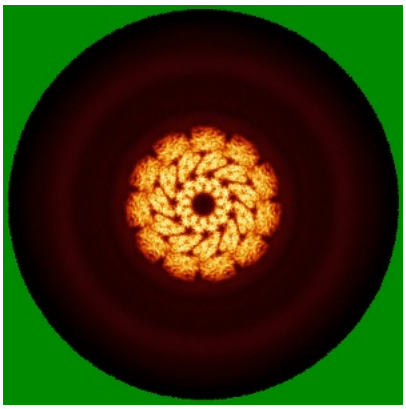
6.4.1 Primary map



X

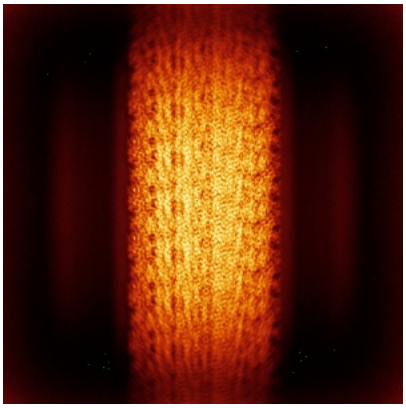


Y

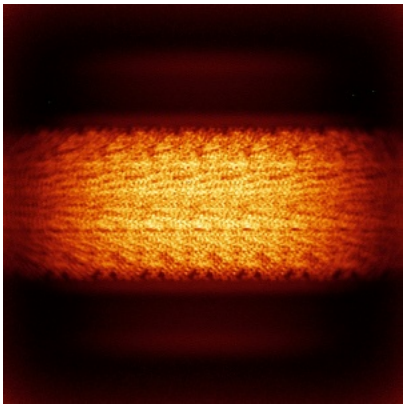


Z

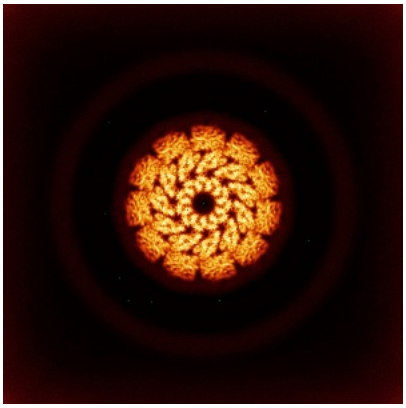
6.4.2 Raw map



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)

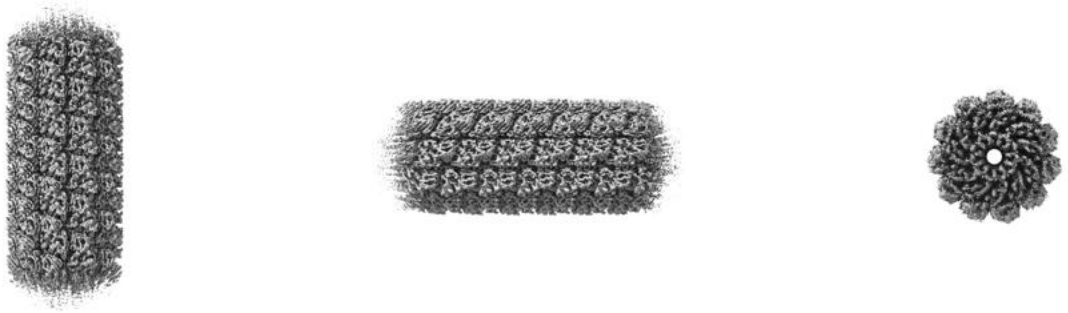
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.111. 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.

