



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 17, 2024 – 12:01 PM EST

PDB ID : 1ACL  
Title : QUATERNARY LIGAND BINDING TO AROMATIC RESIDUES IN THE ACTIVE-SITE GORGE OF ACETYLCHOLINESTERASE  
Authors : Sussman, J.L.; Harel, M.; Silman, I.  
Deposited on : 1993-08-18  
Resolution : 2.80 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](mailto: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>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

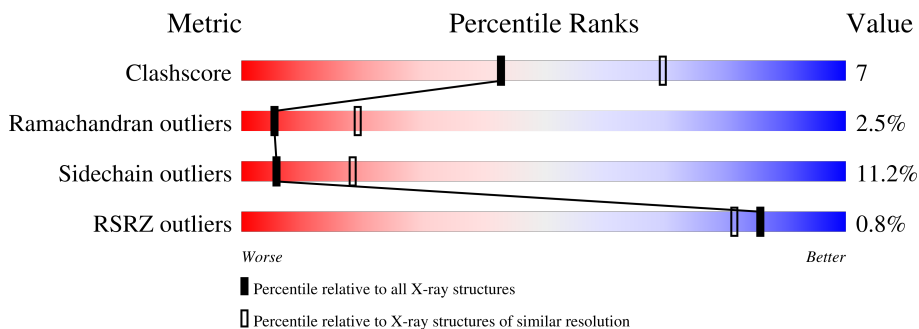
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 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))
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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  $\geq 3$ , 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	537	

## 2 Entry composition [i](#)

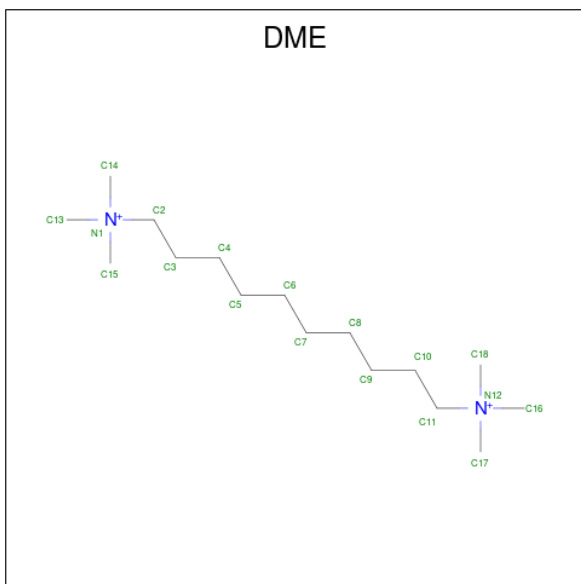
There are 3 unique types of molecules in this entry. The entry contains 4194 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ACETYLCHOLINESTERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	527	4110	2659	692	738	21	0	0	0

- Molecule 2 is DECAMETHONIUM ION (three-letter code: DME) (formula:  $C_{16}H_{38}N_2$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	N		
2	A	1	18	16	2	0	0

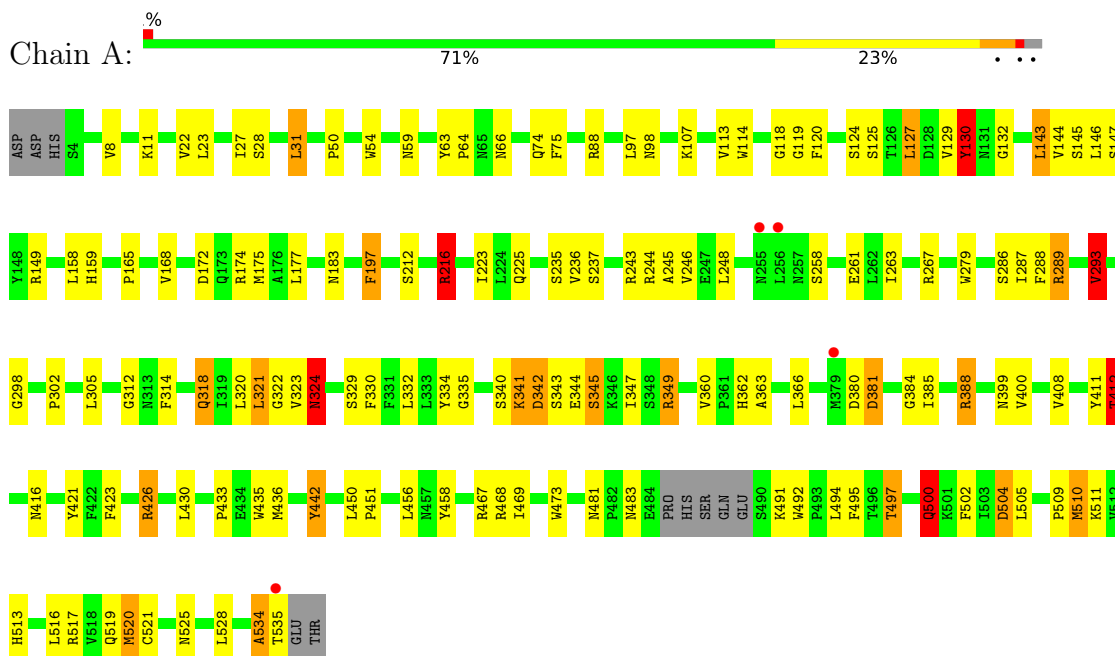
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	66	66	66	0	0

