



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 06:55 PM UTC

PDB ID : 9NTE / pdb_00009nte
Title : Helix pomatia AMP deaminase (HPAMPD) apoenzyme
Authors : Kaur, G.; Horton, J.R.; Cheng, X.
Deposited on : 2025-03-18
Resolution : 1.75 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

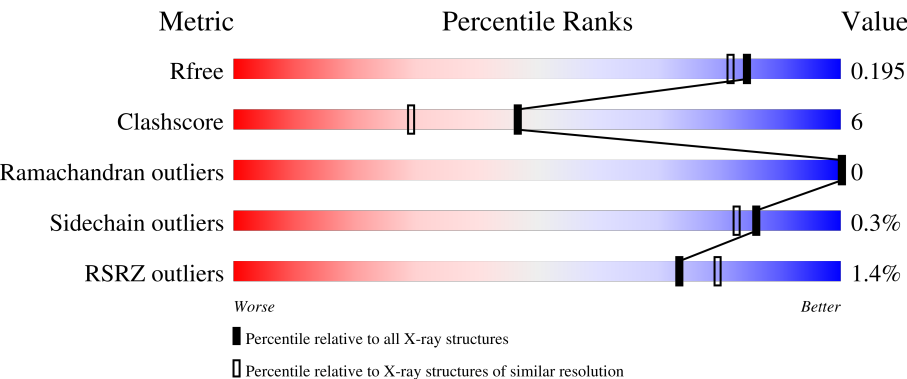
MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

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

The reported resolution of this entry is 1.75 Å.

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



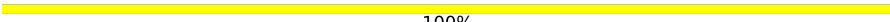
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	3183 (1.76-1.76)
Clashscore	190562	3299 (1.76-1.76)
Ramachandran outliers	187476	3274 (1.76-1.76)
Sidechain outliers	187428	3274 (1.76-1.76)
RSRZ outliers	180081	3183 (1.76-1.76)

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

Mol	Chain	Length	Quality of chain
1	A	541	0.5% 82% 10% 8%
1	B	541	0.5% 85% 8% 7%
1	C	541	2% 83% 8% 8%
1	D	541	0.5% 85% 6% 8%
2	E	2	100%

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Mol	Chain	Length	Quality of chain
2	F	2	 100%

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
3	EDO	A	624	-	-	X	-
3	EDO	A	627	-	-	X	-
3	EDO	C	630	-	-	X	-
3	EDO	D	626	-	-	X	-
6	GOL	C	602	-	-	X	-
6	GOL	C	603	-	-	X	-
6	GOL	C	624	-	-	X	-
6	GOL	C	631	-	-	X	-
7	PEG	A	646	-	-	X	-
7	PEG	C	627	-	-	X	-
9	PGE	B	643	-	-	X	-

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 19110 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Helix pomatia AMP deaminase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	497	Total	C	N	O	S	0	6	0
			4025	2577	683	753	12			
1	B	505	Total	C	N	O	S	0	10	0
			4102	2628	697	765	12			
1	C	496	Total	C	N	O	S	0	9	0
			4036	2584	685	755	12			
1	D	497	Total	C	N	O	S	0	4	0
			4012	2570	681	749	12			

- Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	E	2	Total	C	N	O	0	0	0
			29	16	2	11			
2	F	2	Total	C	N	O	0	0	0
			29	16	2	11			

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	B	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0

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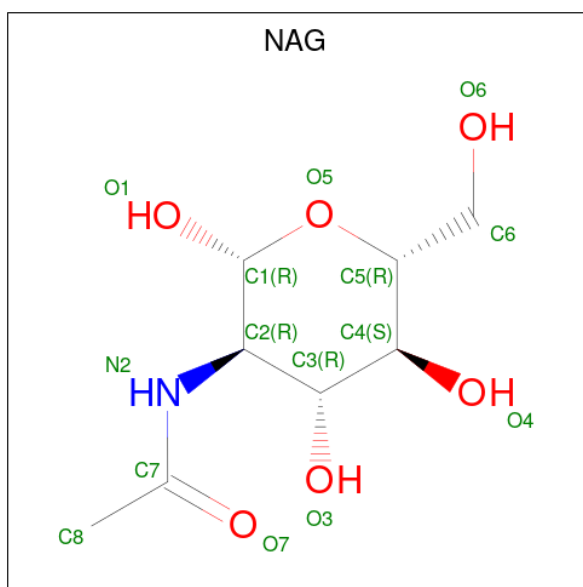
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	C	1	Total 4	C 2	O 2	0	0
3	D	1	Total 4	C 2	O 2	0	0
3	D	1	Total 4	C 2	O 2	0	0
3	D	1	Total 4	C 2	O 2	0	0

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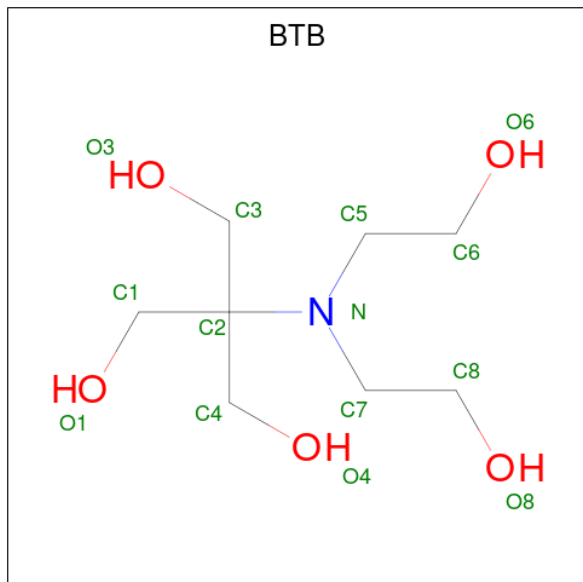
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



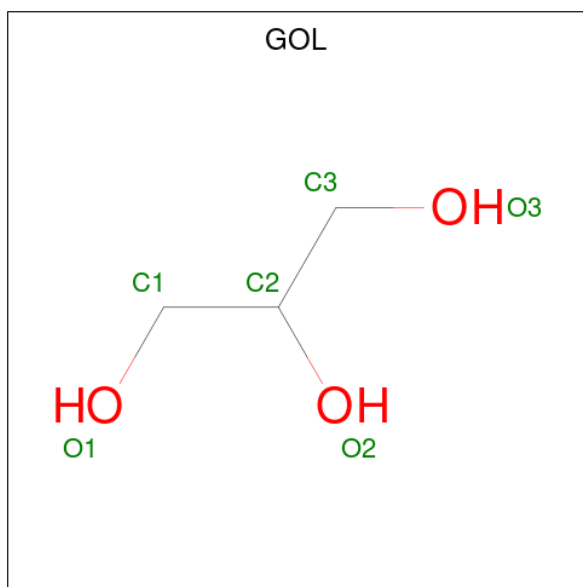
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			14	8	1	5		
4	A	1	Total	C	N	O	0	0
			14	8	1	5		
4	A	1	Total	C	N	O	0	0
			14	8	1	5		
4	B	1	Total	C	N	O	0	0
			14	8	1	5		
4	B	1	Total	C	N	O	0	0
			14	8	1	5		
4	B	1	Total	C	N	O	0	0
			14	8	1	5		
4	B	1	Total	C	N	O	0	0
			15	8	1	6		
4	C	1	Total	C	N	O	0	0
			14	8	1	5		
4	C	1	Total	C	N	O	0	0
			14	8	1	5		
4	D	1	Total	C	N	O	0	0
			14	8	1	5		
4	D	1	Total	C	N	O	0	0
			14	8	1	5		
4	D	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 5 is 2-[BIS-(2-HYDROXY-ETHYL)-AMINO]-2-HYDROXYMETHYL-PROPAN E-1,3-DIOL (CCD ID: BTB) (formula: $C_8H_{19}NO_5$).



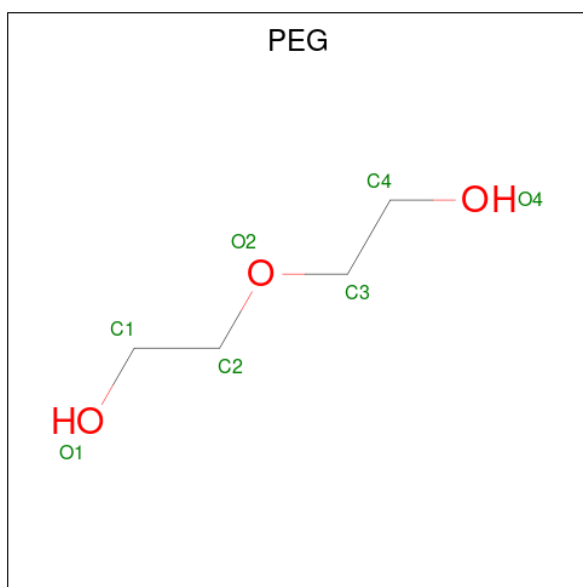
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			14	8	1	5		
5	B	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 7 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



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

- Molecule 8 is ZINC ION (CCD ID: ZN) (formula: Zn).

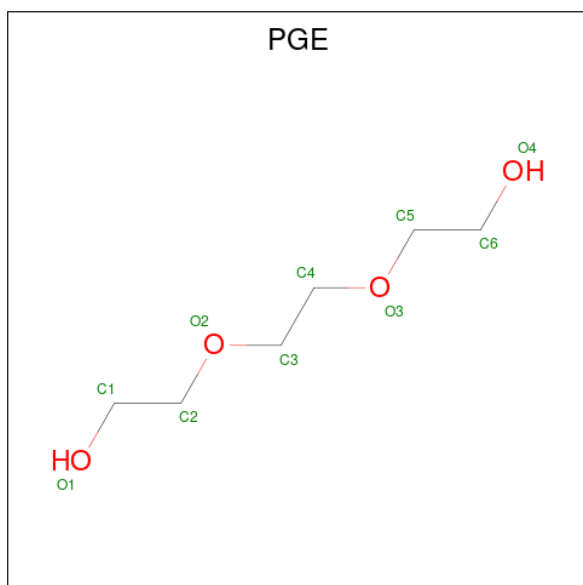
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	1	Total	Zn	0	0
			1	1		
8	B	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	C	1	Total	Zn	0	0
			1	1		
8	D	1	Total	Zn	0	0
			1	1		

- Molecule 9 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	B	1	Total	C	O	0	0
			10	6	4		
9	C	1	Total	C	O	0	0
			10	6	4		

- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	494	Total	O	0	0
			494	494		
10	B	545	Total	O	0	0
			545	545		
10	C	517	Total	O	0	0
			517	517		
10	D	440	Total	O	0	0
			440	440		



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.23Å 82.43Å 211.42Å 90.00° 92.21° 90.00°	Depositor
Resolution (Å)	19.95 – 1.75 19.95 – 1.75	Depositor EDS
% Data completeness (in resolution range)	99.9 (19.95-1.75) 91.3 (19.95-1.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 1.74Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.163 , 0.195 0.163 , 0.195	Depositor DCC
R_{free} test set	13128 reflections (4.61%)	wwPDB-VP
Wilson B-factor (Å ²)	17.4	Xtriage
Anisotropy	0.569	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 46.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.014 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	19110	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.59% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, GOL, PEG, ZN, EDO, PGE, BTB

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.44	0/4143	0.60	0/5626
1	B	0.45	0/4233	0.61	0/5751
1	C	0.46	0/4148	0.61	0/5636
1	D	0.42	0/4121	0.56	0/5600
All	All	0.44	0/16645	0.59	0/22613

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
All	All	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	365	PHE	Peptide
1	C	365	PHE	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4025	0	3992	48	0
1	B	4102	0	4061	46	0
1	C	4036	0	3996	49	0
1	D	4012	0	3977	31	0
2	E	29	0	26	0	0
2	F	29	0	26	0	0
3	A	140	0	210	27	0
3	B	152	0	228	18	0
3	C	88	0	132	16	0
3	D	92	0	138	15	0
4	A	42	0	39	0	0
4	B	71	0	67	2	0
4	C	28	0	26	0	0
4	D	56	0	52	0	0
5	A	14	0	19	0	0
5	B	14	0	19	0	0
6	A	24	0	32	6	0
6	B	30	0	40	3	0
6	C	36	0	48	25	0
7	A	21	0	30	8	0
7	B	21	0	30	5	0
7	C	7	0	10	4	0
7	D	21	0	30	6	0
8	A	1	0	0	0	0
8	B	1	0	0	0	0
8	C	1	0	0	0	0
8	D	1	0	0	0	0
9	B	10	0	14	8	0
9	C	10	0	14	5	0
10	A	494	0	0	5	0
10	B	545	0	0	8	0
10	C	517	0	0	5	0
10	D	440	0	0	7	0
All	All	19110	0	17256	196	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 6.

