Full wwPDB EM Validation Report ⓘ

Dec 21, 2024 – 04:15 pm GMT

PDB ID	:	8RH5
EMDB ID	:	EMD-19168
Title	:	Oxiplasma meridianum archaellum
Authors	:	Isupov, M.N.; Gaines, M.; Daum, B.; McLaren, M.
Deposited on	:	2023-12-14
Resolution	:	2.54 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

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

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

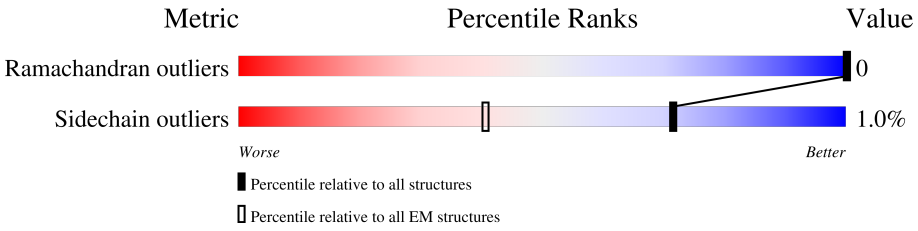
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

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 2.54 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)
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	A	230	9% 99%
1	B	230	6% 99%
1	C	230	5% 99%
1	D	230	99%
1	E	230	99%
1	F	230	99%
1	G	230	99%
1	H	230	99%
1	I	230	99%

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Mol	Chain	Length	Quality of chain
1	J	230	99%
1	K	230	99%
1	L	230	99%
1	M	230	99%
1	N	230	99%
1	O	230	99%
1	P	230	99%
1	Q	230	99%
1	R	230	99%
1	S	230	99%
1	T	230	99%
1	U	230	99%
1	V	230	99%
1	W	230	99%
1	X	230	99%
1	Y	230	99%
1	Z	230	100%
1	a	230	99%
1	b	230	99%
1	c	230	99%
1	d	230	99%
1	e	230	99%
1	f	230	99%
1	g	230	7% 99%
2	2	6	83% 100%

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Mol	Chain	Length	Quality of chain
2	3A	6	83% 100%
2	4B	6	83% 100%
2	5C	6	100% 100%
2	9	6	83% 100%
2	AB	6	83% 100%
2	BC	6	83% 100%
2	CD	6	100% 100%
2	GA	6	83% 100%
2	HB	6	83% 100%
2	IC	6	83% 100%
2	NA	6	83% 100%
2	OB	6	83% 100%
2	PC	6	83% 100%
2	UA	6	83% 100%
2	VB	6	83% 100%
2	WC	6	83% 100%
2	bA	6	83% 100%
2	cB	6	83% 100%
2	dC	6	83% 100%
2	h	6	83% 100%
2	iA	6	83% 100%
2	jB	6	83% 100%
2	kC	6	83% 100%
2	o	6	83% 100%
2	pA	6	83% 100%

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Mol	Chain	Length	Quality of chain
2	qB	6	83% 100%
2	rC	6	83% 100%
2	v	6	83% 100%
2	wA	6	83% 100%
2	xB	6	83% 100%
2	yC	6	100% 100%
3	0	5	60% 100%
3	0B	5	60% 100%
3	0C	5	60% 100%
3	1A	5	60% 100%
3	1C	5	60% 100%
3	2B	5	60% 100%
3	3C	5	60% 100%
3	4	5	60% 100%
3	5	5	60% 100%
3	5A	5	60% 100%
3	6A	5	60% 100%
3	6B	5	60% 100%
3	7	5	60% 100%
3	7B	5	60% 100%
3	7C	5	60% 100%
3	8A	5	60% 100%
3	8C	5	60% 100%
3	9B	5	60% 100%
3	AD	5	60% 100%

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Mol	Chain	Length	Quality of chain
3	BA	5	60% 100%
3	CA	5	60% 100%
3	CB	5	60% 100%
3	DB	5	60% 100%
3	DC	5	60% 100%
3	EA	5	60% 100%
3	EC	5	60% 100%
3	ED	5	80% 100%
3	FB	5	60% 100%
3	FD	5	60% 100%
3	GC	5	60% 100%
3	HD	5	80% 100%
3	IA	5	60% 100%
3	JA	5	60% 100%
3	JB	5	60% 100%
3	KB	5	60% 100%
3	KC	5	60% 100%
3	LA	5	60% 100%
3	LC	5	60% 100%
3	MB	5	60% 100%
3	NC	5	60% 100%
3	PA	5	60% 100%
3	QA	5	60% 100%
3	QB	5	60% 100%
3	RB	5	60% 100%

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Mol	Chain	Length	Quality of chain
3	RC	5	60% 100%
3	SA	5	60% 100%
3	SC	5	60% 100%
3	TB	5	60% 100%
3	UC	5	60% 100%
3	WA	5	60% 100%
3	XA	5	60% 100%
3	XB	5	60% 100%
3	YB	5	60% 100%
3	YC	5	60% 100%
3	ZA	5	60% 100%
3	ZC	5	60% 100%
3	aB	5	60% 100%
3	bC	5	60% 100%
3	dA	5	60% 100%
3	eA	5	60% 100%
3	eB	5	60% 100%
3	fB	5	60% 100%
3	fC	5	60% 100%
3	gA	5	60% 100%
3	gC	5	60% 100%
3	hB	5	60% 100%
3	iC	5	60% 100%
3	j	5	60% 100%
3	k	5	60% 100%

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Mol	Chain	Length	Quality of chain
3	kA	5	60% 100%
3	lA	5	60% 100%
3	lB	5	60% 100%
3	m	5	60% 100%
3	mB	5	60% 100%
3	mC	5	60% 100%
3	nA	5	60% 100%
3	nC	5	60% 100%
3	oB	5	60% 100%
3	pC	5	60% 100%
3	q	5	60% 100%
3	r	5	60% 100%
3	rA	5	60% 100%
3	sA	5	60% 100%
3	sB	5	60% 100%
3	t	5	60% 100%
3	tB	5	60% 100%
3	tC	5	60% 100%
3	uA	5	60% 100%
3	uC	5	60% 100%
3	vB	5	60% 100%
3	wC	5	60% 100%
3	x	5	60% 100%
3	y	5	60% 100%
3	yA	5	60% 100%

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Mol	Chain	Length	Quality of chain
3	zA	5	60% 100%
3	zB	5	60% 100%
4	0A	4	50% 100%
4	1	4	50% 100%
4	1B	4	50% 100%
4	2A	4	50% 100%
4	2C	4	75% 100%
4	3B	4	50% 100%
4	4C	4	50% 100%
4	6	4	50% 100%
4	7A	4	50% 100%
4	8	4	50% 100%
4	8B	4	50% 100%
4	9A	4	50% 100%
4	9C	4	75% 100%
4	AC	4	50% 100%
4	BD	4	50% 100%
4	DA	4	50% 100%
4	EB	4	50% 100%
4	FA	4	50% 100%
4	FC	4	50% 100%
4	GB	4	50% 100%
4	GD	4	75% 100%
4	HC	4	50% 100%
4	ID	4	75% 100%

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Mol	Chain	Length	Quality of chain
4	KA	4	50% 100%
4	LB	4	50% 100%
4	MA	4	50% 100%
4	MC	4	50% 100%
4	NB	4	50% 100%
4	OC	4	50% 100%
4	RA	4	50% 100%
4	SB	4	50% 100%
4	TA	4	50% 100%
4	TC	4	50% 100%
4	UB	4	50% 100%
4	VC	4	50% 100%
4	YA	4	50% 100%
4	ZB	4	50% 100%
4	aA	4	50% 100%
4	aC	4	50% 100%
4	bB	4	50% 100%
4	cC	4	50% 100%
4	fA	4	50% 100%
4	gB	4	50% 100%
4	hA	4	50% 100%
4	hC	4	50% 100%
4	iB	4	50% 100%
4	jC	4	50% 100%
4	l	4	50% 100%