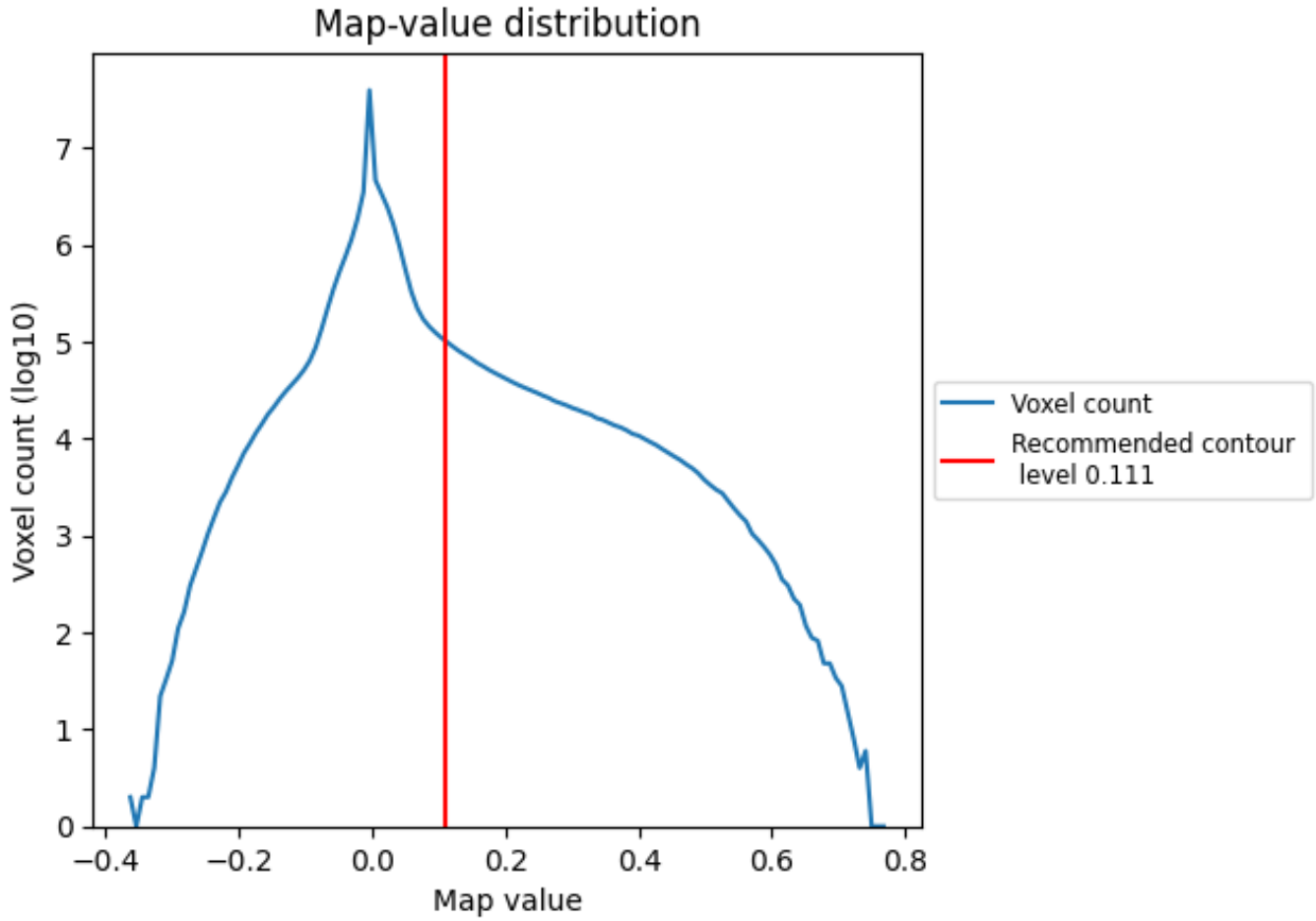
6.6 Mask visualisation (i)