All (196) 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:A:315:LEU:HD12	3:A:605:EDO:H11	1.50	0.94
1:B:212:TRP:HH2	9:B:643:PGE:H5	1.32	0.91
7:A:646:PEG:H31	1:D:432:ARG:HH22	1.35	0.88
1:B:79:ILE:HD11	6:B:651:GOL:H31	1.57	0.87
7:B:646:PEG:H41	1:C:208:LEU:HD23	1.54	0.87
1:C:223:ARG:HH11	3:C:630:EDO:H21	1.42	0.84
1:C:105:THR:HG21	6:C:631:GOL:H12	1.60	0.84
1:A:432:ARG:HH22	3:A:624:EDO:H21	1.42	0.84
4:B:606:NAG:O4	4:B:648:NAG:H3	1.80	0.82
7:A:646:PEG:H31	1:D:432:ARG:NH2	1.97	0.79
1:A:208:LEU:HB2	7:A:646:PEG:H42	1.67	0.77
1:C:79:ILE:HD11	6:C:624:GOL:H12	1.67	0.77
1:B:476:ASP:HA	3:B:642:EDO:H11	1.68	0.76
1:D:73:ARG:HB3	3:D:627:EDO:H11	1.69	0.74
1:B:208:LEU:HD23	6:C:603:GOL:H12	1.68	0.74
4:B:607:NAG:H61	6:C:601:GOL:H12	1.70	0.73
1:C:86:LYS:HA	6:C:603:GOL:H2	1.70	0.73
1:C:88:GLN:HG2	10:C:1057:HOH:O	1.89	0.73
1:B:105:THR:HA	3:B:640:EDO:H11	1.70	0.73
1:A:79:ILE:HD11	6:A:645:GOL:H12	1.70	0.73
9:B:643:PGE:H6	10:B:704:HOH:O	1.88	0.73
1:B:212:TRP:CH2	9:B:643:PGE:H5	2.21	0.72
1:B:521:LYS:NZ	3:B:628:EDO:H21	2.05	0.71
3:A:624:EDO:H11	1:D:208:LEU:HB3	1.73	0.70
1:C:60:LEU:HA	6:C:626:GOL:H11	1.73	0.70
1:D:258:SER:HB3	1:D:270:PRO:HG3	1.75	0.69
1:A:413:VAL:HG22	3:A:625:EDO:H11	1.73	0.69
1:B:79:ILE:CD1	6:B:651:GOL:H31	2.25	0.66
1:C:78[A]:ILE:HD12	6:C:631:GOL:O1	1.96	0.66
1:D:50:GLN:HG3	10:D:792:HOH:O	1.95	0.65
7:A:646:PEG:H22	3:D:626:EDO:H21	1.78	0.65
1:D:87:THR:N	3:D:626:EDO:H22	2.13	0.64
1:A:87:THR:N	3:A:627:EDO:H22	2.13	0.64
1:C:230:PRO:HB3	3:C:614:EDO:H11	1.80	0.62
1:C:263:LEU:HD22	3:C:628:EDO:H22	1.81	0.62
1:A:202:LEU:HA	3:A:638:EDO:H21	1.81	0.62
1:C:339:ASN:OD1	3:C:618:EDO:H12	1.99	0.62
1:C:258:SER:HB3	1:C:270:PRO:HG3	1.80	0.61
1:C:61:ASN:HD21	3:C:621:EDO:H11	1.64	0.61
1:B:372:TRP:CZ2	6:C:602:GOL:H11	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:219:PHE:HB3	3:C:630:EDO:H11	1.83	0.61
1:A:432:ARG:NH2	3:A:624:EDO:H21	2.16	0.60
3:A:601:EDO:O2	3:A:624:EDO:H22	2.02	0.60
10:B:979:HOH:O	6:C:603:GOL:H32	2.01	0.60
1:A:403:ARG:HD2	10:D:714:HOH:O	2.01	0.60
1:C:216:ASP:OD1	3:C:629:EDO:H11	2.01	0.60
1:B:385:LEU:HD21	1:B:392[B]:ILE:HD11	1.84	0.59
1:C:79:ILE:CD1	6:C:624:GOL:H12	2.31	0.59
1:A:315:LEU:CD1	3:A:605:EDO:H11	2.30	0.59
1:B:470:MET:O	6:B:651:GOL:H32	2.03	0.59
1:A:306:ASN:HB2	3:A:609:EDO:H11	1.84	0.59
3:B:642:EDO:H12	10:B:1083:HOH:O	2.03	0.59
1:D:334:ALA:H	7:D:614:PEG:H21	1.67	0.59
1:A:79:ILE:CD1	6:A:645:GOL:H12	2.33	0.59
1:C:212:TRP:CH2	9:C:625:PGE:H2	2.38	0.59
1:A:45:LEU:HD23	1:D:382:VAL:HG13	1.85	0.58
1:B:521:LYS:HZ1	3:B:628:EDO:H21	1.68	0.58
1:C:429:LYS:NZ	7:C:627:PEG:H11	2.18	0.58
1:A:209:ASP:HB3	3:D:626:EDO:O2	2.03	0.57
1:B:369:GLU:OE2	9:B:643:PGE:H52	2.05	0.57
1:A:399:ILE:HA	1:A:405:ILE:HD11	1.86	0.57
1:B:209:ASP:HB3	6:C:603:GOL:O2	2.04	0.57
1:A:339:ASN:HA	3:A:643:EDO:H21	1.88	0.56
1:B:208:LEU:HD23	6:C:603:GOL:C3	2.35	0.56
1:A:168:CYS:HB3	3:A:618:EDO:H12	1.89	0.55
1:B:208:LEU:CD2	6:C:603:GOL:H12	2.34	0.55
1:B:125:THR:HG21	3:B:622:EDO:H22	1.89	0.55
1:C:230:PRO:CB	3:C:614:EDO:H11	2.36	0.55
1:C:43:GLU:HB3	3:C:623:EDO:H12	1.90	0.54
1:D:158:SER:HA	3:D:622:EDO:H12	1.89	0.54
1:A:191:LYS:HG2	7:A:636:PEG:H32	1.90	0.54
1:B:45:LEU:HD23	1:C:382:VAL:HG13	1.90	0.54
1:C:75:LYS:HE2	6:C:624:GOL:O1	2.08	0.53
1:B:369:GLU:CD	9:B:643:PGE:H52	2.33	0.53
1:C:212:TRP:HH2	9:C:625:PGE:H2	1.72	0.53
1:B:502:THR:HG21	3:B:653:EDO:H11	1.89	0.53
1:C:212:TRP:HH2	9:C:625:PGE:H3	1.73	0.53
1:D:159:GLY:H	3:D:622:EDO:C1	2.22	0.52
3:A:627:EDO:O2	1:D:209:ASP:HB3	2.10	0.52
1:D:186:PHE:HA	7:D:617:PEG:H22	1.91	0.52
1:D:102:MET:HA	3:D:615:EDO:H22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:LYS:HE3	3:C:604:EDO:H12	1.92	0.52
1:D:271:GLU:OE1	3:D:625:EDO:H21	2.10	0.52
3:A:624:EDO:H11	1:D:208:LEU:CB	2.40	0.52
1:A:163:PRO:HB2	1:A:170:TRP:CD1	2.45	0.51
1:B:209:ASP:CA	6:C:603:GOL:H11	2.39	0.51
1:C:63:LYS:HD2	3:C:621:EDO:H22	1.91	0.51
1:D:159:GLY:H	3:D:622:EDO:H11	1.75	0.51
6:C:602:GOL:H31	10:C:1057:HOH:O	2.10	0.51
1:B:385:LEU:CD2	1:B:392[B]:ILE:HD11	2.40	0.51
9:B:643:PGE:H1	10:B:704:HOH:O	2.11	0.51
1:D:152:PHE:CE2	3:D:619:EDO:H12	2.45	0.51
6:C:602:GOL:H32	6:C:603:GOL:H31	1.92	0.51
1:A:506:LEU:HG	1:A:510:LYS:HE2	1.93	0.51
7:A:646:PEG:H12	3:D:626:EDO:O1	2.10	0.51
1:C:369:GLU:OE2	9:C:625:PGE:H22	2.11	0.50
3:B:616:EDO:H22	10:B:1102:HOH:O	2.10	0.50
1:A:340:THR:OG1	3:A:643:EDO:H22	2.11	0.50
1:C:474:GLY:HA2	6:C:624:GOL:H2	1.92	0.50
1:B:369:GLU:OE1	9:B:643:PGE:H52	2.12	0.50
1:A:201:PRO:HG2	1:A:424:LEU:HD22	1.92	0.49
1:A:88:GLN:HG2	10:A:899:HOH:O	2.10	0.49
1:B:162:PRO:HB2	10:B:746:HOH:O	2.12	0.49
1:C:506:LEU:HG	1:C:510:LYS:HE2	1.93	0.49
3:D:628:EDO:H12	10:D:749:HOH:O	2.13	0.49
1:A:149:GLN:HG3	10:A:940:HOH:O	2.11	0.49
1:A:318:ASP:OD2	3:A:605:EDO:H12	2.13	0.48
1:C:477:ALA:HB1	1:C:481:VAL:HG21	1.95	0.48
1:A:470:MET:O	6:A:645:GOL:H11	2.13	0.48
1:B:506:LEU:HG	1:B:510:LYS:HE2	1.96	0.48
1:C:494:SER:HA	3:C:615:EDO:H11	1.94	0.48
1:C:515:ILE:HG21	3:C:621:EDO:H12	1.95	0.48
1:B:234:ASP:OD1	3:B:616:EDO:H11	2.13	0.48
1:A:310:PHE:HE1	1:A:351:TYR:CD2	2.32	0.48
7:B:646:PEG:O4	1:C:209:ASP:HB3	2.13	0.48
1:A:303:VAL:HA	3:A:643:EDO:H11	1.96	0.48
1:B:208:LEU:HD23	6:C:603:GOL:H32	1.96	0.48
1:B:403:ARG:NH1	3:B:612:EDO:H11	2.29	0.48
1:A:223:ARG:HD3	10:A:1085:HOH:O	2.15	0.47
3:B:654:EDO:H11	1:C:379:TYR:CD2	2.50	0.47
1:A:206:PRO:HB2	3:A:637:EDO:H12	1.97	0.47
1:B:310:PHE:HE1	1:B:351:TYR:CD2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:ARG:HD2	10:C:1007:HOH:O	2.14	0.47
1:C:502:THR:OG1	3:C:619:EDO:H21	2.14	0.47
1:A:86:LYS:C	3:A:627:EDO:H22	2.40	0.46
1:B:496:ASN:HD21	3:B:633:EDO:H11	1.79	0.46
1:A:505:LYS:HE3	1:A:505:LYS:HB2	1.64	0.46
1:D:96:PHE:CD2	1:D:200:ASP:HB2	2.51	0.46
1:B:211:VAL:HG11	3:B:618:EDO:H11	1.97	0.46
1:B:477:ALA:HB1	1:B:481:VAL:HG21	1.98	0.46
1:C:243:PHE:CD2	1:C:460:PRO:HB3	2.50	0.46
1:B:219:PHE:CG	3:B:620:EDO:H11	2.50	0.46
1:C:223:ARG:HD2	3:C:630:EDO:H21	1.98	0.46
1:D:81:ASN:O	1:D:85:ASN:HB2	2.16	0.46
1:B:237:ARG:HG2	3:B:616:EDO:H12	1.98	0.45
7:B:646:PEG:H42	10:C:707:HOH:O	2.17	0.45
7:B:644:PEG:H32	10:B:807:HOH:O	2.17	0.45
3:B:645:EDO:H12	10:B:755:HOH:O	2.16	0.45
1:D:180:SER:HB2	7:D:617:PEG:H12	1.99	0.45
1:D:334:ALA:N	7:D:614:PEG:H21	2.30	0.45
1:D:477:ALA:HB1	1:D:481:VAL:HG21	1.98	0.45
1:B:96:PHE:CD2	1:B:200:ASP:HB2	2.52	0.45
1:A:269:ASP:HB2	1:A:270:PRO:HD2	1.99	0.44
1:C:429:LYS:HZ3	7:C:627:PEG:H11	1.82	0.44
1:A:351:TYR:CE2	6:A:623:GOL:H31	2.51	0.44
3:A:624:EDO:H12	10:A:775:HOH:O	2.16	0.44
1:C:90:ILE:CG2	6:C:631:GOL:H32	2.47	0.44
1:D:250:TYR:CD1	1:D:495:MET:HE2	2.53	0.44
1:A:402:PRO:HB3	3:A:616:EDO:H12	2.00	0.44
1:C:78[B]:ILE:HG13	10:C:967:HOH:O	2.17	0.44
1:D:411:ARG:O	3:D:618:EDO:H21	2.17	0.44
1:D:506:LEU:HG	1:D:510:LYS:HE2	2.00	0.44
1:A:379:TYR:CD2	3:D:621:EDO:H22	2.53	0.44
3:A:633:EDO:H11	10:D:774:HOH:O	2.18	0.44
1:C:207:SER:CA	7:C:627:PEG:H21	2.47	0.44
1:C:334:ALA:N	9:C:625:PGE:H4	2.33	0.44
1:C:86:LYS:HA	6:C:603:GOL:C2	2.45	0.43
1:A:437:ALA:HB3	1:A:438:PRO:HD3	2.00	0.43
7:D:624:PEG:H32	10:D:975:HOH:O	2.17	0.43
7:B:641:PEG:O1	3:B:650:EDO:H12	2.17	0.43
1:A:131:ASP:OD1	7:A:636:PEG:H31	2.19	0.43
1:B:243:PHE:CD2	1:B:460:PRO:HB3	2.54	0.43
1:B:209:ASP:N	6:C:603:GOL:H11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:626:PEG:H22	7:A:626:PEG:H42	1.68	0.43
1:B:337:ASP:OD1	1:B:377:VAL:HG11	2.19	0.43
1:B:505:LYS:HE3	1:B:505:LYS:HB2	1.66	0.42
1:B:442:GLN:HG3	1:B:444:VAL:HG23	2.01	0.42
1:A:35:MET:HE2	1:D:354:ARG:HH22	1.85	0.42
1:A:269:ASP:HB2	1:A:270:PRO:CD	2.48	0.42
1:D:286:ARG:HG3	10:D:1111:HOH:O	2.19	0.42
1:A:309:ILE:HG13	1:A:345:TYR:CE1	2.54	0.42
1:D:61:ASN:HD21	3:D:611:EDO:H11	1.84	0.42
1:B:162:PRO:HA	1:B:163:PRO:HD3	1.93	0.42
1:C:45:LEU:C	1:C:45:LEU:HD23	2.44	0.42
1:D:399:ILE:HA	1:D:405:ILE:HD11	2.02	0.42
7:D:624:PEG:H32	7:D:624:PEG:H12	1.68	0.42
6:C:602:GOL:C3	6:C:603:GOL:H31	2.49	0.42
1:A:216:ASP:HA	6:A:634:GOL:H12	2.02	0.42
1:A:234:ASP:OD1	3:A:611:EDO:H22	2.20	0.42
1:A:495:MET:HB3	1:A:499:GLU:HB2	2.02	0.42
1:B:145:MET:HA	1:B:154:ARG:O	2.21	0.41
1:B:61:ASN:HD21	3:B:610:EDO:H22	1.84	0.41
1:C:78[A]:ILE:HD12	6:C:631:GOL:HO1	1.83	0.41
1:A:61:ASN:HD21	3:A:631:EDO:C2	2.34	0.41
1:B:314:LYS:HD3	1:B:351:TYR:CE1	2.55	0.41
1:C:90:ILE:HG21	6:C:631:GOL:H32	2.03	0.41
6:A:634:GOL:H32	10:A:1001:HOH:O	2.21	0.41
3:A:624:EDO:O1	3:A:627:EDO:H21	2.21	0.40
3:A:627:EDO:H21	10:D:704:HOH:O	2.21	0.40
1:C:223:ARG:HB2	3:C:630:EDO:H12	2.02	0.40
1:A:52:LEU:O	1:A:443:ASN:HB2	2.22	0.40
1:A:311:ASN:O	3:A:612:EDO:H22	2.22	0.40
1:C:207:SER:HA	7:C:627:PEG:H21	2.03	0.40
1:A:399:ILE:HG13	1:D:438:PRO:HB3	2.04	0.40
1:B:212:TRP:CH2	9:B:643:PGE:C5	2.98	0.40
1:C:435:ALA:O	1:C:438:PRO:HD2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	502/541 (93%)	486 (97%)	16 (3%)	0	100	100
1	B	513/541 (95%)	493 (96%)	20 (4%)	0	100	100
1	C	503/541 (93%)	489 (97%)	14 (3%)	0	100	100
1	D	499/541 (92%)	483 (97%)	16 (3%)	0	100	100
All	All	2017/2164 (93%)	1951 (97%)	66 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	446/474 (94%)	445 (100%)	1 (0%)	87	84
1	B	455/474 (96%)	453 (100%)	2 (0%)	84	80
1	C	447/474 (94%)	445 (100%)	2 (0%)	84	80
1	D	444/474 (94%)	443 (100%)	1 (0%)	87	84
All	All	1792/1896 (94%)	1786 (100%)	6 (0%)	86	83