### 3 Residue-property plots

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

#### • Molecule 1: ACETYLCHOLINESTERASE



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	113.05Å 113.05Å 137.50Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	8.00 – 2.80 43.66 – 2.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.80) 90.4 (43.66-2.80)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.14 (at 2.81Å)	Xtrriage
Refinement program	X-PLOR	Depositor
R, $R_{free}$	0.199 , (Not available) 0.194 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	38.1	Xtrriage
Anisotropy	0.356	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 115.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.46$ , $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	0.030 for -h,-k,l	Xtrriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	4194	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.91% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 i

### 5.1 Standard geometry i

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

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	0.98	2/4228 (0.0%)	1.52	31/5745 (0.5%)

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	7

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	54	TRP	CD2-CE2	5.27	1.47	1.41
1	A	435	TRP	CD2-CE2	5.24	1.47	1.41

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	426	ARG	NE-CZ-NH2	-9.01	115.80	120.30
1	A	130	TYR	CB-CG-CD1	7.73	125.64	121.00
1	A	245	ALA	CB-CA-C	7.61	121.51	110.10
1	A	267	ARG	NE-CZ-NH2	-7.30	116.65	120.30
1	A	267	ARG	NE-CZ-NH1	7.11	123.86	120.30
1	A	165	PRO	C-N-CA	-6.80	108.02	122.30
1	A	388	ARG	NE-CZ-NH2	6.75	123.67	120.30
1	A	127	LEU	CB-CA-C	-6.65	97.56	110.20
1	A	216	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	A	286	SER	CB-CA-C	-6.36	98.02	110.10
1	A	504	ASP	N-CA-CB	6.31	121.95	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	293	VAL	N-CA-CB	-6.30	97.64	111.50
1	A	145	SER	CB-CA-C	-6.18	98.36	110.10
1	A	442	TYR	CB-CA-C	6.18	122.75	110.40
1	A	147	SER	CB-CA-C	-6.17	98.37	110.10
1	A	324	ASN	CB-CA-C	6.04	122.47	110.40
1	A	130	TYR	CB-CG-CD2	-6.01	117.39	121.00
1	A	23	LEU	CB-CA-C	5.81	121.23	110.20
1	A	344	GLU	CA-CB-CG	5.71	125.96	113.40
1	A	183	ASN	CB-CA-C	-5.70	99.00	110.40
1	A	244	ARG	NE-CZ-NH1	5.64	123.12	120.30
1	A	511	LYS	N-CA-CB	-5.64	100.45	110.60
1	A	494	LEU	CB-CA-C	-5.50	99.74	110.20
1	A	243	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	A	517	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	A	323	VAL	N-CA-CB	-5.42	99.57	111.50
1	A	412	THR	N-CA-CB	5.42	120.60	110.30
1	A	216	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	A	349	ARG	NE-CZ-NH1	5.27	122.94	120.30
1	A	245	ALA	N-CA-CB	5.19	117.37	110.10
1	A	458	TYR	CB-CG-CD1	-5.13	117.92	121.00

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	130	TYR	Sidechain
1	A	149	ARG	Sidechain
1	A	174	ARG	Sidechain
1	A	334	TYR	Sidechain
1	A	442	TYR	Sidechain
1	A	467	ARG	Sidechain
1	A	63	TYR	Sidechain

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4110	0	3944	55	0
2	A	18	0	38	2	0
3	A	66	0	0	0	0
All	All	4194	0	3982	55	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 7.