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Mol	Chain	Length	Quality of chain
4	mA	4	50% 100%
4	n	4	50% 100%
4	nB	4	50% 100%
4	oA	4	50% 100%
4	oC	4	50% 100%
4	pB	4	50% 100%
4	qC	4	50% 100%
4	s	4	50% 100%
4	tA	4	50% 100%
4	u	4	50% 100%
4	uB	4	50% 100%
4	vA	4	50% 100%
4	vC	4	50% 100%
4	wB	4	50% 100%
4	xC	4	50% 100%
4	z	4	50% 100%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 67118 atoms, of which 0 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 Oxiplasma meridianum archaellum.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Z	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	V	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	A	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	B	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	C	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	D	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	E	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	F	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	G	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	H	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	I	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	J	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	K	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	L	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	M	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	N	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	O	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	P	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	Q	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	R	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	S	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	T	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	U	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	W	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	X	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	Y	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	a	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	b	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	c	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	d	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	e	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	f	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		
1	g	230	Total	C	N	O	S	0	0
			1678	1048	279	347	4		

- Molecule 2 is an oligosaccharide called alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	h	6	Total	C	O	S	0	0
			71	37	33	1		
2	o	6	Total	C	O	S	0	0
			71	37	33	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	v	6	Total	C	O	S	0	0
			71	37	33	1		
2	2	6	Total	C	O	S	0	0
			71	37	33	1		
2	9	6	Total	C	O	S	0	0
			71	37	33	1		
2	GA	6	Total	C	O	S	0	0
			71	37	33	1		
2	NA	6	Total	C	O	S	0	0
			71	37	33	1		
2	UA	6	Total	C	O	S	0	0
			71	37	33	1		
2	bA	6	Total	C	O	S	0	0
			71	37	33	1		
2	iA	6	Total	C	O	S	0	0
			71	37	33	1		
2	pA	6	Total	C	O	S	0	0
			71	37	33	1		
2	wA	6	Total	C	O	S	0	0
			71	37	33	1		
2	3A	6	Total	C	O	S	0	0
			71	37	33	1		
2	AB	6	Total	C	O	S	0	0
			71	37	33	1		
2	HB	6	Total	C	O	S	0	0
			71	37	33	1		
2	OB	6	Total	C	O	S	0	0
			71	37	33	1		
2	VB	6	Total	C	O	S	0	0
			71	37	33	1		
2	cB	6	Total	C	O	S	0	0
			71	37	33	1		
2	jB	6	Total	C	O	S	0	0
			71	37	33	1		
2	qB	6	Total	C	O	S	0	0
			71	37	33	1		
2	xB	6	Total	C	O	S	0	0
			71	37	33	1		
2	4B	6	Total	C	O	S	0	0
			71	37	33	1		
2	BC	6	Total	C	O	S	0	0
			71	37	33	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	IC	6	Total	C	O	S	0	0
			71	37	33	1		
2	PC	6	Total	C	O	S	0	0
			71	37	33	1		
2	WC	6	Total	C	O	S	0	0
			71	37	33	1		
2	dC	6	Total	C	O	S	0	0
			71	37	33	1		
2	kC	6	Total	C	O	S	0	0
			71	37	33	1		
2	rC	6	Total	C	O	S	0	0
			71	37	33	1		
2	yC	6	Total	C	O	S	0	0
			71	37	33	1		
2	5C	6	Total	C	O	S	0	0
			71	37	33	1		
2	CD	6	Total	C	O	S	0	0
			71	37	33	1		

- Molecule 3 is an oligosaccharide called L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	j	5	Total	C	O	S	0	0
			60	31	28	1		
3	k	5	Total	C	O	S	0	0
			60	31	28	1		
3	m	5	Total	C	O	S	0	0
			60	31	28	1		
3	q	5	Total	C	O	S	0	0
			60	31	28	1		
3	r	5	Total	C	O	S	0	0
			60	31	28	1		
3	t	5	Total	C	O	S	0	0
			60	31	28	1		
3	x	5	Total	C	O	S	0	0
			60	31	28	1		
3	y	5	Total	C	O	S	0	0
			60	31	28	1		
3	0	5	Total	C	O	S	0	0
			60	31	28	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	4	5	Total	C	O	S	0	0
			60	31	28	1		
3	5	5	Total	C	O	S	0	0
			60	31	28	1		
3	7	5	Total	C	O	S	0	0
			60	31	28	1		
3	BA	5	Total	C	O	S	0	0
			60	31	28	1		
3	CA	5	Total	C	O	S	0	0
			60	31	28	1		
3	EA	5	Total	C	O	S	0	0
			60	31	28	1		
3	IA	5	Total	C	O	S	0	0
			60	31	28	1		
3	JA	5	Total	C	O	S	0	0
			60	31	28	1		
3	LA	5	Total	C	O	S	0	0
			60	31	28	1		
3	PA	5	Total	C	O	S	0	0
			60	31	28	1		
3	QA	5	Total	C	O	S	0	0
			60	31	28	1		
3	SA	5	Total	C	O	S	0	0
			60	31	28	1		
3	WA	5	Total	C	O	S	0	0
			60	31	28	1		
3	XA	5	Total	C	O	S	0	0
			60	31	28	1		
3	ZA	5	Total	C	O	S	0	0
			60	31	28	1		
3	dA	5	Total	C	O	S	0	0
			60	31	28	1		
3	eA	5	Total	C	O	S	0	0
			60	31	28	1		
3	gA	5	Total	C	O	S	0	0
			60	31	28	1		
3	kA	5	Total	C	O	S	0	0
			60	31	28	1		
3	lA	5	Total	C	O	S	0	0
			60	31	28	1		
3	nA	5	Total	C	O	S	0	0
			60	31	28	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	rA	5	Total	C	O	S	0	0
			60	31	28	1		
3	sA	5	Total	C	O	S	0	0
			60	31	28	1		
3	uA	5	Total	C	O	S	0	0
			60	31	28	1		
3	yA	5	Total	C	O	S	0	0
			60	31	28	1		
3	zA	5	Total	C	O	S	0	0
			60	31	28	1		
3	1A	5	Total	C	O	S	0	0
			60	31	28	1		
3	5A	5	Total	C	O	S	0	0
			60	31	28	1		
3	6A	5	Total	C	O	S	0	0
			60	31	28	1		
3	8A	5	Total	C	O	S	0	0
			60	31	28	1		
3	CB	5	Total	C	O	S	0	0
			60	31	28	1		
3	DB	5	Total	C	O	S	0	0
			60	31	28	1		
3	FB	5	Total	C	O	S	0	0
			60	31	28	1		
3	JB	5	Total	C	O	S	0	0
			60	31	28	1		
3	KB	5	Total	C	O	S	0	0
			60	31	28	1		
3	MB	5	Total	C	O	S	0	0
			60	31	28	1		
3	QB	5	Total	C	O	S	0	0
			60	31	28	1		
3	RB	5	Total	C	O	S	0	0
			60	31	28	1		
3	TB	5	Total	C	O	S	0	0
			60	31	28	1		
3	XB	5	Total	C	O	S	0	0
			60	31	28	1		
3	YB	5	Total	C	O	S	0	0
			60	31	28	1		
3	aB	5	Total	C	O	S	0	0
			60	31	28	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	eB	5	Total	C	O	S	0	0
			60	31	28	1		
3	fB	5	Total	C	O	S	0	0
			60	31	28	1		
3	hB	5	Total	C	O	S	0	0
			60	31	28	1		
3	lB	5	Total	C	O	S	0	0
			60	31	28	1		
3	mB	5	Total	C	O	S	0	0
			60	31	28	1		
3	oB	5	Total	C	O	S	0	0
			60	31	28	1		
3	sB	5	Total	C	O	S	0	0
			60	31	28	1		
3	tB	5	Total	C	O	S	0	0
			60	31	28	1		
3	vB	5	Total	C	O	S	0	0
			60	31	28	1		
3	zB	5	Total	C	O	S	0	0
			60	31	28	1		
3	0B	5	Total	C	O	S	0	0
			60	31	28	1		
3	2B	5	Total	C	O	S	0	0
			60	31	28	1		
3	6B	5	Total	C	O	S	0	0
			60	31	28	1		
3	7B	5	Total	C	O	S	0	0
			60	31	28	1		
3	9B	5	Total	C	O	S	0	0
			60	31	28	1		
3	DC	5	Total	C	O	S	0	0
			60	31	28	1		
3	EC	5	Total	C	O	S	0	0
			60	31	28	1		
3	GC	5	Total	C	O	S	0	0
			60	31	28	1		
3	KC	5	Total	C	O	S	0	0
			60	31	28	1		
3	LC	5	Total	C	O	S	0	0
			60	31	28	1		
3	NC	5	Total	C	O	S	0	0
			60	31	28	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	RC	5	Total	C	O	S	0	0
			60	31	28	1		
3	SC	5	Total	C	O	S	0	0
			60	31	28	1		
3	UC	5	Total	C	O	S	0	0
			60	31	28	1		
3	YC	5	Total	C	O	S	0	0
			60	31	28	1		
3	ZC	5	Total	C	O	S	0	0
			60	31	28	1		
3	bC	5	Total	C	O	S	0	0
			60	31	28	1		
3	fC	5	Total	C	O	S	0	0
			60	31	28	1		
3	gC	5	Total	C	O	S	0	0
			60	31	28	1		
3	iC	5	Total	C	O	S	0	0
			60	31	28	1		
3	mC	5	Total	C	O	S	0	0
			60	31	28	1		
3	nC	5	Total	C	O	S	0	0
			60	31	28	1		
3	pC	5	Total	C	O	S	0	0
			60	31	28	1		
3	tC	5	Total	C	O	S	0	0
			60	31	28	1		
3	uC	5	Total	C	O	S	0	0
			60	31	28	1		
3	wC	5	Total	C	O	S	0	0
			60	31	28	1		
3	0C	5	Total	C	O	S	0	0
			60	31	28	1		
3	1C	5	Total	C	O	S	0	0
			60	31	28	1		
3	3C	5	Total	C	O	S	0	0
			60	31	28	1		
3	7C	5	Total	C	O	S	0	0
			60	31	28	1		
3	8C	5	Total	C	O	S	0	0
			60	31	28	1		
3	AD	5	Total	C	O	S	0	0
			60	31	28	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	ED	5	Total	C	O	S	0	0
			60	31	28	1		
3	FD	5	Total	C	O	S	0	0
			60	31	28	1		
3	HD	5	Total	C	O	S	0	0
			60	31	28	1		