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	193	ASN
1	B	193	ASN

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Mol	Chain	Res	Type
1	B	269	ASP
1	C	168	CYS
1	C	193	ASN
1	D	193	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	238	GLN
1	A	306	ASN
1	A	373	GLN
1	A	484	GLN
1	B	249	GLN
1	B	373	GLN
1	B	443	ASN
1	B	484	GLN
1	B	491	GLN
1	B	508	GLN
1	B	534	HIS
1	C	249	GLN
1	C	373	GLN
1	D	88	GLN
1	D	151	ASN
1	D	238	GLN
1	D	249	GLN
1	D	355	GLN
1	D	373	GLN
1	D	484	GLN

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 ⓘ

4 monosaccharides 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	NAG	E	1	1,2	14,14,15	0.68	0	17,19,21	1.46	2 (11%)
2	NAG	E	2	2	15,15,15	0.51	0	21,21,21	1.98	4 (19%)
2	NAG	F	1	1,2	14,14,15	0.72	0	17,19,21	1.19	2 (11%)
2	NAG	F	2	2	15,15,15	0.61	0	21,21,21	2.13	8 (38%)

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	NAG	E	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	E	2	2	-	0/6/26/26	0/1/1/1
2	NAG	F	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	F	2	2	-	0/6/26/26	0/1/1/1

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	2	NAG	C1-C2-C3	5.82	118.48	110.54
2	E	2	NAG	C1-O5-C5	4.83	123.00	113.65
2	F	2	NAG	C1-O5-C5	4.20	121.78	113.65
2	E	2	NAG	C1-C2-C3	4.17	116.23	110.54
2	E	2	NAG	O5-C1-C2	3.80	113.33	109.52
2	F	1	NAG	C1-O5-C5	3.28	116.59	112.19
2	E	1	NAG	C3-C4-C5	-3.15	104.52	110.23
2	F	2	NAG	O4-C4-C3	-3.07	103.14	110.38
2	E	1	NAG	C1-O5-C5	2.93	116.11	112.19
2	E	2	NAG	O5-C5-C4	2.81	114.77	109.70
2	F	2	NAG	C3-C2-N2	-2.49	106.02	110.62
2	F	2	NAG	O5-C1-C2	2.38	111.91	109.52
2	F	2	NAG	O1-C1-O5	-2.36	103.39	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	2	NAG	C4-C3-C2	2.31	113.76	110.40
2	F	2	NAG	O5-C5-C4	2.29	113.83	109.70
2	F	1	NAG	C3-C4-C5	-2.14	106.36	110.23

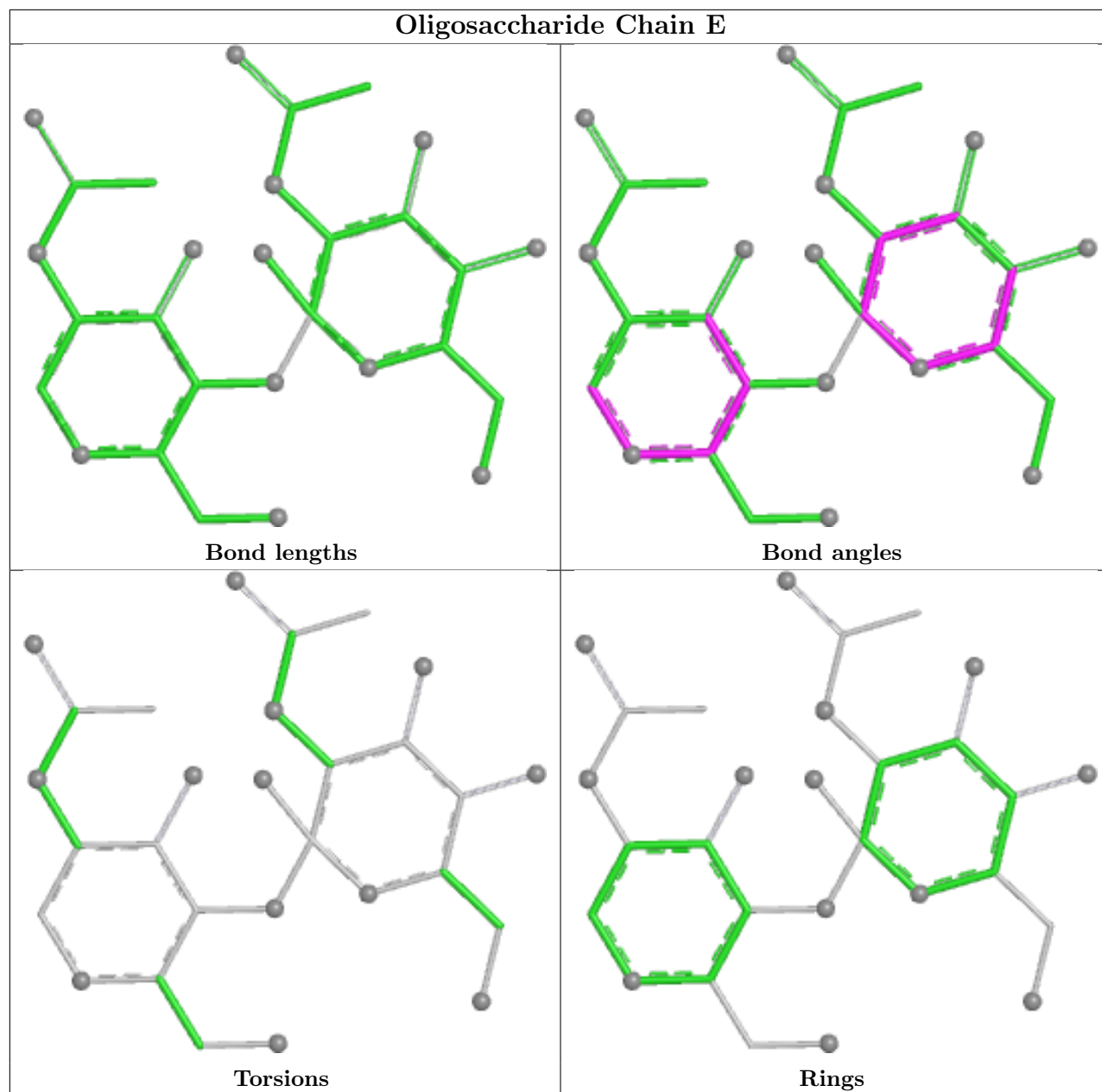
There are no chirality outliers.