All (55) 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:324:ASN:HB3	1:A:423:PHE:HB3	1.76	0.66
1:A:341:LYS:O	1:A:342:ASP:HB2	2.00	0.62
1:A:408:VAL:O	1:A:412:THR:HG23	2.04	0.57
1:A:279:TRP:CZ2	2:A:999:DME:H143	2.41	0.54
1:A:158:LEU:HD12	1:A:263:ILE:HD11	1.90	0.53
1:A:127:LEU:HD12	1:A:130:TYR:CE2	2.43	0.53
1:A:347:ILE:O	1:A:384:GLY:HA2	2.11	0.50
1:A:312:GLY:HA2	1:A:314:PHE:CE2	2.46	0.50
1:A:31:LEU:HD12	1:A:98:ASN:HD22	1.76	0.49
1:A:341:LYS:O	1:A:342:ASP:CB	2.58	0.49
1:A:236:VAL:HG13	1:A:293:VAL:HG12	1.94	0.48
1:A:113:VAL:HG13	1:A:144:VAL:HG22	1.96	0.48
1:A:225:GLN:NE2	1:A:473:TRP:HE1	2.12	0.47
1:A:66:ASN:OD1	1:A:124:SER:HB3	2.14	0.47
1:A:495:PHE:CZ	1:A:500:GLN:HB3	2.50	0.47
1:A:495:PHE:CE2	1:A:500:GLN:HB3	2.49	0.47
1:A:279:TRP:CE2	2:A:999:DME:H143	2.50	0.47
1:A:305:LEU:HD12	1:A:305:LEU:N	2.30	0.47
1:A:314:PHE:CE1	1:A:411:TYR:CD2	3.03	0.47
1:A:66:ASN:ND2	1:A:88:ARG:HB2	2.31	0.46
1:A:534:ALA:O	1:A:535:THR:HB	2.16	0.46
1:A:132:GLY:HA3	1:A:143:LEU:HD22	1.98	0.45
1:A:289:ARG:NH2	1:A:399:ASN:OD1	2.49	0.45
1:A:168:VAL:O	1:A:172:ASP:OD1	2.33	0.45
1:A:349:ARG:HD3	1:A:381:ASP:O	2.17	0.45
1:A:345:SER:O	1:A:388:ARG:HG3	2.16	0.44
1:A:50:PRO:HA	1:A:175:MET:SD	2.57	0.44
1:A:258:SER:O	1:A:261:GLU:HB2	2.18	0.44
1:A:433:PRO:HD2	1:A:436:MET:SD	2.57	0.44
1:A:158:LEU:HD12	1:A:263:ILE:CD1	2.48	0.44
1:A:236:VAL:HG23	1:A:237:SER:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ILE:HD13	1:A:505:LEU:HD21	2.00	0.43
1:A:98:ASN:O	1:A:144:VAL:HA	2.19	0.43
1:A:114:TRP:HB2	1:A:197:PHE:CE1	2.54	0.43
1:A:225:GLN:HE21	1:A:473:TRP:HE1	1.68	0.42
1:A:287:ILE:HD11	1:A:332:LEU:HA	2.01	0.42
1:A:321:LEU:N	1:A:321:LEU:CD2	2.83	0.42
1:A:298:GLY:O	1:A:302:PRO:HA	2.19	0.42
1:A:520:MET:HE2	1:A:520:MET:HA	2.01	0.42
1:A:223:ILE:HA	1:A:320:LEU:O	2.19	0.42
1:A:502:PHE:CZ	1:A:513:HIS:HB2	2.55	0.42
1:A:119:GLY:O	1:A:120:PHE:HB2	2.20	0.41
1:A:146:LEU:C	1:A:146:LEU:HD12	2.41	0.41
1:A:64:PRO:HD3	1:A:98:ASN:HD21	1.85	0.41
1:A:31:LEU:HA	1:A:98:ASN:HD22	1.86	0.41
1:A:212:SER:O	1:A:216:ARG:HD2	2.20	0.41
1:A:521:CYS:O	1:A:525:ASN:HB2	2.21	0.41
1:A:107:LYS:HA	1:A:107:LYS:HE2	2.02	0.41
1:A:318:GLN:H	1:A:318:GLN:CD	2.24	0.41
1:A:322:GLY:HA3	1:A:421:TYR:CE1	2.56	0.41
1:A:362:HIS:CD2	1:A:362:HIS:H	2.38	0.41
1:A:360:VAL:HG12	1:A:363:ALA:HB2	2.04	0.40
1:A:468:ARG:HH22	1:A:510:MET:HB3	1.86	0.40
1:A:127:LEU:CD1	1:A:130:TYR:CE2	3.04	0.40
1:A:74:GLN:HG2	1:A:75:PHE:CE1	2.57	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	523/537 (97%)	462 (88%)	48 (9%)	13 (2%)	<b>5</b> <b>19</b>