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

7 Map analysis

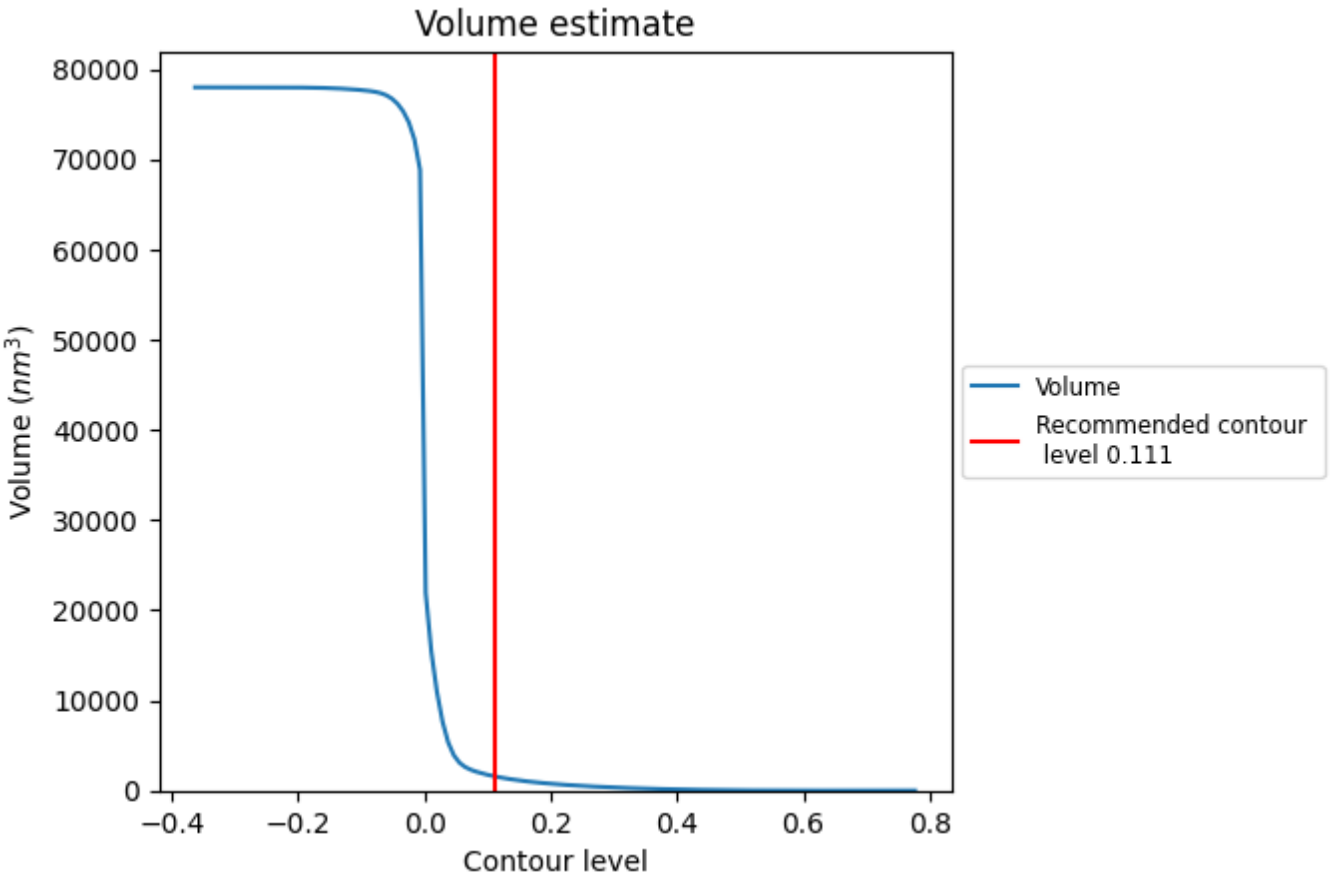
This section contains the results of statistical analysis of the map.

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.