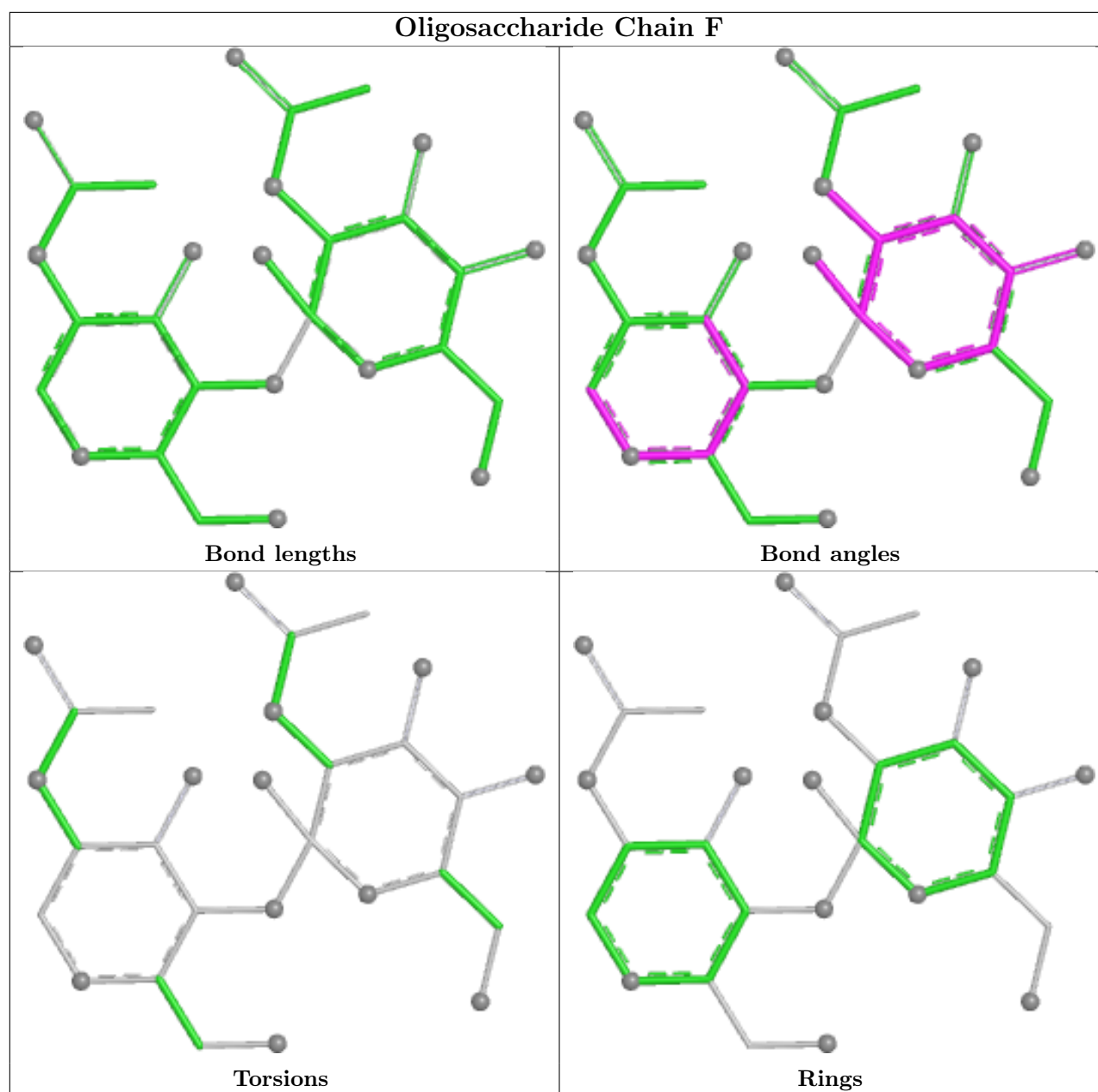
There are no torsion outliers.

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 oligosaccharide.