- Molecule 4 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	l	4	Total	C	O	S	0	0
			47	24	22	1		
4	n	4	Total	C	O	S	0	0
			47	24	22	1		
4	s	4	Total	C	O	S	0	0
			47	24	22	1		
4	u	4	Total	C	O	S	0	0
			47	24	22	1		
4	z	4	Total	C	O	S	0	0
			47	24	22	1		
4	1	4	Total	C	O	S	0	0
			47	24	22	1		
4	6	4	Total	C	O	S	0	0
			47	24	22	1		
4	8	4	Total	C	O	S	0	0
			47	24	22	1		
4	DA	4	Total	C	O	S	0	0
			47	24	22	1		
4	FA	4	Total	C	O	S	0	0
			47	24	22	1		
4	KA	4	Total	C	O	S	0	0
			47	24	22	1		
4	MA	4	Total	C	O	S	0	0
			47	24	22	1		
4	RA	4	Total	C	O	S	0	0
			47	24	22	1		
4	TA	4	Total	C	O	S	0	0
			47	24	22	1		
4	YA	4	Total	C	O	S	0	0
			47	24	22	1		
4	aA	4	Total	C	O	S	0	0
			47	24	22	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
4	fA	4	Total	C	O	S	0	0
			47	24	22	1		
4	hA	4	Total	C	O	S	0	0
			47	24	22	1		
4	mA	4	Total	C	O	S	0	0
			47	24	22	1		
4	oA	4	Total	C	O	S	0	0
			47	24	22	1		
4	tA	4	Total	C	O	S	0	0
			47	24	22	1		
4	vA	4	Total	C	O	S	0	0
			47	24	22	1		
4	0A	4	Total	C	O	S	0	0
			47	24	22	1		
4	2A	4	Total	C	O	S	0	0
			47	24	22	1		
4	7A	4	Total	C	O	S	0	0
			47	24	22	1		
4	9A	4	Total	C	O	S	0	0
			47	24	22	1		
4	EB	4	Total	C	O	S	0	0
			47	24	22	1		
4	GB	4	Total	C	O	S	0	0
			47	24	22	1		
4	LB	4	Total	C	O	S	0	0
			47	24	22	1		
4	NB	4	Total	C	O	S	0	0
			47	24	22	1		
4	SB	4	Total	C	O	S	0	0
			47	24	22	1		
4	UB	4	Total	C	O	S	0	0
			47	24	22	1		
4	ZB	4	Total	C	O	S	0	0
			47	24	22	1		
4	bB	4	Total	C	O	S	0	0
			47	24	22	1		
4	gB	4	Total	C	O	S	0	0
			47	24	22	1		
4	iB	4	Total	C	O	S	0	0
			47	24	22	1		
4	nB	4	Total	C	O	S	0	0
			47	24	22	1		

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Mol	Chain	Residues	Atoms				AltConf	Trace
4	pB	4	Total	C	O	S	0	0
			47	24	22	1		
4	uB	4	Total	C	O	S	0	0
			47	24	22	1		
4	wB	4	Total	C	O	S	0	0
			47	24	22	1		
4	1B	4	Total	C	O	S	0	0
			47	24	22	1		
4	3B	4	Total	C	O	S	0	0
			47	24	22	1		
4	8B	4	Total	C	O	S	0	0
			47	24	22	1		
4	AC	4	Total	C	O	S	0	0
			47	24	22	1		
4	FC	4	Total	C	O	S	0	0
			47	24	22	1		
4	HC	4	Total	C	O	S	0	0
			47	24	22	1		
4	MC	4	Total	C	O	S	0	0
			47	24	22	1		
4	OC	4	Total	C	O	S	0	0
			47	24	22	1		
4	TC	4	Total	C	O	S	0	0
			47	24	22	1		
4	VC	4	Total	C	O	S	0	0
			47	24	22	1		
4	aC	4	Total	C	O	S	0	0
			47	24	22	1		
4	cC	4	Total	C	O	S	0	0
			47	24	22	1		
4	hC	4	Total	C	O	S	0	0
			47	24	22	1		
4	jC	4	Total	C	O	S	0	0
			47	24	22	1		
4	oC	4	Total	C	O	S	0	0
			47	24	22	1		
4	qC	4	Total	C	O	S	0	0
			47	24	22	1		
4	vC	4	Total	C	O	S	0	0
			47	24	22	1		
4	xC	4	Total	C	O	S	0	0
			47	24	22	1		

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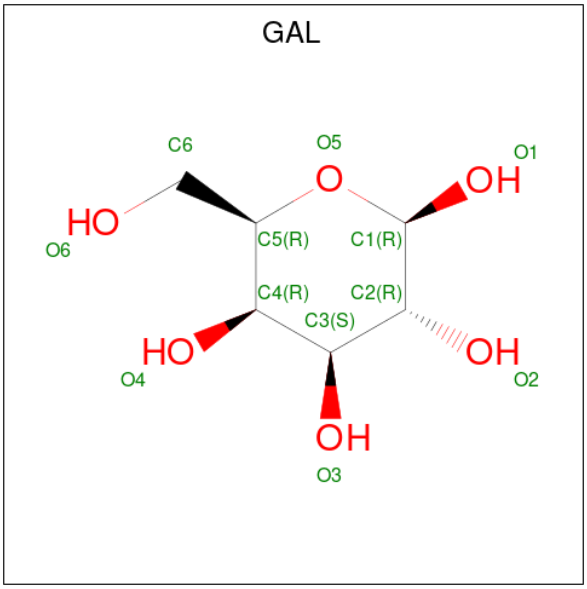
Mol	Chain	Residues	Atoms				AltConf	Trace
4	2C	4	Total	C	O	S	0	0
			47	24	22	1		
4	4C	4	Total	C	O	S	0	0
			47	24	22	1		
4	9C	4	Total	C	O	S	0	0
			47	24	22	1		
4	BD	4	Total	C	O	S	0	0
			47	24	22	1		
4	GD	4	Total	C	O	S	0	0
			47	24	22	1		
4	ID	4	Total	C	O	S	0	0
			47	24	22	1		

- Molecule 5 is beta-D-galactopyranose (three-letter code: GAL) (formula: $C_6H_{12}O_6$).