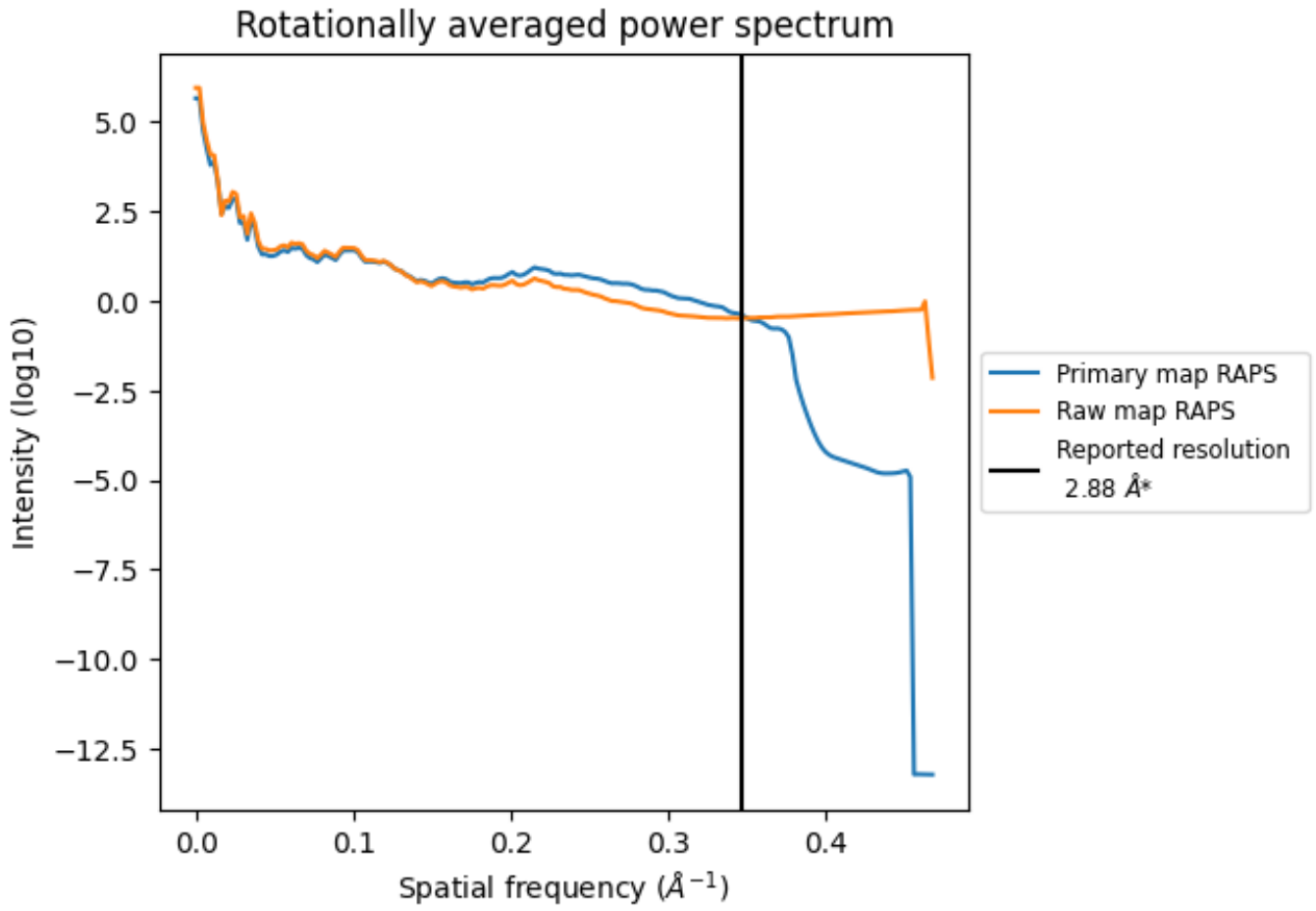
7.2 Volume estimate



The volume at the recommended contour level is 1578 nm^3; this corresponds to an approximate mass of 1426 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)