5.6 Ligand geometry [i](#)

Of 165 ligands modelled in this entry, 4 are monoatomic - leaving 161 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	A	616	-	3,3,3	0.24	0	2,2,2	0.26	0
3	EDO	C	608	-	3,3,3	0.30	0	2,2,2	0.80	0
9	PGE	C	625	-	9,9,9	0.49	0	8,8,8	0.95	0
3	EDO	D	622	-	3,3,3	0.21	0	2,2,2	0.31	0
4	NAG	A	602	1	14,14,15	1.01	2 (14%)	17,19,21	1.83	4 (23%)
3	EDO	C	629	-	3,3,3	0.29	0	2,2,2	0.03	0
7	PEG	B	644	-	6,6,6	0.21	0	5,5,5	0.41	0
4	NAG	B	604	1	14,14,15	0.79	1 (7%)	17,19,21	2.18	4 (23%)
3	EDO	C	609	-	3,3,3	0.29	0	2,2,2	0.35	0
4	NAG	B	606	1	14,14,15	0.72	0	17,19,21	1.20	2 (11%)
3	EDO	B	608	-	3,3,3	0.32	0	2,2,2	0.57	0
3	EDO	A	614	-	3,3,3	0.23	0	2,2,2	0.12	0
3	EDO	D	623	-	3,3,3	0.26	0	2,2,2	0.30	0
3	EDO	D	631	-	3,3,3	0.29	0	2,2,2	0.57	0
3	EDO	B	647	-	3,3,3	0.24	0	2,2,2	0.51	0
3	EDO	C	614	-	3,3,3	0.24	0	2,2,2	0.17	0
4	NAG	B	648	-	15,15,15	0.49	0	21,21,21	2.85	8 (38%)
3	EDO	A	619	-	3,3,3	0.28	0	2,2,2	0.13	0
3	EDO	A	632	-	3,3,3	0.27	0	2,2,2	0.18	0
6	GOL	A	630	-	5,5,5	0.32	0	5,5,5	0.42	0
6	GOL	C	603	-	5,5,5	1.15	1 (20%)	5,5,5	0.56	0
3	EDO	C	610	-	3,3,3	0.26	0	2,2,2	0.22	0
3	EDO	A	601	-	3,3,3	0.25	0	2,2,2	0.35	0
7	PEG	D	624	-	6,6,6	0.27	0	5,5,5	0.43	0
3	EDO	A	618	-	3,3,3	0.28	0	2,2,2	0.16	0
4	NAG	B	607	1	14,14,15	0.77	0	17,19,21	1.10	1 (5%)
6	GOL	C	626	-	5,5,5	0.52	0	5,5,5	1.30	0
3	EDO	A	625	-	3,3,3	0.22	0	2,2,2	0.41	0
7	PEG	B	641	-	6,6,6	0.25	0	5,5,5	0.48	0
3	EDO	D	616	-	3,3,3	0.23	0	2,2,2	0.35	0
4	NAG	D	602	1	14,14,15	0.74	0	17,19,21	1.11	2 (11%)
3	EDO	A	640	-	3,3,3	0.26	0	2,2,2	0.19	0
7	PEG	D	614	-	6,6,6	0.27	0	5,5,5	0.35	0
3	EDO	C	619	-	3,3,3	0.28	0	2,2,2	0.16	0
6	GOL	C	624	-	5,5,5	0.61	0	5,5,5	1.87	1 (20%)
3	EDO	B	628	-	3,3,3	0.24	0	2,2,2	0.17	0
6	GOL	A	623	-	5,5,5	0.29	0	5,5,5	0.22	0
3	EDO	B	611	-	3,3,3	0.30	0	2,2,2	0.19	0
3	EDO	A	609	-	3,3,3	0.23	0	2,2,2	0.42	0
3	EDO	A	611	-	3,3,3	0.19	0	2,2,2	0.33	0
3	EDO	D	608	-	3,3,3	0.23	0	2,2,2	0.50	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	A	620	-	3,3,3	0.26	0	2,2,2	0.29	0
3	EDO	C	630	-	3,3,3	0.23	0	2,2,2	0.18	0
6	GOL	C	601	-	5,5,5	0.32	0	5,5,5	0.48	0
3	EDO	C	628	-	3,3,3	0.28	0	2,2,2	0.75	0
3	EDO	B	629	-	3,3,3	0.22	0	2,2,2	0.32	0
6	GOL	C	602	-	5,5,5	0.47	0	5,5,5	0.57	0
3	EDO	B	653	-	3,3,3	0.25	0	2,2,2	0.35	0
6	GOL	B	630	-	5,5,5	0.42	0	5,5,5	1.01	0
3	EDO	D	618	-	3,3,3	0.29	0	2,2,2	0.31	0
3	EDO	A	610	-	3,3,3	0.23	0	2,2,2	0.32	0
3	EDO	D	625	-	3,3,3	0.26	0	2,2,2	0.17	0
3	EDO	B	612	-	3,3,3	0.27	0	2,2,2	0.18	0
3	EDO	C	618	-	3,3,3	0.27	0	2,2,2	0.26	0
3	EDO	B	624	-	3,3,3	0.26	0	2,2,2	0.50	0
3	EDO	A	627	-	3,3,3	0.16	0	2,2,2	0.37	0
3	EDO	C	617	-	3,3,3	0.26	0	2,2,2	0.38	0
3	EDO	A	606	-	3,3,3	0.34	0	2,2,2	0.39	0
4	NAG	C	605	1	14,14,15	0.82	1 (7%)	17,19,21	1.11	1 (5%)
3	EDO	B	618	-	3,3,3	0.27	0	2,2,2	0.17	0
3	EDO	B	632	-	3,3,3	0.24	0	2,2,2	0.47	0
3	EDO	C	620	-	3,3,3	0.19	0	2,2,2	0.59	0
3	EDO	B	640	-	3,3,3	0.31	0	2,2,2	0.12	0
6	GOL	A	634	-	5,5,5	0.39	0	5,5,5	0.50	0
5	BTB	B	613	-	13,13,13	0.99	0	7,16,16	0.86	0
3	EDO	B	636	-	3,3,3	0.26	0	2,2,2	0.14	0
4	NAG	A	604	1	14,14,15	0.73	0	17,19,21	1.17	1 (5%)
3	EDO	B	631	-	3,3,3	0.30	0	2,2,2	0.43	0
3	EDO	C	621	-	3,3,3	0.22	0	2,2,2	0.12	0
3	EDO	D	613	-	3,3,3	0.17	0	2,2,2	0.48	0
3	EDO	A	608	-	3,3,3	0.33	0	2,2,2	0.46	0
3	EDO	B	622	-	3,3,3	0.26	0	2,2,2	0.06	0
3	EDO	B	625	-	3,3,3	0.27	0	2,2,2	0.13	0
3	EDO	D	609	-	3,3,3	0.32	0	2,2,2	0.42	0
3	EDO	A	635	-	3,3,3	0.25	0	2,2,2	0.29	0
3	EDO	B	634	-	3,3,3	0.23	0	2,2,2	0.33	0
3	EDO	B	617	-	3,3,3	0.27	0	2,2,2	0.14	0
3	EDO	B	633	-	3,3,3	0.27	0	2,2,2	0.22	0
7	PEG	A	646	-	6,6,6	0.34	0	5,5,5	0.67	0
3	EDO	B	602	-	3,3,3	0.27	0	2,2,2	0.23	0
3	EDO	A	615	-	3,3,3	0.24	0	2,2,2	0.25	0
3	EDO	C	607	-	3,3,3	0.35	0	2,2,2	0.14	0
3	EDO	B	615	-	3,3,3	0.22	0	2,2,2	0.61	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	B	639	-	3,3,3	0.26	0	2,2,2	0.16	0
6	GOL	A	645	-	5,5,5	0.34	0	5,5,5	0.83	0
3	EDO	B	621	-	3,3,3	0.22	0	2,2,2	0.47	0
4	NAG	C	606	1	14,14,15	0.78	1 (7%)	17,19,21	0.99	1 (5%)
3	EDO	A	605	-	3,3,3	0.37	0	2,2,2	0.47	0
6	GOL	B	651	-	5,5,5	0.48	0	5,5,5	0.96	0
3	EDO	D	612	-	3,3,3	0.22	0	2,2,2	0.50	0
3	EDO	D	627	-	3,3,3	0.25	0	2,2,2	0.38	0
3	EDO	A	622	-	3,3,3	0.26	0	2,2,2	0.35	0
3	EDO	C	622	-	3,3,3	0.26	0	2,2,2	0.23	0
4	NAG	B	605	1	14,14,15	0.81	0	17,19,21	1.07	2 (11%)
3	EDO	A	638	-	3,3,3	0.28	0	2,2,2	0.21	0
3	EDO	C	611	-	3,3,3	0.21	0	2,2,2	0.34	0
3	EDO	D	601	-	3,3,3	0.24	0	2,2,2	0.21	0
3	EDO	B	610	-	3,3,3	0.19	0	2,2,2	0.42	0
6	GOL	B	601	-	5,5,5	0.37	0	5,5,5	0.28	0
4	NAG	D	604	1	14,14,15	0.86	0	17,19,21	1.37	2 (11%)
3	EDO	A	617	-	3,3,3	0.24	0	2,2,2	0.30	0
3	EDO	C	604	-	3,3,3	0.24	0	2,2,2	0.33	0
3	EDO	A	613	-	3,3,3	0.26	0	2,2,2	0.52	0
7	PEG	C	627	-	6,6,6	0.36	0	5,5,5	1.04	0
3	EDO	B	649	-	3,3,3	0.23	0	2,2,2	0.28	0
5	BTB	A	607	-	13,13,13	0.98	1 (7%)	7,16,16	0.84	0
3	EDO	B	645	-	3,3,3	0.30	0	2,2,2	0.13	0
6	GOL	B	627	-	5,5,5	0.26	0	5,5,5	0.63	0
6	GOL	B	635	-	5,5,5	0.17	0	5,5,5	0.39	0
3	EDO	B	650	-	3,3,3	0.30	0	2,2,2	0.29	0
3	EDO	A	631	-	3,3,3	0.24	0	2,2,2	0.33	0
3	EDO	D	620	-	3,3,3	0.26	0	2,2,2	0.10	0
4	NAG	A	603	1	14,14,15	0.73	0	17,19,21	1.30	2 (11%)
3	EDO	C	613	-	3,3,3	0.25	0	2,2,2	0.32	0
3	EDO	C	623	-	3,3,3	0.22	0	2,2,2	0.65	0
3	EDO	A	628	-	3,3,3	0.27	0	2,2,2	0.32	0
3	EDO	D	615	-	3,3,3	0.27	0	2,2,2	0.38	0
3	EDO	A	641	-	3,3,3	0.27	0	2,2,2	0.31	0
3	EDO	A	644	-	3,3,3	0.25	0	2,2,2	0.21	0
3	EDO	C	633	-	3,3,3	0.27	0	2,2,2	0.28	0
7	PEG	B	646	-	6,6,6	0.22	0	5,5,5	0.88	0
3	EDO	C	616	-	3,3,3	0.24	0	2,2,2	0.48	0
3	EDO	C	612	-	3,3,3	0.15	0	2,2,2	0.22	0
3	EDO	A	612	-	3,3,3	0.33	0	2,2,2	0.32	0
3	EDO	A	629	-	3,3,3	0.29	0	2,2,2	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	B	620	-	3,3,3	0.25	0	2,2,2	0.41	0
3	EDO	D	611	-	3,3,3	0.22	0	2,2,2	0.40	0
4	NAG	D	605	1	14,14,15	0.78	0	17,19,21	0.94	1 (5%)
3	EDO	D	606	-	3,3,3	0.24	0	2,2,2	0.47	0
3	EDO	D	610	-	3,3,3	0.33	0	2,2,2	0.29	0
3	EDO	A	643	-	3,3,3	0.23	0	2,2,2	0.16	0
3	EDO	B	609	-	3,3,3	0.30	0	2,2,2	0.25	0
3	EDO	B	623	-	3,3,3	0.28	0	2,2,2	0.35	0
3	EDO	A	621	-	3,3,3	0.26	0	2,2,2	0.33	0
3	EDO	B	637	-	3,3,3	0.29	0	2,2,2	0.22	0
3	EDO	A	637	-	3,3,3	0.26	0	2,2,2	0.20	0
3	EDO	D	621	-	3,3,3	0.25	0	2,2,2	0.28	0
3	EDO	A	624	-	3,3,3	0.28	0	2,2,2	0.12	0
3	EDO	D	626	-	3,3,3	0.27	0	2,2,2	0.61	0
3	EDO	B	614	-	3,3,3	0.23	0	2,2,2	0.31	0
3	EDO	A	633	-	3,3,3	0.22	0	2,2,2	0.73	0
3	EDO	B	638	-	3,3,3	0.24	0	2,2,2	0.38	0
3	EDO	B	619	-	3,3,3	0.24	0	2,2,2	0.47	0
3	EDO	B	642	-	3,3,3	0.38	0	2,2,2	0.32	0
3	EDO	A	642	-	3,3,3	0.26	0	2,2,2	0.45	0
4	NAG	D	603	1	14,14,15	0.73	0	17,19,21	1.14	2 (11%)
3	EDO	B	616	-	3,3,3	0.25	0	2,2,2	0.20	0
3	EDO	B	603	-	3,3,3	0.27	0	2,2,2	0.74	0
3	EDO	D	619	-	3,3,3	0.27	0	2,2,2	0.30	0
3	EDO	D	628	-	3,3,3	0.26	0	2,2,2	0.42	0
7	PEG	A	636	-	6,6,6	0.26	0	5,5,5	0.70	0
7	PEG	A	626	-	6,6,6	0.22	0	5,5,5	0.46	0
3	EDO	D	607	-	3,3,3	0.27	0	2,2,2	0.28	0
7	PEG	D	617	-	6,6,6	0.28	0	5,5,5	0.38	0
3	EDO	B	654	-	3,3,3	0.28	0	2,2,2	0.41	0
3	EDO	B	626	-	3,3,3	0.26	0	2,2,2	0.09	0
9	PGE	B	643	-	9,9,9	0.42	0	8,8,8	1.26	1 (12%)
3	EDO	D	629	-	3,3,3	0.25	0	2,2,2	0.35	0
6	GOL	C	631	-	5,5,5	0.45	0	5,5,5	1.39	1 (20%)
3	EDO	A	639	-	3,3,3	0.30	0	2,2,2	0.24	0
3	EDO	C	615	-	3,3,3	0.31	0	2,2,2	0.15	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	A	616	-	-	1/1/1/1	-
3	EDO	C	608	-	-	0/1/1/1	-
9	PGE	C	625	-	-	3/7/7/7	-
3	EDO	D	622	-	-	0/1/1/1	-
4	NAG	A	602	1	-	4/6/23/26	0/1/1/1
3	EDO	C	629	-	-	0/1/1/1	-
7	PEG	B	644	-	-	0/4/4/4	-
4	NAG	B	604	1	-	2/6/23/26	0/1/1/1
3	EDO	C	609	-	-	0/1/1/1	-
4	NAG	B	606	1	-	0/6/23/26	0/1/1/1
3	EDO	B	608	-	-	0/1/1/1	-
3	EDO	A	614	-	-	1/1/1/1	-
3	EDO	D	623	-	-	0/1/1/1	-
3	EDO	D	631	-	-	0/1/1/1	-
3	EDO	B	647	-	-	1/1/1/1	-
3	EDO	C	614	-	-	1/1/1/1	-
4	NAG	B	648	-	-	6/6/26/26	0/1/1/1
3	EDO	A	619	-	-	1/1/1/1	-
3	EDO	A	632	-	-	0/1/1/1	-
6	GOL	A	630	-	-	0/4/4/4	-
6	GOL	C	603	-	-	2/4/4/4	-
3	EDO	C	610	-	-	0/1/1/1	-
3	EDO	A	601	-	-	0/1/1/1	-
7	PEG	D	624	-	-	3/4/4/4	-
3	EDO	A	618	-	-	1/1/1/1	-
4	NAG	B	607	1	-	0/6/23/26	0/1/1/1
6	GOL	C	626	-	-	1/4/4/4	-
3	EDO	A	625	-	-	0/1/1/1	-
7	PEG	B	641	-	-	2/4/4/4	-
3	EDO	D	616	-	-	0/1/1/1	-
4	NAG	D	602	1	-	0/6/23/26	0/1/1/1
3	EDO	A	640	-	-	1/1/1/1	-
7	PEG	D	614	-	-	1/4/4/4	-
3	EDO	C	619	-	-	1/1/1/1	-
6	GOL	C	624	-	-	4/4/4/4	-
3	EDO	B	628	-	-	1/1/1/1	-
6	GOL	A	623	-	-	2/4/4/4	-
3	EDO	B	611	-	-	0/1/1/1	-
3	EDO	A	609	-	-	1/1/1/1	-
3	EDO	A	611	-	-	0/1/1/1	-
3	EDO	D	608	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	A	620	-	-	1/1/1/1	-
3	EDO	C	630	-	-	1/1/1/1	-
6	GOL	C	601	-	-	2/4/4/4	-
3	EDO	C	628	-	-	1/1/1/1	-
3	EDO	B	629	-	-	0/1/1/1	-
6	GOL	C	602	-	-	2/4/4/4	-
3	EDO	B	653	-	-	0/1/1/1	-
6	GOL	B	630	-	-	2/4/4/4	-
3	EDO	D	618	-	-	1/1/1/1	-
3	EDO	A	610	-	-	0/1/1/1	-
3	EDO	D	625	-	-	0/1/1/1	-
3	EDO	B	612	-	-	1/1/1/1	-
3	EDO	C	618	-	-	1/1/1/1	-
3	EDO	B	624	-	-	1/1/1/1	-
3	EDO	A	627	-	-	1/1/1/1	-
3	EDO	C	617	-	-	1/1/1/1	-
3	EDO	A	606	-	-	0/1/1/1	-
4	NAG	C	605	1	-	0/6/23/26	0/1/1/1
3	EDO	B	618	-	-	0/1/1/1	-
3	EDO	B	632	-	-	1/1/1/1	-
3	EDO	C	620	-	-	0/1/1/1	-
3	EDO	B	640	-	-	0/1/1/1	-
6	GOL	A	634	-	-	2/4/4/4	-
5	BTB	B	613	-	-	1/21/21/21	-
3	EDO	B	636	-	-	1/1/1/1	-
4	NAG	A	604	1	-	2/6/23/26	0/1/1/1
3	EDO	B	631	-	-	0/1/1/1	-
3	EDO	C	621	-	-	0/1/1/1	-
3	EDO	D	613	-	-	0/1/1/1	-
3	EDO	A	608	-	-	0/1/1/1	-
3	EDO	B	622	-	-	0/1/1/1	-
3	EDO	B	625	-	-	1/1/1/1	-
3	EDO	D	609	-	-	1/1/1/1	-
3	EDO	A	635	-	-	0/1/1/1	-
3	EDO	B	634	-	-	0/1/1/1	-
3	EDO	B	617	-	-	1/1/1/1	-
3	EDO	B	633	-	-	0/1/1/1	-
7	PEG	A	646	-	-	1/4/4/4	-
3	EDO	B	602	-	-	1/1/1/1	-
3	EDO	A	615	-	-	1/1/1/1	-
3	EDO	C	607	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	B	615	-	-	1/1/1/1	-
3	EDO	B	639	-	-	0/1/1/1	-
6	GOL	A	645	-	-	2/4/4/4	-
3	EDO	B	621	-	-	0/1/1/1	-
4	NAG	C	606	1	-	0/6/23/26	0/1/1/1
3	EDO	A	605	-	-	1/1/1/1	-
6	GOL	B	651	-	-	0/4/4/4	-
3	EDO	D	612	-	-	1/1/1/1	-
3	EDO	D	627	-	-	1/1/1/1	-
3	EDO	A	622	-	-	0/1/1/1	-
3	EDO	C	622	-	-	0/1/1/1	-
4	NAG	B	605	1	-	0/6/23/26	0/1/1/1
3	EDO	A	638	-	-	0/1/1/1	-
3	EDO	C	611	-	-	1/1/1/1	-
3	EDO	D	601	-	-	1/1/1/1	-
3	EDO	B	610	-	-	0/1/1/1	-
6	GOL	B	601	-	-	4/4/4/4	-
4	NAG	D	604	1	-	0/6/23/26	0/1/1/1
3	EDO	A	617	-	-	1/1/1/1	-
3	EDO	C	604	-	-	0/1/1/1	-
3	EDO	A	613	-	-	1/1/1/1	-
7	PEG	C	627	-	-	3/4/4/4	-
3	EDO	B	649	-	-	1/1/1/1	-
5	BTB	A	607	-	-	4/21/21/21	-
3	EDO	B	645	-	-	1/1/1/1	-
6	GOL	B	627	-	-	3/4/4/4	-
6	GOL	B	635	-	-	4/4/4/4	-
3	EDO	B	650	-	-	0/1/1/1	-
3	EDO	A	631	-	-	1/1/1/1	-
3	EDO	D	620	-	-	1/1/1/1	-
4	NAG	A	603	1	-	2/6/23/26	0/1/1/1
3	EDO	C	613	-	-	1/1/1/1	-
3	EDO	C	623	-	-	1/1/1/1	-
3	EDO	A	628	-	-	0/1/1/1	-
3	EDO	D	615	-	-	1/1/1/1	-
3	EDO	A	641	-	-	0/1/1/1	-
3	EDO	A	644	-	-	0/1/1/1	-
3	EDO	C	633	-	-	0/1/1/1	-
7	PEG	B	646	-	-	2/4/4/4	-
3	EDO	C	616	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	C	612	-	-	0/1/1/1	-
3	EDO	A	612	-	-	0/1/1/1	-
3	EDO	A	629	-	-	0/1/1/1	-
3	EDO	B	620	-	-	1/1/1/1	-
3	EDO	D	611	-	-	1/1/1/1	-
4	NAG	D	605	1	-	0/6/23/26	0/1/1/1
3	EDO	D	606	-	-	0/1/1/1	-
3	EDO	D	610	-	-	0/1/1/1	-
3	EDO	A	643	-	-	0/1/1/1	-
3	EDO	B	609	-	-	0/1/1/1	-
3	EDO	B	623	-	-	1/1/1/1	-
3	EDO	A	621	-	-	0/1/1/1	-
3	EDO	B	637	-	-	1/1/1/1	-
3	EDO	A	637	-	-	0/1/1/1	-
3	EDO	D	621	-	-	1/1/1/1	-
3	EDO	A	624	-	-	1/1/1/1	-
3	EDO	D	626	-	-	0/1/1/1	-
3	EDO	B	614	-	-	0/1/1/1	-
3	EDO	A	633	-	-	1/1/1/1	-
3	EDO	B	638	-	-	0/1/1/1	-
3	EDO	B	619	-	-	1/1/1/1	-
3	EDO	B	642	-	-	1/1/1/1	-
3	EDO	A	642	-	-	1/1/1/1	-
4	NAG	D	603	1	-	0/6/23/26	0/1/1/1
3	EDO	B	616	-	-	1/1/1/1	-
3	EDO	B	603	-	-	0/1/1/1	-
3	EDO	D	619	-	-	0/1/1/1	-
3	EDO	D	628	-	-	1/1/1/1	-
7	PEG	A	636	-	-	3/4/4/4	-
7	PEG	A	626	-	-	3/4/4/4	-
3	EDO	D	607	-	-	0/1/1/1	-
7	PEG	D	617	-	-	2/4/4/4	-
3	EDO	B	654	-	-	0/1/1/1	-
3	EDO	B	626	-	-	1/1/1/1	-
9	PGE	B	643	-	-	5/7/7/7	-
3	EDO	D	629	-	-	0/1/1/1	-
6	GOL	C	631	-	-	2/4/4/4	-
3	EDO	A	639	-	-	1/1/1/1	-
3	EDO	C	615	-	-	1/1/1/1	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	602	NAG	C1-C2	2.50	1.55	1.52
5	A	607	BTB	C3-C2	2.49	1.56	1.53
4	C	605	NAG	C1-C2	2.17	1.55	1.52
6	C	603	GOL	O2-C2	-2.14	1.37	1.43
4	B	604	NAG	C2-N2	-2.06	1.42	1.46
4	C	606	NAG	C1-C2	2.05	1.55	1.52
4	A	602	NAG	O5-C1	-2.05	1.40	1.43