Mol	Chain	Residues	Atoms			AltConf
5	V	1	Total	C	O	0
			11	6	5	
5	V	1	Total	C	O	0
			11	6	5	
5	A	1	Total	C	O	0
			11	6	5	
5	A	1	Total	C	O	0
			11	6	5	
5	B	1	Total	C	O	0
			11	6	5	

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Mol	Chain	Residues	Atoms	AltConf
5	B	1	Total C O 11 6 5	0
5	C	1	Total C O 11 6 5	0
5	C	1	Total C O 11 6 5	0
5	D	1	Total C O 11 6 5	0
5	D	1	Total C O 11 6 5	0
5	E	1	Total C O 11 6 5	0
5	E	1	Total C O 11 6 5	0
5	F	1	Total C O 11 6 5	0
5	F	1	Total C O 11 6 5	0
5	G	1	Total C O 11 6 5	0
5	G	1	Total C O 11 6 5	0
5	H	1	Total C O 11 6 5	0
5	H	1	Total C O 11 6 5	0
5	I	1	Total C O 11 6 5	0
5	I	1	Total C O 11 6 5	0
5	J	1	Total C O 11 6 5	0
5	J	1	Total C O 11 6 5	0
5	K	1	Total C O 11 6 5	0
5	K	1	Total C O 11 6 5	0
5	L	1	Total C O 11 6 5	0
5	L	1	Total C O 11 6 5	0

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Mol	Chain	Residues	Atoms	AltConf
5	M	1	Total C O 11 6 5	0
5	M	1	Total C O 11 6 5	0
5	N	1	Total C O 11 6 5	0
5	N	1	Total C O 11 6 5	0
5	O	1	Total C O 11 6 5	0
5	O	1	Total C O 11 6 5	0
5	P	1	Total C O 11 6 5	0
5	P	1	Total C O 11 6 5	0
5	Q	1	Total C O 11 6 5	0
5	Q	1	Total C O 11 6 5	0
5	R	1	Total C O 11 6 5	0
5	R	1	Total C O 11 6 5	0
5	S	1	Total C O 11 6 5	0
5	S	1	Total C O 11 6 5	0
5	T	1	Total C O 11 6 5	0
5	T	1	Total C O 11 6 5	0
5	U	1	Total C O 11 6 5	0
5	U	1	Total C O 11 6 5	0
5	W	1	Total C O 11 6 5	0
5	W	1	Total C O 11 6 5	0
5	X	1	Total C O 11 6 5	0

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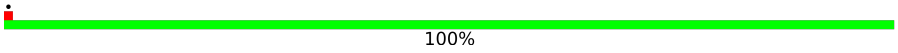
Mol	Chain	Residues	Atoms	AltConf
5	X	1	Total C O 11 6 5	0
5	Y	1	Total C O 11 6 5	0
5	Y	1	Total C O 11 6 5	0
5	a	1	Total C O 11 6 5	0
5	a	1	Total C O 11 6 5	0
5	b	1	Total C O 11 6 5	0
5	b	1	Total C O 11 6 5	0
5	c	1	Total C O 11 6 5	0
5	c	1	Total C O 11 6 5	0
5	d	1	Total C O 11 6 5	0
5	d	1	Total C O 11 6 5	0
5	e	1	Total C O 11 6 5	0
5	e	1	Total C O 11 6 5	0
5	f	1	Total C O 11 6 5	0
5	f	1	Total C O 11 6 5	0
5	g	1	Total C O 11 6 5	0
5	g	1	Total C O 11 6 5	0

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.

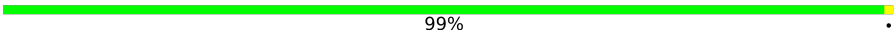
• Molecule 1: Oxiplasma meridianum archaellum

Chain Z:



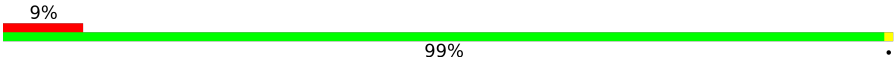
• Molecule 1: Oxiplasma meridianum archaellum

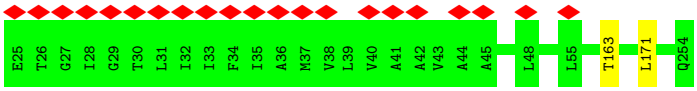
Chain V:



• Molecule 1: Oxiplasma meridianum archaellum

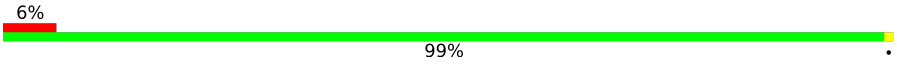
Chain A:

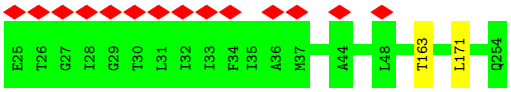




• Molecule 1: Oxiplasma meridianum archaellum

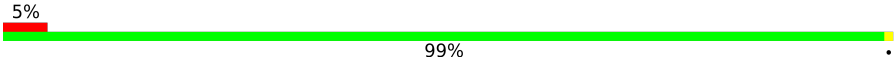
Chain B:

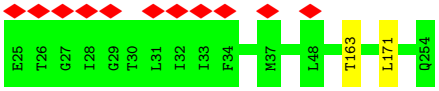




• Molecule 1: Oxiplasma meridianum archaellum

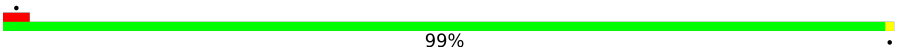
Chain C:

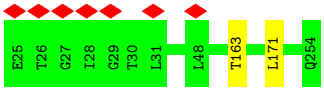




• Molecule 1: Oxiplasma meridianum archaellum

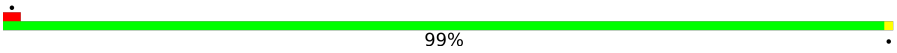
Chain D:

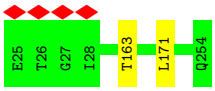




• Molecule 1: Oxiplasma meridianum archaellum

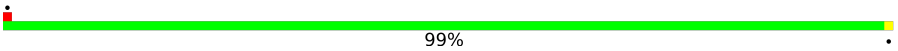
Chain E:

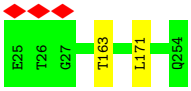




• Molecule 1: Oxiplasma meridianum archaellum

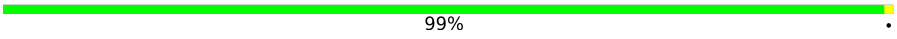
Chain F:

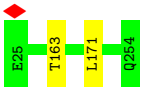




• Molecule 1: Oxiplasma meridianum archaellum

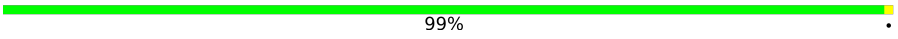
Chain G:





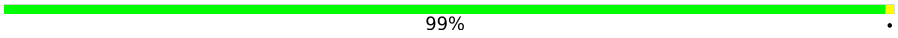
• Molecule 1: Oxiplasma meridianum archaellum

Chain H:



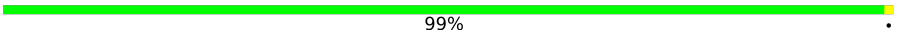
• Molecule 1: Oxiplasma meridianum archaellum

Chain I:

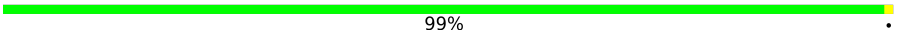


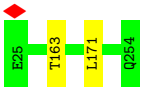
• Molecule 1: Oxiplasma meridianum archaellum

Chain J:

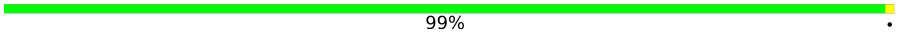


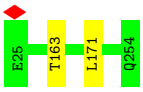
• Molecule 1: Oxiplasma meridianum archaellum

Chain K: 

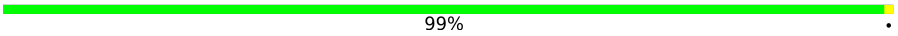


• Molecule 1: Oxiplasma meridianum archaellum

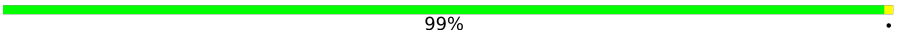
Chain L: 



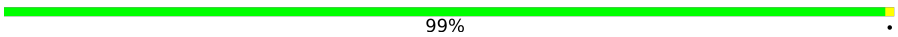
• Molecule 1: Oxiplasma meridianum archaellum

Chain M: 

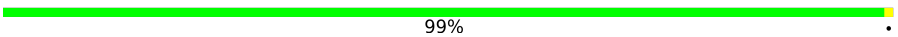
• Molecule 1: Oxiplasma meridianum archaellum

Chain N: 

• Molecule 1: Oxiplasma meridianum archaellum

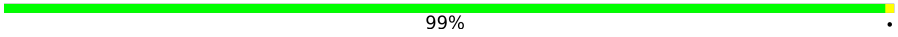
Chain O: 