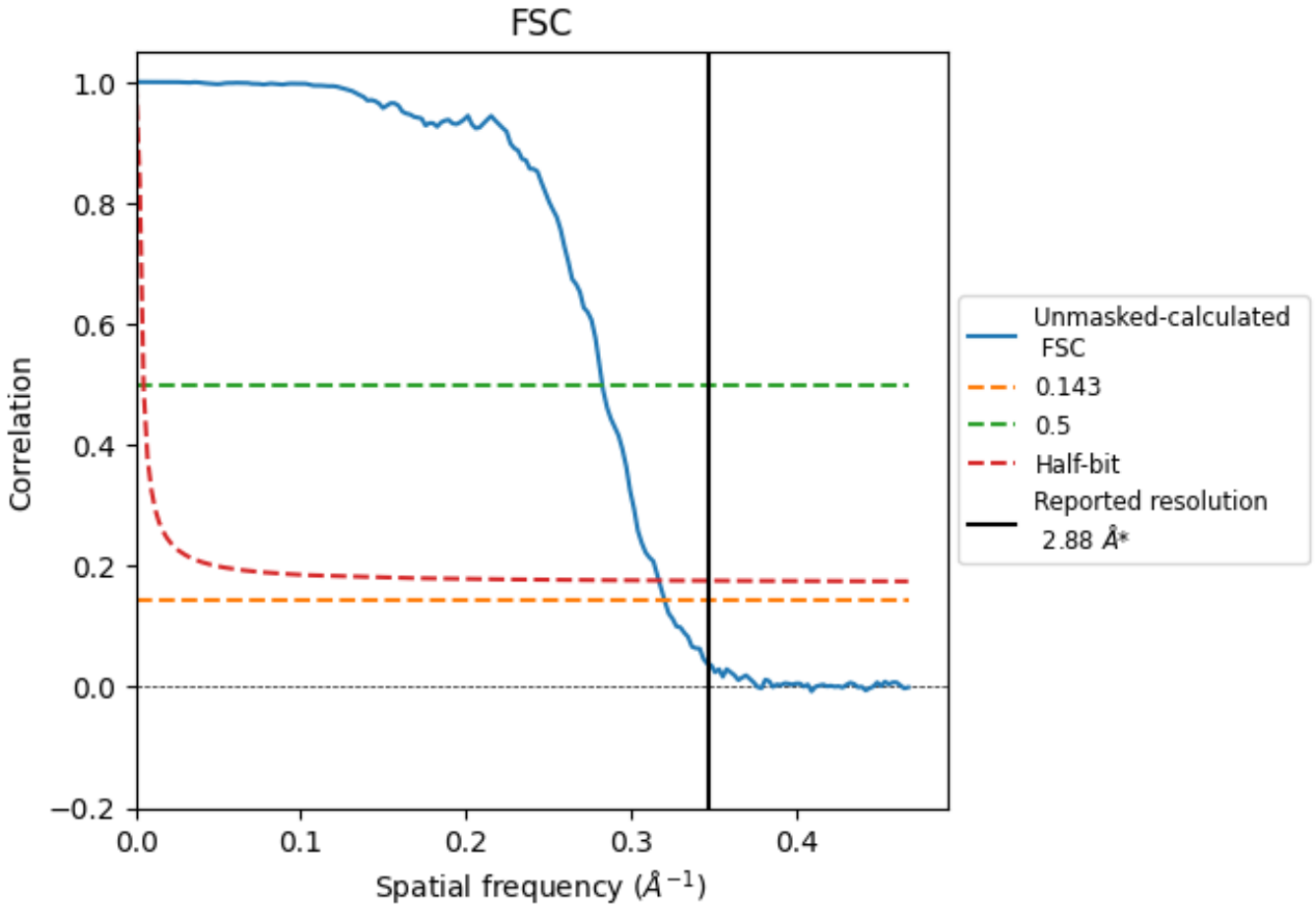


*Reported resolution corresponds to spatial frequency of 0.347 $Å^{-1}$

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 0.347 Å^{-1}

8.2 Resolution estimates (i)

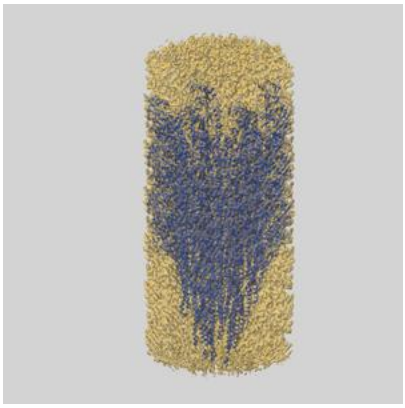
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.88	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.12	3.54	3.15