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	648	NAG	C1-C2-N2	7.54	119.46	110.73
4	B	604	NAG	C1-C2-N2	-7.01	99.39	110.43
4	B	648	NAG	C4-C3-C2	5.61	118.58	110.40
4	B	648	NAG	C2-N2-C7	5.18	135.24	123.11
4	A	602	NAG	C1-C2-N2	-4.65	103.10	110.43
4	B	648	NAG	O5-C1-C2	-4.16	105.33	109.52
6	C	624	GOL	O1-C1-C2	3.85	127.69	110.38
4	D	604	NAG	C1-O5-C5	3.67	117.10	112.19
4	A	603	NAG	C1-O5-C5	3.19	116.46	112.19
4	C	605	NAG	C1-O5-C5	3.09	116.33	112.19
4	B	607	NAG	C1-O5-C5	2.99	116.19	112.19
4	A	602	NAG	O4-C4-C3	-2.92	103.49	110.38
4	A	602	NAG	O7-C7-C8	-2.91	116.88	122.05
4	D	603	NAG	C1-O5-C5	2.90	116.08	112.19
4	A	604	NAG	C1-O5-C5	2.81	115.95	112.19
4	B	604	NAG	O7-C7-C8	2.73	126.92	122.05
4	A	603	NAG	C1-C2-N2	2.72	114.73	110.43
4	B	648	NAG	C8-C7-N2	2.71	120.61	116.12
6	C	631	GOL	C3-C2-C1	-2.60	102.28	111.80
9	B	643	PGE	O3-C5-C6	2.55	121.33	110.11
4	D	604	NAG	C3-C4-C5	-2.51	105.68	110.23
4	B	648	NAG	O4-C4-C5	2.50	115.48	109.32
4	B	648	NAG	O5-C5-C4	2.48	114.16	109.70
4	B	605	NAG	C1-O5-C5	2.47	115.50	112.19
4	D	605	NAG	C1-O5-C5	2.45	115.46	112.19
4	B	604	NAG	O5-C5-C6	2.33	112.20	107.66
4	B	604	NAG	C8-C7-N2	-2.30	112.30	116.12
4	D	602	NAG	C2-N2-C7	-2.27	119.85	122.90
4	C	606	NAG	C1-C2-N2	2.25	113.98	110.43
4	B	606	NAG	C1-O5-C5	2.18	115.11	112.19
4	D	603	NAG	C1-C2-N2	2.16	113.84	110.43
4	A	602	NAG	O7-C7-N2	2.10	125.70	121.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	648	NAG	C1-C2-C3	-2.10	107.69	110.54
4	B	605	NAG	O5-C1-C2	-2.07	108.08	111.29
4	B	606	NAG	O5-C5-C4	-2.05	105.84	110.83
4	D	602	NAG	C1-O5-C5	-2.01	109.49	112.19

There are no chirality outliers.

All (137) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	648	NAG	C1-C2-N2-C7
5	A	607	BTB	O1-C1-C2-C3
5	A	607	BTB	N-C2-C3-O3
6	A	645	GOL	O1-C1-C2-C3
6	B	601	GOL	O1-C1-C2-O2
6	B	601	GOL	O1-C1-C2-C3
6	B	601	GOL	C1-C2-C3-O3
6	B	627	GOL	C1-C2-C3-O3
6	B	627	GOL	O2-C2-C3-O3
6	B	630	GOL	O2-C2-C3-O3
6	B	635	GOL	O1-C1-C2-C3
6	B	635	GOL	C1-C2-C3-O3
6	C	601	GOL	C1-C2-C3-O3
6	C	603	GOL	O1-C1-C2-C3
6	C	624	GOL	O1-C1-C2-O2
7	B	646	PEG	C4-C3-O2-C2
4	B	648	NAG	C4-C5-C6-O6
4	B	604	NAG	O5-C5-C6-O6
4	B	648	NAG	O5-C5-C6-O6
4	A	603	NAG	O5-C5-C6-O6
4	B	604	NAG	C4-C5-C6-O6
9	B	643	PGE	O2-C3-C4-O3
4	A	602	NAG	C4-C5-C6-O6
4	A	603	NAG	C4-C5-C6-O6
4	A	602	NAG	O5-C5-C6-O6
4	A	604	NAG	O5-C5-C6-O6
4	A	604	NAG	C4-C5-C6-O6
4	B	648	NAG	C8-C7-N2-C2
4	B	648	NAG	O7-C7-N2-C2
9	B	643	PGE	C1-C2-O2-C3
7	A	626	PEG	O1-C1-C2-O2
7	A	626	PEG	O2-C3-C4-O4
7	A	646	PEG	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
9	C	625	PGE	O1-C1-C2-O2
7	A	626	PEG	C4-C3-O2-C2
7	D	624	PEG	C1-C2-O2-C3
7	A	636	PEG	O2-C3-C4-O4
7	C	627	PEG	O1-C1-C2-O2
6	A	623	GOL	O1-C1-C2-C3
6	A	634	GOL	O1-C1-C2-C3
6	B	630	GOL	C1-C2-C3-O3
6	C	602	GOL	C1-C2-C3-O3
6	C	624	GOL	O1-C1-C2-C3
6	C	626	GOL	C1-C2-C3-O3
7	B	641	PEG	O1-C1-C2-O2
6	A	645	GOL	O1-C1-C2-O2
6	B	635	GOL	O1-C1-C2-O2
6	C	602	GOL	O2-C2-C3-O3
6	C	603	GOL	O1-C1-C2-O2
7	D	617	PEG	O1-C1-C2-O2
3	A	639	EDO	O1-C1-C2-O2
3	B	615	EDO	O1-C1-C2-O2
3	B	623	EDO	O1-C1-C2-O2
3	B	647	EDO	O1-C1-C2-O2
3	C	611	EDO	O1-C1-C2-O2
3	C	614	EDO	O1-C1-C2-O2
3	C	615	EDO	O1-C1-C2-O2
3	C	618	EDO	O1-C1-C2-O2
3	D	620	EDO	O1-C1-C2-O2
9	B	643	PGE	O1-C1-C2-O2
7	B	641	PEG	O2-C3-C4-O4
6	C	601	GOL	O2-C2-C3-O3
6	C	624	GOL	O2-C2-C3-O3
7	B	646	PEG	O2-C3-C4-O4
3	A	605	EDO	O1-C1-C2-O2
3	A	613	EDO	O1-C1-C2-O2
3	A	616	EDO	O1-C1-C2-O2
3	A	624	EDO	O1-C1-C2-O2
3	A	642	EDO	O1-C1-C2-O2
3	B	602	EDO	O1-C1-C2-O2
3	B	620	EDO	O1-C1-C2-O2
3	B	642	EDO	O1-C1-C2-O2
3	C	617	EDO	O1-C1-C2-O2
3	C	628	EDO	O1-C1-C2-O2
3	D	615	EDO	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
3	D	618	EDO	O1-C1-C2-O2
3	D	628	EDO	O1-C1-C2-O2
6	C	631	GOL	C1-C2-C3-O3
6	A	623	GOL	O1-C1-C2-O2
6	B	601	GOL	O2-C2-C3-O3
3	A	609	EDO	O1-C1-C2-O2
3	B	626	EDO	O1-C1-C2-O2
3	B	628	EDO	O1-C1-C2-O2
5	B	613	BTB	C8-C7-N-C5
6	B	635	GOL	O2-C2-C3-O3
9	B	643	PGE	C6-C5-O3-C4
9	C	625	PGE	C4-C3-O2-C2
7	A	636	PEG	O1-C1-C2-O2
7	C	627	PEG	O2-C3-C4-O4
7	D	624	PEG	O2-C3-C4-O4
3	C	630	EDO	O1-C1-C2-O2
7	D	617	PEG	C4-C3-O2-C2
7	C	627	PEG	C4-C3-O2-C2
5	A	607	BTB	O1-C1-C2-N
3	C	613	EDO	O1-C1-C2-O2
3	C	623	EDO	O1-C1-C2-O2
3	D	612	EDO	O1-C1-C2-O2
4	A	602	NAG	C3-C2-N2-C7
9	B	643	PGE	C3-C4-O3-C5
6	A	634	GOL	O1-C1-C2-O2
7	A	636	PEG	C1-C2-O2-C3
3	A	617	EDO	O1-C1-C2-O2
3	B	632	EDO	O1-C1-C2-O2
3	D	611	EDO	O1-C1-C2-O2
3	D	627	EDO	O1-C1-C2-O2
3	A	614	EDO	O1-C1-C2-O2
3	A	631	EDO	O1-C1-C2-O2
3	A	633	EDO	O1-C1-C2-O2
6	C	631	GOL	O2-C2-C3-O3
4	A	602	NAG	C1-C2-N2-C7
3	A	627	EDO	O1-C1-C2-O2
3	B	612	EDO	O1-C1-C2-O2
3	B	616	EDO	O1-C1-C2-O2
3	B	624	EDO	O1-C1-C2-O2
3	B	645	EDO	O1-C1-C2-O2
3	B	649	EDO	O1-C1-C2-O2
6	B	627	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
3	A	615	EDO	O1-C1-C2-O2
3	A	619	EDO	O1-C1-C2-O2
3	A	640	EDO	O1-C1-C2-O2
3	B	636	EDO	O1-C1-C2-O2
3	B	637	EDO	O1-C1-C2-O2
3	C	619	EDO	O1-C1-C2-O2
3	D	601	EDO	O1-C1-C2-O2
3	D	621	EDO	O1-C1-C2-O2
5	A	607	BTB	C1-C2-C3-O3
9	C	625	PGE	C3-C4-O3-C5
3	A	618	EDO	O1-C1-C2-O2
3	A	620	EDO	O1-C1-C2-O2
3	B	617	EDO	O1-C1-C2-O2
3	B	619	EDO	O1-C1-C2-O2
3	B	625	EDO	O1-C1-C2-O2
3	D	609	EDO	O1-C1-C2-O2
6	C	624	GOL	C1-C2-C3-O3
4	B	648	NAG	C3-C2-N2-C7
7	D	614	PEG	C4-C3-O2-C2
7	D	624	PEG	C4-C3-O2-C2

There are no ring outliers.