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	345	SER
1	A	500	GLN
1	A	380	ASP
1	A	534	ALA
1	A	118	GLY
1	A	159	HIS
1	A	335	GLY
1	A	342	ASP
1	A	497	THR
1	A	329	SER
1	A	381	ASP
1	A	451	PRO
1	A	509	PRO

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	429/470 (91%)	381 (89%)	48 (11%)	<b>6</b> <b>18</b>

All (48) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	VAL
1	A	11	LYS
1	A	22	VAL
1	A	27	ILE
1	A	28	SER
1	A	31	LEU
1	A	59	ASN
1	A	97	LEU
1	A	125	SER
1	A	129	VAL
1	A	143	LEU
1	A	177	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	197	PHE
1	A	216	ARG
1	A	235	SER
1	A	246	VAL
1	A	248	LEU
1	A	288	PHE
1	A	289	ARG
1	A	293	VAL
1	A	318	GLN
1	A	321	LEU
1	A	324	ASN
1	A	330	PHE
1	A	340	SER
1	A	341	LYS
1	A	343	SER
1	A	366	LEU
1	A	385	ILE
1	A	400	VAL
1	A	412	THR
1	A	416	ASN
1	A	426	ARG
1	A	430	LEU
1	A	450	LEU
1	A	456	LEU
1	A	481	ASN
1	A	483	ASN
1	A	491	LYS
1	A	492	TRP
1	A	497	THR
1	A	500	GLN
1	A	504	ASP
1	A	510	MET
1	A	516	LEU
1	A	519	GLN
1	A	520	MET
1	A	528	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	59	ASN
1	A	98	ASN

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Mol	Chain	Res	Type
1	A	209	HIS
1	A	225	GLN
1	A	324	ASN
1	A	362	HIS
1	A	374	GLN
1	A	513	HIS

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

1 ligand is 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	DME	A	999	-	17,17,17	0.60	0	22,22,22	0.95	1 (4%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DME	A	999	-	-	2/15/15/15	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	999	DME	C2-C3-C4	2.10	119.17	110.67

There are no chirality outliers.

All (2) torsion outliers are listed below:

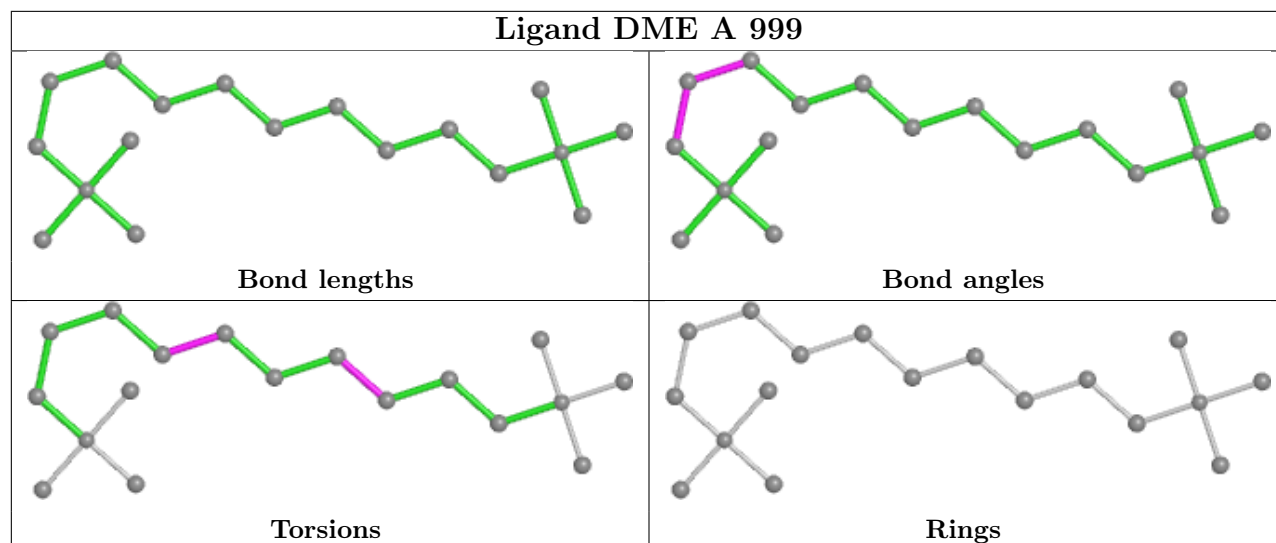
Mol	Chain	Res	Type	Atoms
2	A	999	DME	C7-C8-C9-C10
2	A	999	DME	C4-C5-C6-C7