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

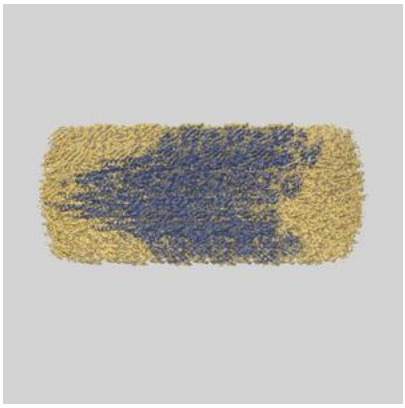
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-72942 and PDB model 9YGU. Per-residue inclusion information can be found in section 3 on page 20.

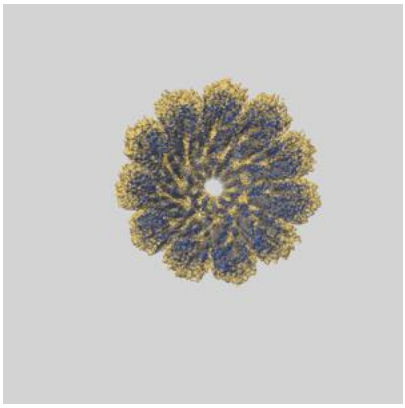
9.1 Map-model overlay



X



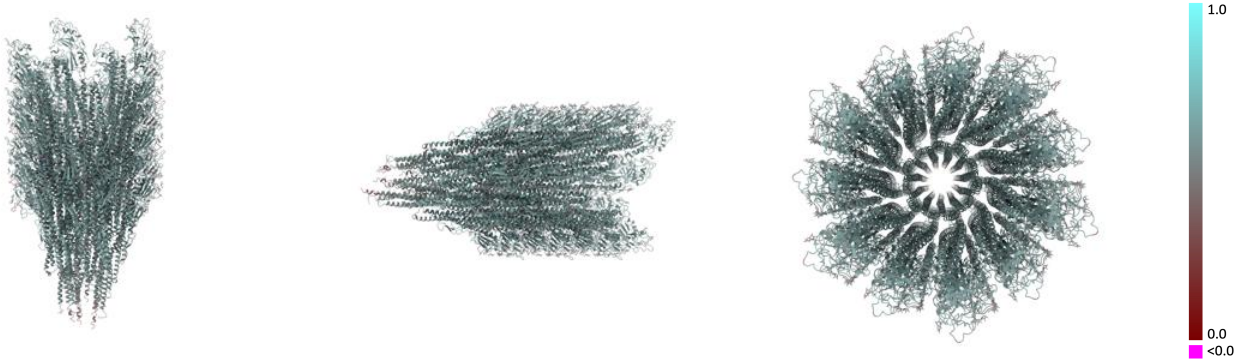
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.111 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.