74 monomers are involved in 144 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	616	EDO	1	0
9	C	625	PGE	5	0
3	D	622	EDO	3	0
3	C	629	EDO	1	0
7	B	644	PEG	1	0
4	B	606	NAG	1	0
3	C	614	EDO	2	0
4	B	648	NAG	1	0
6	C	603	GOL	12	0
3	A	601	EDO	1	0
7	D	624	PEG	2	0
3	A	618	EDO	1	0
4	B	607	NAG	1	0
6	C	626	GOL	1	0
3	A	625	EDO	1	0
7	B	641	PEG	1	0
7	D	614	PEG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	619	EDO	1	0
6	C	624	GOL	4	0
3	B	628	EDO	2	0
6	A	623	GOL	1	0
3	A	609	EDO	1	0
3	A	611	EDO	1	0
3	C	630	EDO	4	0
6	C	601	GOL	1	0
3	C	628	EDO	1	0
6	C	602	GOL	4	0
3	B	653	EDO	1	0
3	D	618	EDO	1	0
3	D	625	EDO	1	0
3	B	612	EDO	1	0
3	C	618	EDO	1	0
3	A	627	EDO	5	0
3	B	618	EDO	1	0
3	B	640	EDO	1	0
6	A	634	GOL	2	0
3	C	621	EDO	3	0
3	B	622	EDO	1	0
3	B	633	EDO	1	0
7	A	646	PEG	5	0
6	A	645	GOL	3	0
3	A	605	EDO	3	0
6	B	651	GOL	3	0
3	D	627	EDO	1	0
3	A	638	EDO	1	0
3	B	610	EDO	1	0
3	C	604	EDO	1	0
7	C	627	PEG	4	0
3	B	645	EDO	1	0
3	B	650	EDO	1	0
3	A	631	EDO	1	0
3	C	623	EDO	1	0
3	D	615	EDO	1	0
7	B	646	PEG	3	0
3	A	612	EDO	1	0
3	B	620	EDO	1	0
3	D	611	EDO	1	0
3	A	643	EDO	3	0
3	A	637	EDO	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	621	EDO	1	0
3	A	624	EDO	7	0
3	D	626	EDO	4	0
3	A	633	EDO	1	0
3	B	642	EDO	2	0
3	B	616	EDO	3	0
3	D	619	EDO	1	0
3	D	628	EDO	1	0
7	A	636	PEG	2	0
7	A	626	PEG	1	0
7	D	617	PEG	2	0
3	B	654	EDO	1	0
9	B	643	PGE	8	0
6	C	631	GOL	5	0
3	C	615	EDO	1	0

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 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	497/541 (91%)	-0.46	5 (1%) 79 84	9, 21, 41, 63	6 (1%)
1	B	505/541 (93%)	-0.51	6 (1%) 76 82	11, 20, 38, 61	10 (1%)
1	C	496/541 (91%)	-0.48	10 (2%) 65 71	8, 19, 38, 72	9 (1%)
1	D	497/541 (91%)	-0.18	7 (1%) 73 80	14, 25, 40, 91	4 (0%)
All	All	1995/2164 (92%)	-0.41	28 (1%) 73 80	8, 21, 40, 91	29 (1%)

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	33	PRO	4.2
1	C	166	SER	3.9
1	C	167	GLY	3.8
1	C	160	THR	3.8
1	A	160	THR	3.6
1	C	168	CYS	3.5
1	C	360	SER	3.3
1	C	165	ASN	3.2
1	C	30	VAL	3.0
1	C	164	ALA	2.8
1	A	310	PHE	2.7
1	B	32	PHE	2.7
1	D	164	ALA	2.5
1	C	181	GLY	2.5
1	D	165	ASN	2.4
1	D	162	PRO	2.4
1	D	525	THR	2.4
1	D	166	SER	2.3
1	D	160	THR	2.3
1	D	51	TYR	2.3
1	B	160	THR	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	162	PRO	2.2
1	B	526	ASN	2.2
1	A	161	GLY	2.2
1	A	359	VAL	2.2
1	B	360	SER	2.1
1	B	165	ASN	2.1
1	A	360	SER	2.1

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

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

6.3 Carbohydrates [i](#)

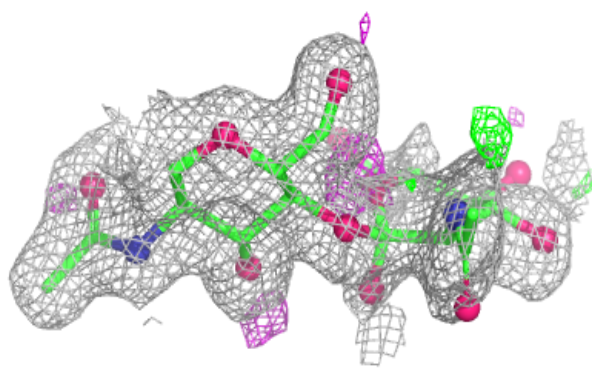
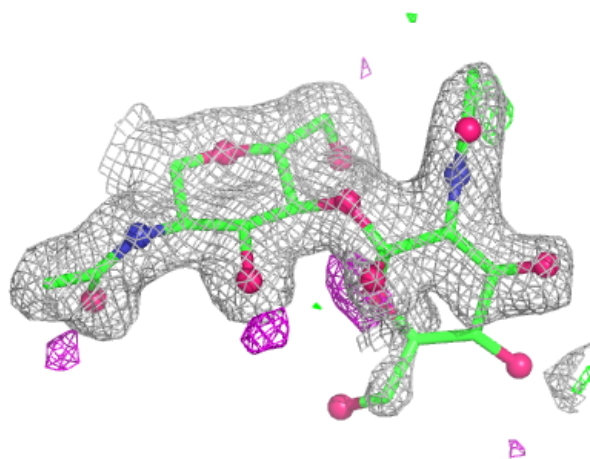
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

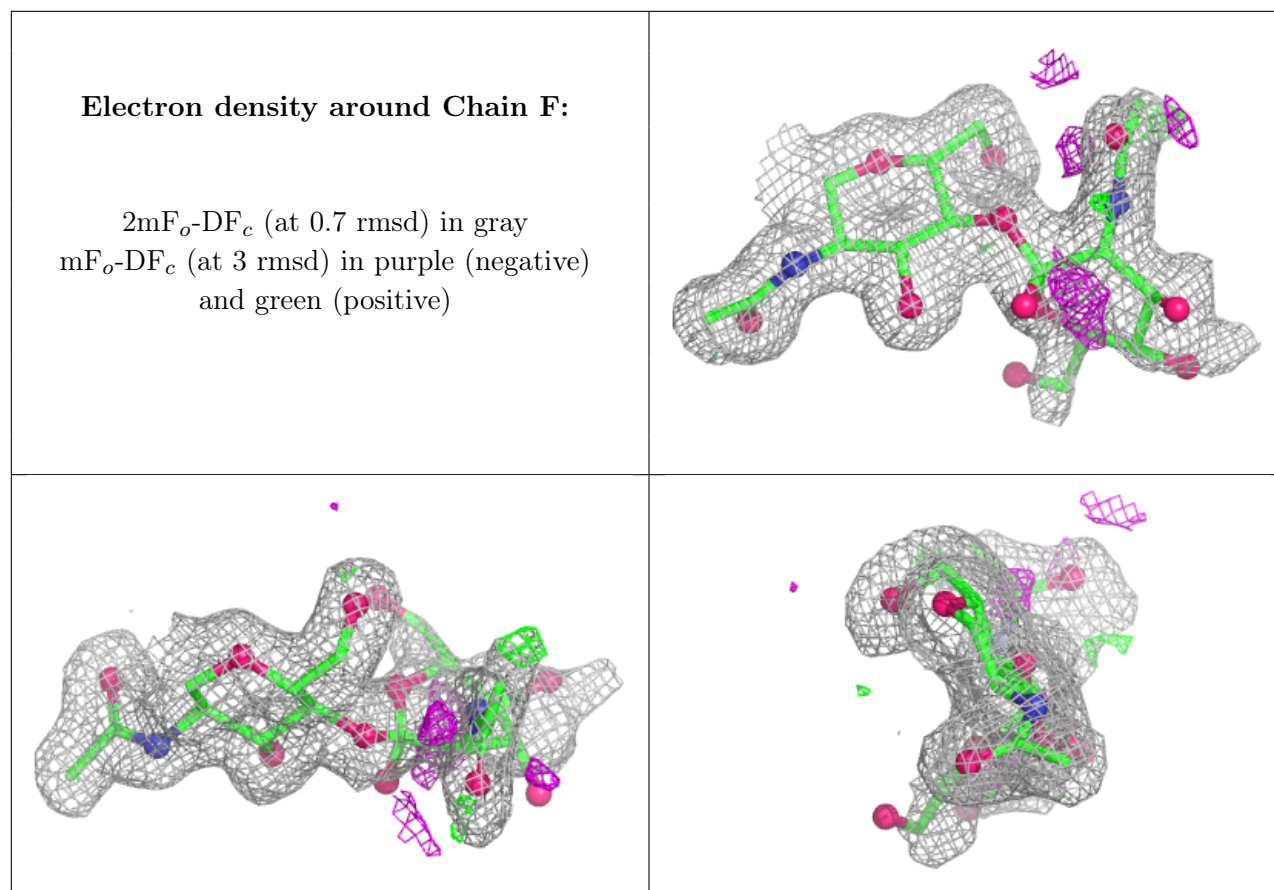
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	NAG	F	2	15/15	0.65	0.16	47,61,75,77	0
2	NAG	E	2	15/15	0.68	0.15	45,60,73,74	0
2	NAG	F	1	14/15	0.94	0.08	23,30,38,39	0
2	NAG	E	1	14/15	0.96	0.07	20,25,31,37	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around Chain E:

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





6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	NAG	B	648	15/15	0.64	0.19	41,68,90,91	0
3	EDO	D	625	4/4	0.66	0.15	51,62,62,64	0
3	EDO	B	638	4/4	0.71	0.16	56,57,58,62	0
3	EDO	C	613	4/4	0.71	0.13	46,48,54,63	0
3	EDO	C	619	4/4	0.72	0.21	43,45,48,55	0
7	PEG	A	626	7/7	0.72	0.17	46,54,58,67	0
4	NAG	A	604	14/15	0.73	0.12	34,59,73,78	0
3	EDO	B	650	4/4	0.73	0.20	47,50,67,76	0
3	EDO	C	617	4/4	0.73	0.16	37,38,47,50	0
3	EDO	D	613	4/4	0.74	0.19	40,46,48,48	0
3	EDO	A	640	4/4	0.74	0.14	50,57,58,59	0
3	EDO	A	620	4/4	0.74	0.17	41,44,48,59	0
3	EDO	A	622	4/4	0.74	0.20	37,43,44,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	GOL	C	601	6/6	0.74	0.12	54,65,68,73	0
3	EDO	C	633	4/4	0.74	0.17	53,62,64,64	0
7	PEG	B	641	7/7	0.74	0.18	52,57,69,74	0
3	EDO	B	624	4/4	0.75	0.19	40,43,51,55	0
3	EDO	A	617	4/4	0.75	0.19	35,45,47,48	0
7	PEG	D	617	7/7	0.75	0.15	36,47,57,60	0
3	EDO	D	612	4/4	0.76	0.21	46,48,55,59	0
3	EDO	B	647	4/4	0.77	0.18	39,46,54,58	0
3	EDO	D	631	4/4	0.77	0.17	40,44,55,64	0
3	EDO	B	633	4/4	0.77	0.14	57,57,59,62	0
3	EDO	D	623	4/4	0.77	0.12	51,54,56,57	0
6	GOL	A	630	6/6	0.78	0.12	64,67,69,76	0
3	EDO	C	615	4/4	0.78	0.20	36,41,49,58	0
3	EDO	A	615	4/4	0.78	0.19	41,44,53,55	0
3	EDO	B	649	4/4	0.78	0.15	52,53,55,55	0
7	PEG	B	644	7/7	0.78	0.16	43,52,57,58	0
3	EDO	C	622	4/4	0.78	0.13	52,58,62,62	0
4	NAG	B	607	14/15	0.79	0.12	33,50,70,71	0
3	EDO	B	639	4/4	0.79	0.22	48,50,51,54	0
3	EDO	B	640	4/4	0.79	0.19	33,44,44,46	0
3	EDO	C	623	4/4	0.79	0.15	40,44,48,49	0
3	EDO	D	627	4/4	0.79	0.18	41,44,46,68	0
3	EDO	B	620	4/4	0.79	0.18	33,42,45,46	0
3	EDO	B	632	4/4	0.79	0.23	39,44,52,56	0
4	NAG	B	604	14/15	0.79	0.13	31,42,57,62	0
3	EDO	D	607	4/4	0.80	0.16	41,47,49,50	0
3	EDO	C	616	4/4	0.80	0.15	36,42,43,50	0
3	EDO	A	624	4/4	0.80	0.25	29,43,47,55	0
4	NAG	D	605	14/15	0.80	0.12	38,54,65,76	0
3	EDO	A	642	4/4	0.80	0.22	43,47,48,51	0
3	EDO	A	613	4/4	0.81	0.15	38,38,42,46	0
3	EDO	B	602	4/4	0.81	0.15	50,50,51,54	0
6	GOL	B	630	6/6	0.81	0.14	42,44,47,52	0
3	EDO	B	626	4/4	0.81	0.23	36,43,47,56	0
3	EDO	D	608	4/4	0.82	0.14	33,38,50,51	0
6	GOL	C	631	6/6	0.82	0.12	39,42,45,52	0
3	EDO	B	617	4/4	0.82	0.12	34,35,44,49	0
3	EDO	A	621	4/4	0.82	0.13	43,51,53,65	0
3	EDO	D	620	4/4	0.82	0.12	45,53,55,60	0
3	EDO	C	611	4/4	0.82	0.13	41,41,42,46	0
9	PGE	C	625	10/10	0.82	0.14	21,33,44,45	0
6	GOL	B	601	6/6	0.83	0.13	48,51,55,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	EDO	A	632	4/4	0.83	0.14	43,46,56,58	0
4	NAG	A	602	14/15	0.83	0.12	25,40,51,55	0
3	EDO	A	639	4/4	0.83	0.14	33,33,41,54	0
3	EDO	C	629	4/4	0.83	0.17	41,42,44,45	0
3	EDO	B	619	4/4	0.83	0.21	51,52,53,55	0
3	EDO	A	605	4/4	0.83	0.19	37,37,44,47	0
3	EDO	A	631	4/4	0.83	0.14	35,44,45,55	0
7	PEG	D	624	7/7	0.83	0.14	34,47,55,66	0
3	EDO	D	628	4/4	0.83	0.15	35,49,54,61	0
3	EDO	A	609	4/4	0.84	0.16	39,43,47,48	0
6	GOL	B	635	6/6	0.84	0.13	41,43,48,50	0
3	EDO	C	628	4/4	0.84	0.19	38,41,49,51	0
3	EDO	B	625	4/4	0.84	0.13	41,44,45,50	0
3	EDO	A	619	4/4	0.84	0.14	40,41,47,47	0
7	PEG	A	646	7/7	0.84	0.15	25,28,40,50	0
3	EDO	A	637	4/4	0.84	0.16	47,47,52,53	0
4	NAG	C	605	14/15	0.84	0.12	26,29,35,35	0
3	EDO	A	616	4/4	0.84	0.18	38,39,48,49	0
3	EDO	D	629	4/4	0.84	0.13	45,57,57,61	0
3	EDO	A	625	4/4	0.84	0.14	42,46,50,51	0
3	EDO	B	645	4/4	0.85	0.18	43,44,48,48	0
3	EDO	B	616	4/4	0.85	0.16	30,42,49,54	0
3	EDO	A	643	4/4	0.85	0.17	36,39,40,64	0
3	EDO	A	627	4/4	0.85	0.41	33,33,40,43	0
3	EDO	D	615	4/4	0.85	0.20	33,43,47,50	0
4	NAG	C	606	14/15	0.85	0.10	24,42,53,57	0
4	NAG	D	603	14/15	0.85	0.10	27,41,60,69	0
3	EDO	D	619	4/4	0.85	0.15	31,42,43,59	0
7	PEG	B	646	7/7	0.85	0.14	23,33,38,40	0
3	EDO	B	603	4/4	0.85	0.14	28,31,38,44	0
6	GOL	A	634	6/6	0.85	0.12	35,46,47,53	0
9	PGE	B	643	10/10	0.85	0.14	26,37,45,47	0
4	NAG	A	603	14/15	0.85	0.11	33,48,73,76	0
3	EDO	D	611	4/4	0.86	0.13	35,47,47,52	0
3	EDO	B	612	4/4	0.86	0.14	37,41,44,44	0
7	PEG	A	636	7/7	0.86	0.12	34,43,48,52	0
3	EDO	B	642	4/4	0.86	0.22	31,32,34,47	0
3	EDO	B	622	4/4	0.86	0.17	38,39,40,44	0
3	EDO	D	618	4/4	0.86	0.12	31,44,44,49	0
3	EDO	C	630	4/4	0.86	0.16	35,41,46,54	0
7	PEG	D	614	7/7	0.86	0.13	30,35,52,61	0
3	EDO	A	628	4/4	0.86	0.17	35,40,49,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	EDO	C	621	4/4	0.86	0.17	30,34,41,42	0
3	EDO	C	614	4/4	0.86	0.14	30,37,47,48	0
3	EDO	D	626	4/4	0.86	0.27	36,37,37,38	0
3	EDO	A	611	4/4	0.87	0.16	33,40,42,50	0
3	EDO	B	629	4/4	0.87	0.12	37,39,43,51	0
6	GOL	A	623	6/6	0.87	0.11	38,44,50,62	0
3	EDO	A	629	4/4	0.87	0.14	26,29,34,42	0
3	EDO	C	610	4/4	0.87	0.16	39,47,50,51	0
3	EDO	B	621	4/4	0.87	0.14	38,41,43,66	0
3	EDO	B	636	4/4	0.87	0.14	42,48,49,56	0
3	EDO	B	628	4/4	0.88	0.17	36,47,53,64	0
3	EDO	C	604	4/4	0.88	0.20	34,44,50,74	0
6	GOL	C	626	6/6	0.88	0.13	29,37,38,58	0
3	EDO	D	616	4/4	0.88	0.14	38,40,45,46	0
3	EDO	A	641	4/4	0.88	0.10	38,39,49,51	0
6	GOL	C	624	6/6	0.89	0.17	21,29,32,37	0
6	GOL	A	645	6/6	0.89	0.15	29,34,37,37	0
7	PEG	C	627	7/7	0.89	0.11	24,28,44,49	0
3	EDO	B	653	4/4	0.89	0.20	36,38,44,53	0
3	EDO	C	618	4/4	0.89	0.14	29,36,39,55	0
4	NAG	B	605	14/15	0.89	0.10	27,40,57,69	0
3	EDO	D	622	4/4	0.89	0.12	36,45,49,57	0
6	GOL	C	603	6/6	0.89	0.16	23,36,43,48	0
3	EDO	C	620	4/4	0.90	0.11	36,40,48,52	0
6	GOL	B	651	6/6	0.90	0.21	24,31,35,42	0
5	BTB	A	607	14/14	0.90	0.10	26,34,39,42	0
6	GOL	C	602	6/6	0.90	0.23	25,32,41,49	0
3	EDO	B	637	4/4	0.90	0.14	25,31,33,50	0
3	EDO	B	611	4/4	0.90	0.10	37,37,39,41	0
3	EDO	A	614	4/4	0.90	0.13	26,30,35,49	0
3	EDO	B	615	4/4	0.90	0.12	26,26,33,39	0
4	NAG	D	602	14/15	0.90	0.09	33,37,47,50	0
3	EDO	B	623	4/4	0.90	0.10	36,38,45,51	0
3	EDO	B	618	4/4	0.91	0.12	26,27,35,41	0
3	EDO	B	610	4/4	0.91	0.10	28,34,34,37	0
3	EDO	A	635	4/4	0.91	0.10	39,44,44,58	0
4	NAG	D	604	14/15	0.92	0.08	26,28,35,35	0
3	EDO	D	621	4/4	0.92	0.13	39,44,48,51	0
6	GOL	B	627	6/6	0.92	0.18	19,36,40,43	0
3	EDO	A	618	4/4	0.93	0.10	46,47,48,49	0
3	EDO	C	612	4/4	0.93	0.09	21,27,28,37	0
5	BTB	B	613	14/14	0.93	0.08	24,30,35,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	EDO	A	638	4/4	0.93	0.12	28,30,32,42	0
3	EDO	B	631	4/4	0.93	0.11	34,36,36,38	0
3	EDO	D	610	4/4	0.94	0.09	25,26,27,29	0
3	EDO	A	612	4/4	0.94	0.12	27,28,32,34	0
3	EDO	A	608	4/4	0.94	0.07	20,23,25,27	0
3	EDO	B	634	4/4	0.94	0.08	30,36,38,41	0
3	EDO	C	608	4/4	0.94	0.10	17,20,24,26	0
3	EDO	A	610	4/4	0.95	0.10	22,26,37,44	0
3	EDO	A	601	4/4	0.95	0.08	29,31,32,33	0
3	EDO	D	601	4/4	0.95	0.10	29,40,40,42	0
3	EDO	D	606	4/4	0.95	0.06	27,27,29,30	0
4	NAG	B	606	14/15	0.95	0.06	19,23,29,32	0
3	EDO	B	654	4/4	0.95	0.10	30,34,34,37	0
3	EDO	A	606	4/4	0.96	0.07	22,26,31,35	0
3	EDO	A	633	4/4	0.96	0.11	22,28,34,35	0
3	EDO	D	609	4/4	0.96	0.07	25,26,28,31	0
3	EDO	A	644	4/4	0.96	0.07	31,31,32,34	0
3	EDO	B	608	4/4	0.97	0.06	21,21,22,24	0
3	EDO	C	607	4/4	0.97	0.06	22,23,25,29	0
3	EDO	B	614	4/4	0.97	0.06	23,26,27,29	0
3	EDO	B	609	4/4	0.98	0.06	22,24,25,29	0
3	EDO	C	609	4/4	0.98	0.05	21,23,26,32	0
8	ZN	C	632	1/1	1.00	0.01	16,16,16,16	0
8	ZN	D	630	1/1	1.00	0.02	22,22,22,22	0
8	ZN	A	647	1/1	1.00	0.01	18,18,18,18	0
8	ZN	B	652	1/1	1.00	0.01	17,17,17,17	0

6.5 Other polymers [i](#)

There are no such residues in this entry.