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	999	DME	2	0

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



## 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 [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	527/537 (98%)	-0.61	4 (0%) 86 81	4, 19, 46, 83	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	535	THR	4.2
1	A	379	MET	2.4
1	A	255	ASN	2.4
1	A	256	LEU	2.0

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

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

### 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

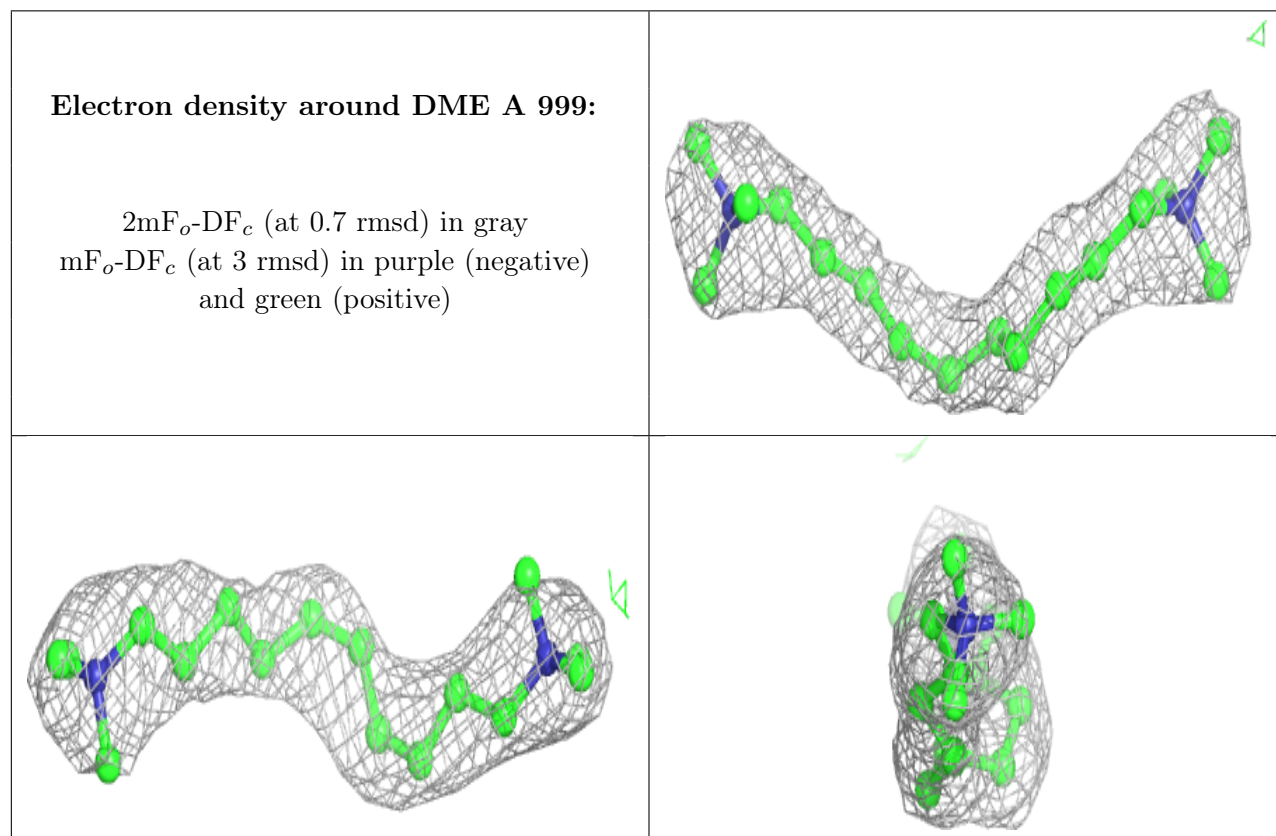
### 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
2	DME	A	999	18/18	0.97	0.14	12,20,26,28	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers

as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



## 6.5 Other polymers [i](#)

There are no such residues in this entry.