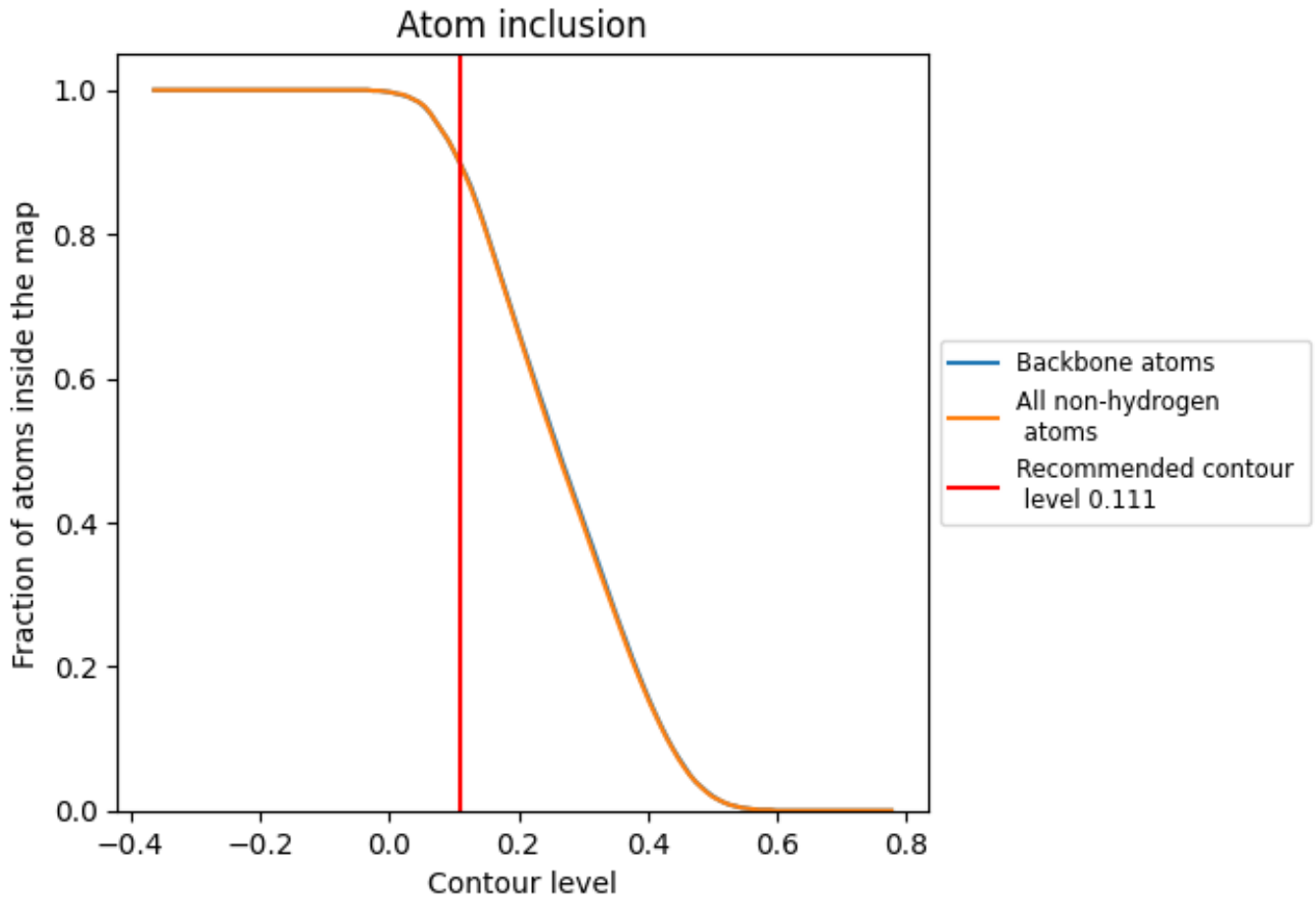
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.111).

9.4 Atom inclusion (i)



At the recommended contour level, 90% of all backbone atoms, 90% 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 (0.111) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8960	0.5770
A7	0.8830	0.5730
BJ	0.9120	0.5840
CT	0.9010	0.5780
DN	0.8880	0.5710
EX	0.9120	0.5840
FB	0.9030	0.5800
GQ	0.9090	0.5840
HL	0.9030	0.5800
I3	0.8490	0.5550
JD	0.8910	0.5730
KE	0.9120	0.5850
LF	0.8980	0.5800
MO	0.9130	0.5840
NI	0.9050	0.5810
OA	0.8590	0.5600
PU	0.8950	0.5750
Q2	0.9130	0.5840
R4	0.8970	0.5780
S5	0.9080	0.5830
TP	0.9080	0.5810
UH	0.8680	0.5620
VR	0.8960	0.5770
WG	0.9120	0.5840
XM	0.8880	0.5760
Y1	0.9060	0.5800
Z9	0.9080	0.5810
aW	0.8740	0.5650
bS	0.8990	0.5770
cV	0.9130	0.5840
dC	0.8900	0.5740
e8	0.9040	0.5800
fK	0.9110	0.5810
g6	0.8790	0.5670