• Molecule 1: Oxiplasma meridianum archaellum

Chain P: 

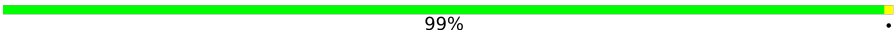
• Molecule 1: Oxiplasma meridianum archaellum

Chain Q:



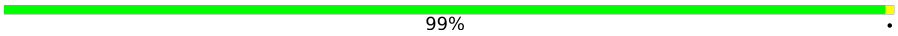
• Molecule 1: Oxiplasma meridianum archaellum

Chain R:



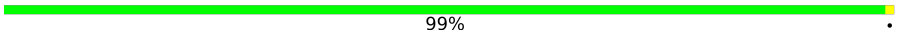
• Molecule 1: Oxiplasma meridianum archaellum

Chain S:



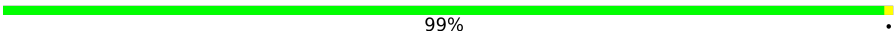
• Molecule 1: Oxiplasma meridianum archaellum

Chain T:



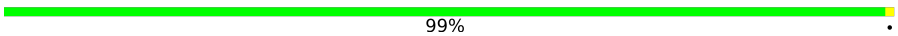
• Molecule 1: Oxiplasma meridianum archaellum

Chain U:



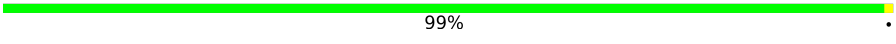
• Molecule 1: Oxiplasma meridianum archaellum

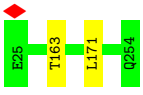
Chain W:



• Molecule 1: Oxiplasma meridianum archaellum

Chain X:



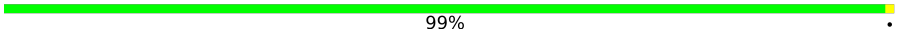


• Molecule 1: Oxiplasma meridianum archaellum

Chain Y:

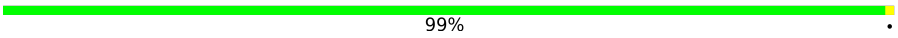
• Molecule 1: Oxiplasma meridianum archaellum

Chain a:



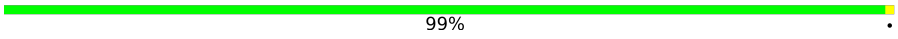
• Molecule 1: Oxiplasma meridianum archaellum

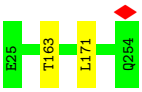
Chain b:



• Molecule 1: Oxiplasma meridianum archaellum

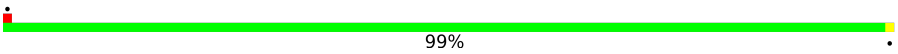
Chain c:





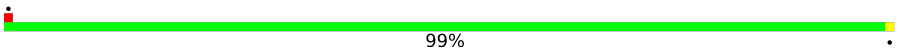
• Molecule 1: Oxiplasma meridianum archaellum

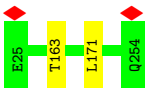
Chain d:



• Molecule 1: Oxiplasma meridianum archaellum

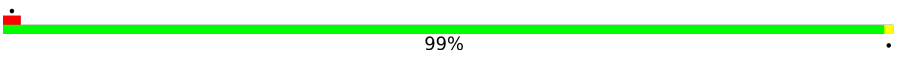
Chain e:

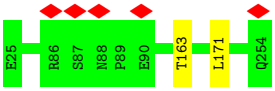




• Molecule 1: Oxiplasma meridianum archaellum

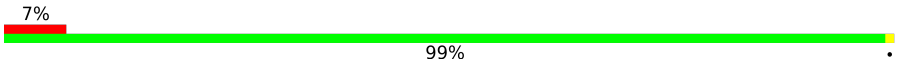
Chain f:

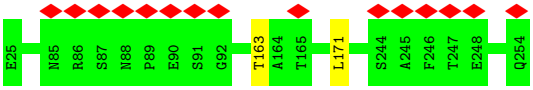




• Molecule 1: Oxiplasma meridianum archaellum

Chain g:



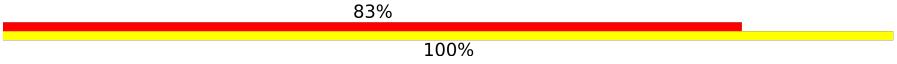


• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain h:

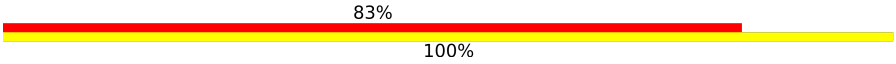
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain o:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain v:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

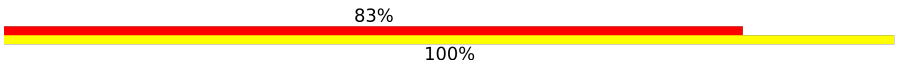
Chain 2:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 9:

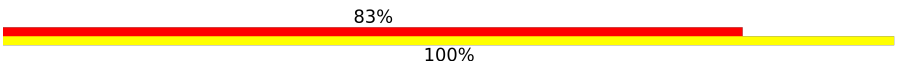
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain GA:



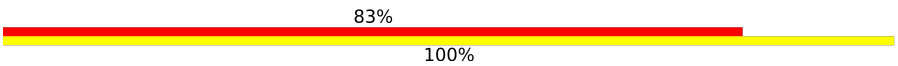
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain NA:



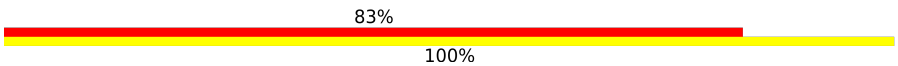
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain UA:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain bA:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

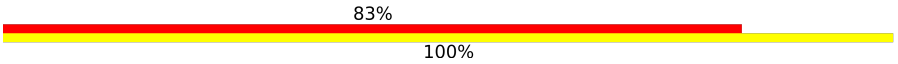
Chain iA:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain pA:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain wA:

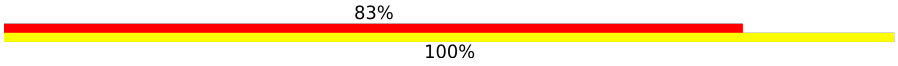


• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 3A:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain AB:

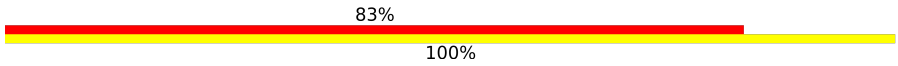


• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain HB:

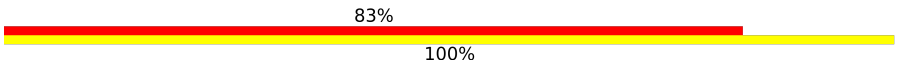
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain OB:



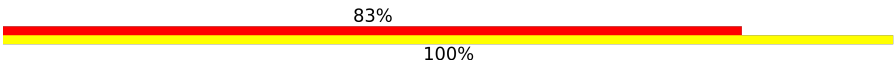
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain VB:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain cB:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain jB:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain qB:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain xB:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 4B:

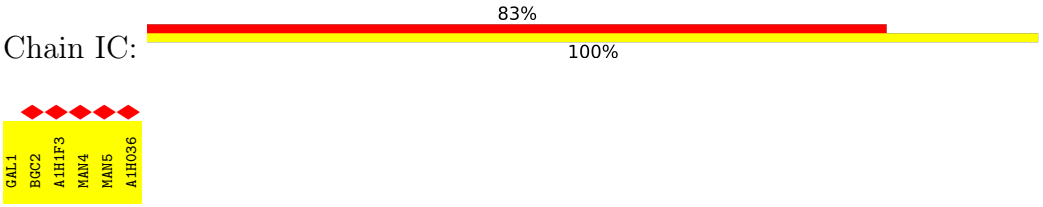
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain BC:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyran

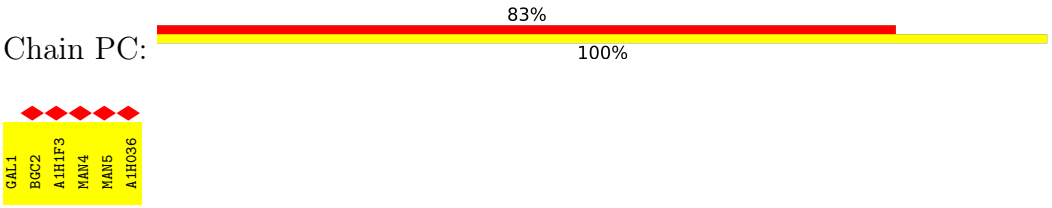
ose-(1-3)-beta-D-galactopyranose

Chain IC:



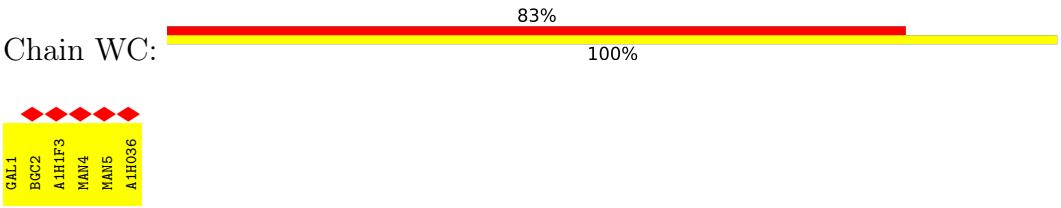
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain PC:



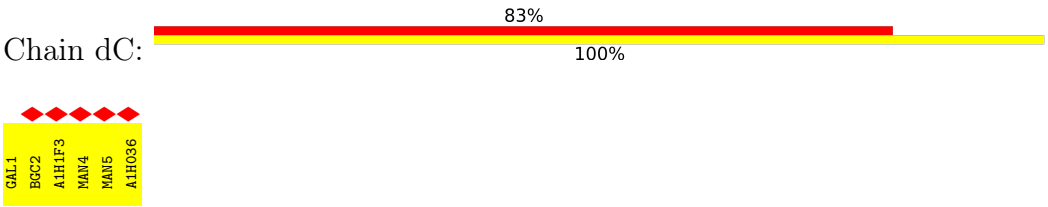
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain WC:



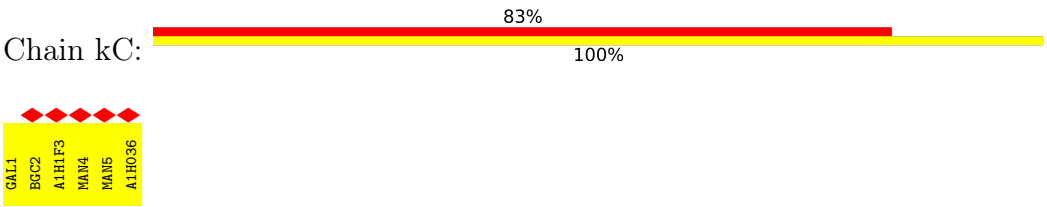
• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain dC:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain kC:



• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain rC:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

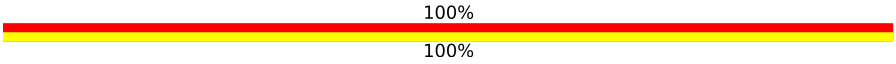
Chain yC:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 5C:

• Molecule 2: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-3)-[L-glycero-alpha-D-galacto-heptopyranose-(1-2)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain CD:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

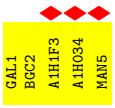
Chain j:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain k:

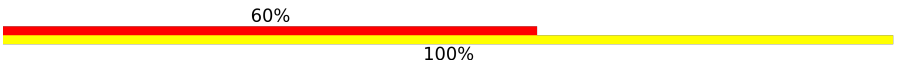
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain m:



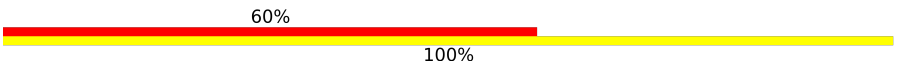
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain q:



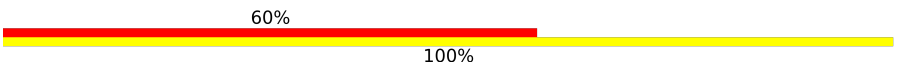
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain r:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain t:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain x:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

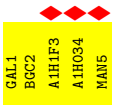
Chain y:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 0:

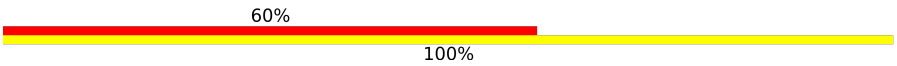
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 4:



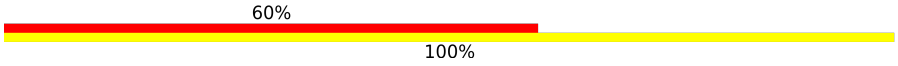
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 5:



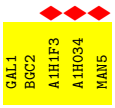
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 7:



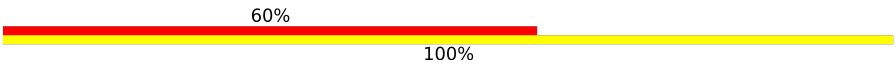
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain BA:



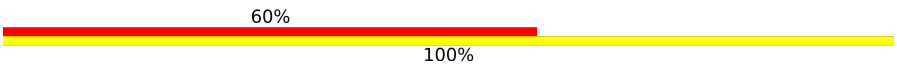
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain CA:



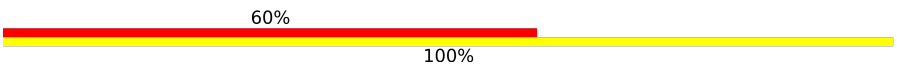
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain EA:



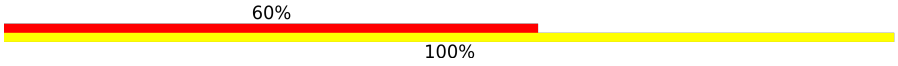
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

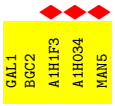
Chain IA:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

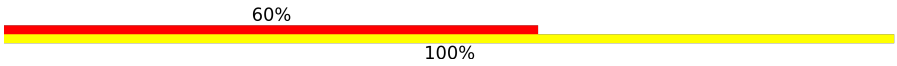
Chain JA:

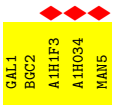




• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

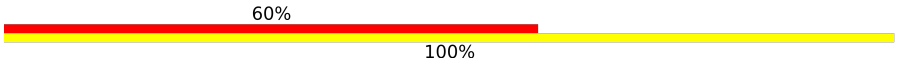
Chain LA:

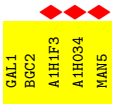




• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain PA:



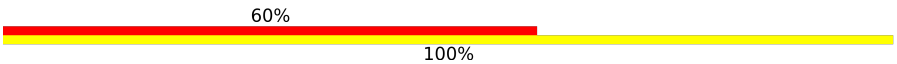


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain QA:

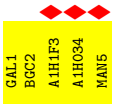
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain SA:



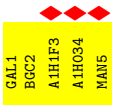
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain WA:



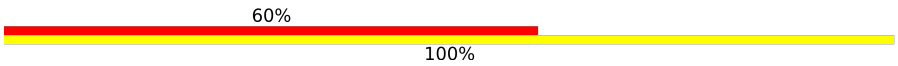
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain XA:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain ZA:

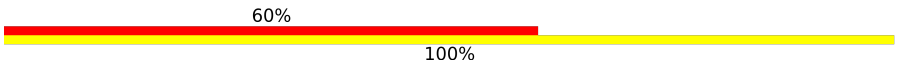


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain dA:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain eA:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

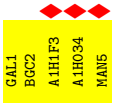
Chain gA:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain kA:

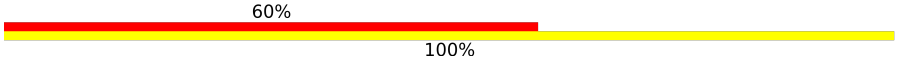
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

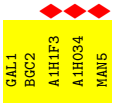
Chain lA:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain nA:



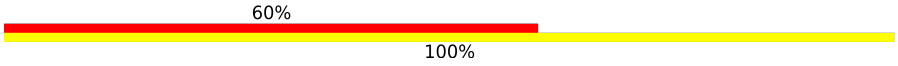


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain rA:

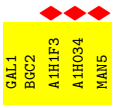
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain sA:



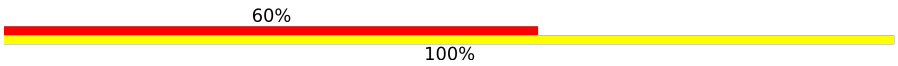
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain uA:



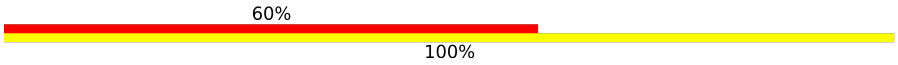
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain yA:



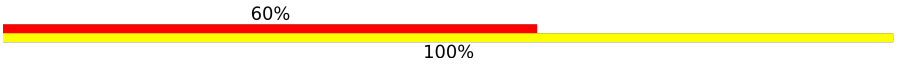
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain zA:



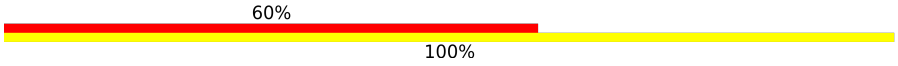
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

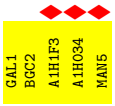
Chain 1A:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

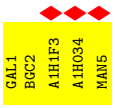
Chain 5A:





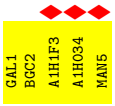
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 6A:



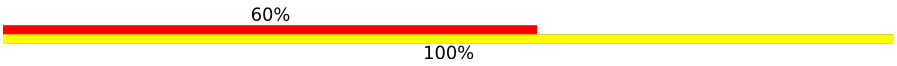
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 8A:



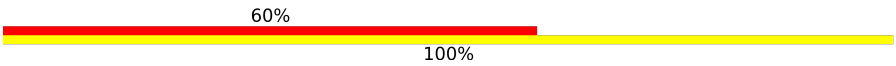
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain CB:



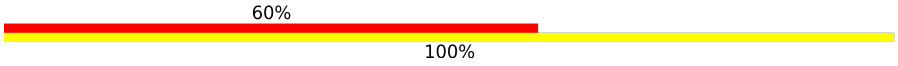
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

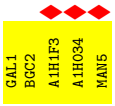
Chain DB:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

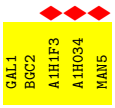
Chain FB:





• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain JB:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

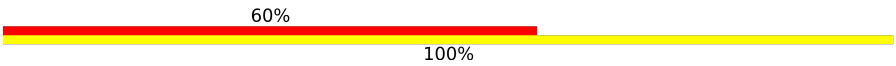
Chain KB:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain MB:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain QB:

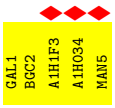


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain RB:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain TB:

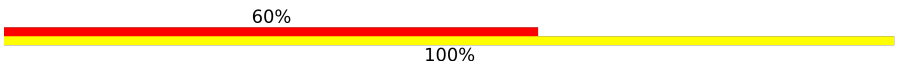


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain XB:

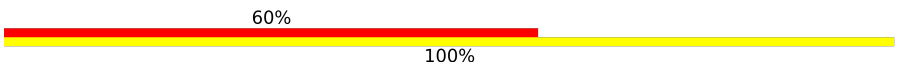
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain YB:



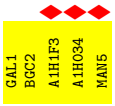
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain aB:



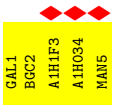
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain eB:



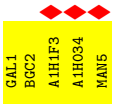
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain fB:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain hB:

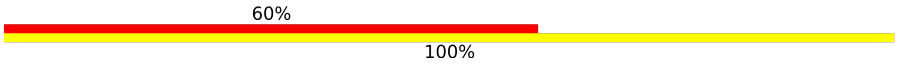


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain lB:

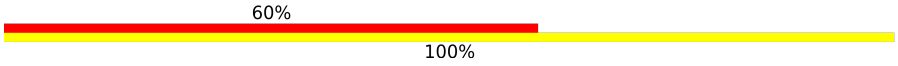
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

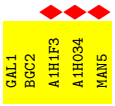
Chain mB:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

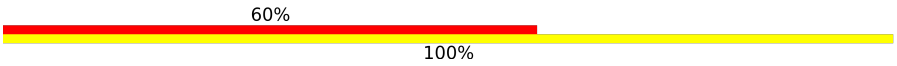
Chain oB:

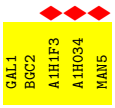




• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

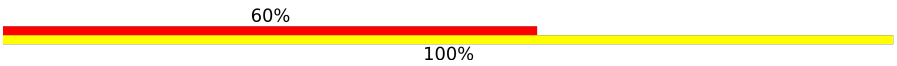
Chain sB:





• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain tB:

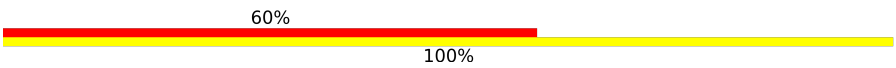


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain vB:

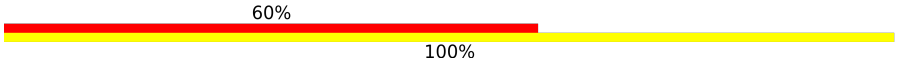
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

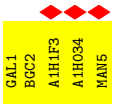
Chain zB:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

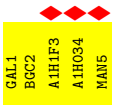
Chain 0B:





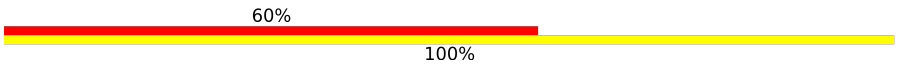
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 2B:



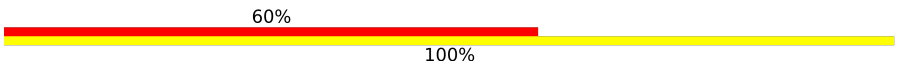
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 6B:



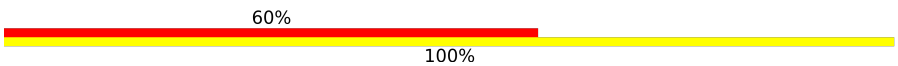
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 7B:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 9B:

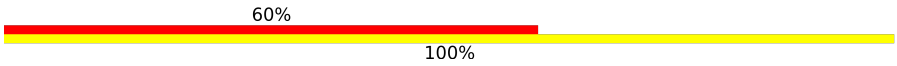


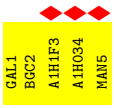
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain DC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain EC:





• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

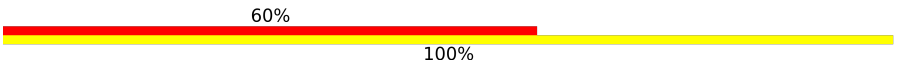
Chain GC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain KC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain LC:

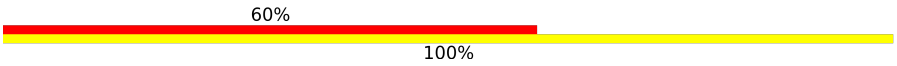


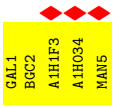
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain NC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

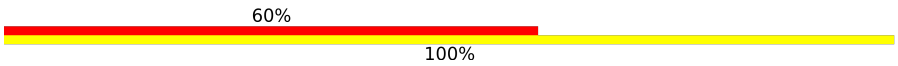
Chain RC:





• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain SC:

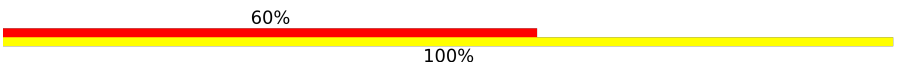


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain UC:

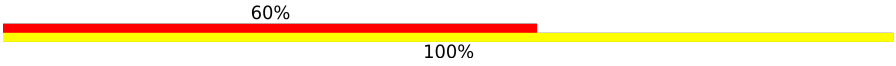
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

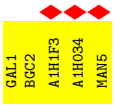
Chain YC:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

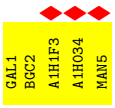
Chain ZC:





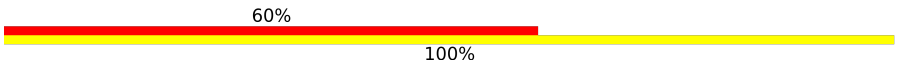
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain bC:



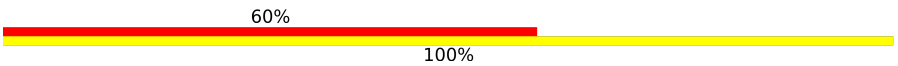
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain fC:



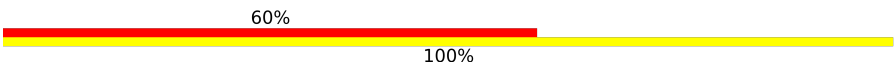
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain gC:



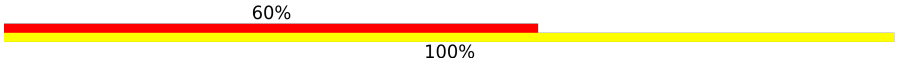
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

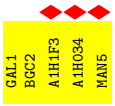
Chain iC:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

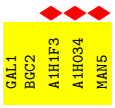
Chain mC:





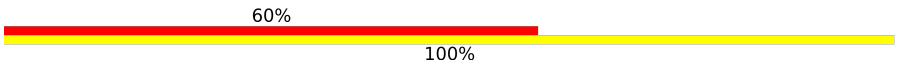
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain nC:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain pC:

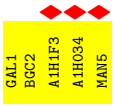


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain tC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain uC:

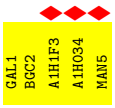


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain wC:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 0C:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

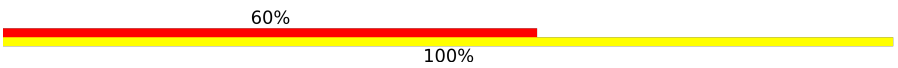
Chain 1C:

• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 3C:

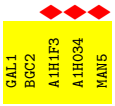
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 7C:



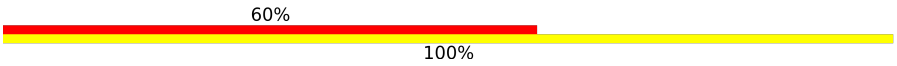
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

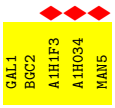
Chain 8C:



• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain AD:



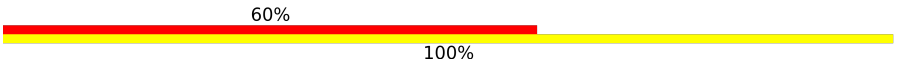


• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain ED:

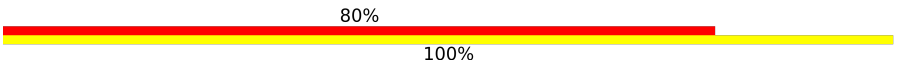
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain FD:



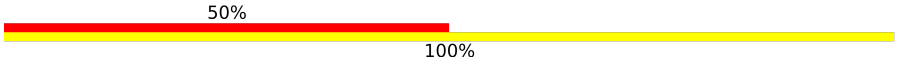
• Molecule 3: L-glycero-alpha-D-galacto-heptopyranose-(1-2)-[alpha-D-mannopyranose-(1-3)]6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain HD:



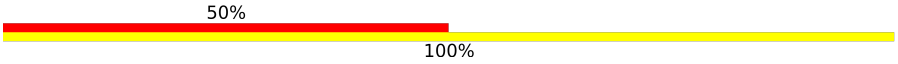
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain l:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain n:

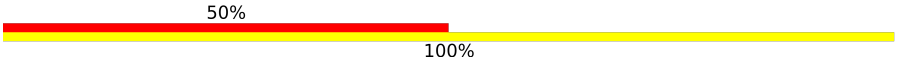


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain s:

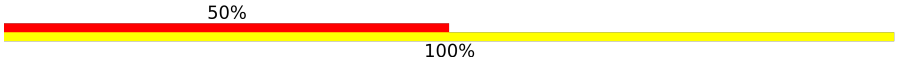
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain u:



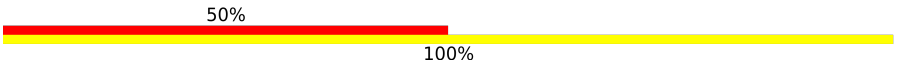
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain z:

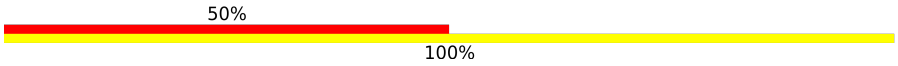


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

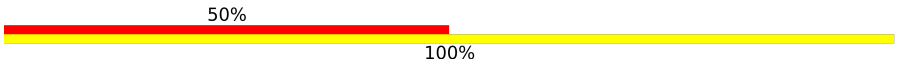
Chain 1:



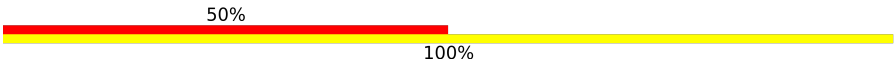
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 6: 

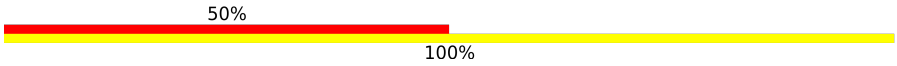
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 8: 

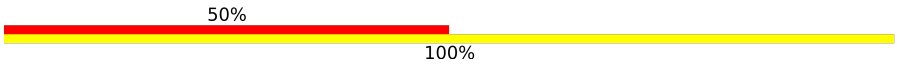
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain DA: 

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

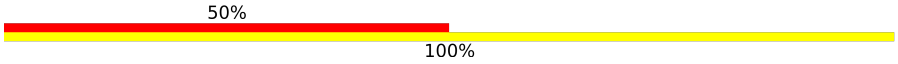
Chain FA: 

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain KA: 

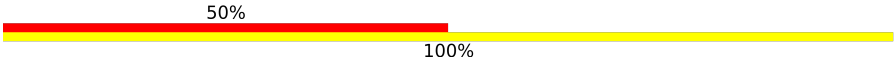
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain MA:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain RA:

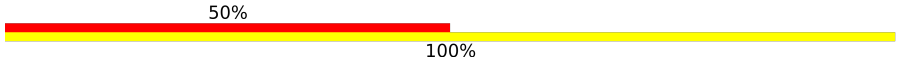


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain TA:

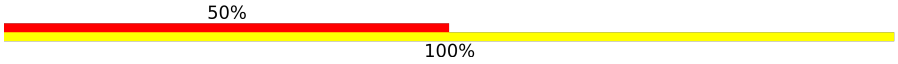
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain YA:



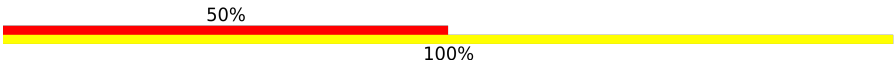
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain aA:



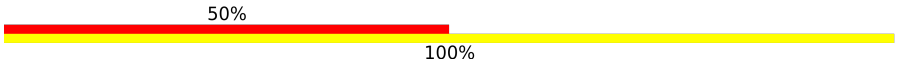
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain fA:



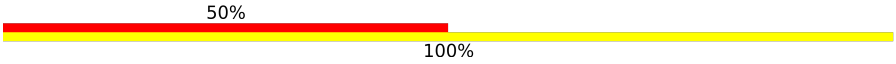
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain hA:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain mA:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

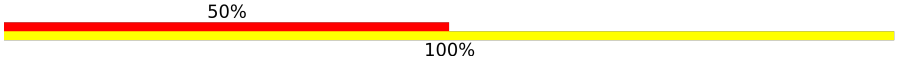
Chain oA:

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain tA:

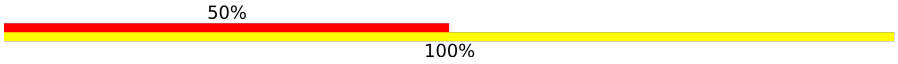
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain vA:



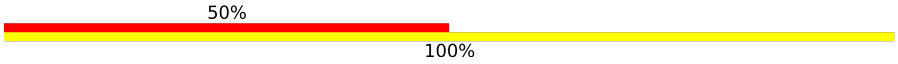
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 0A:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 2A:

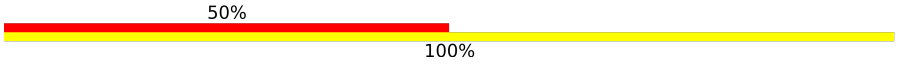


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 7A:

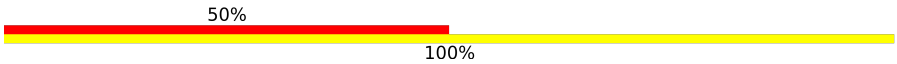
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 9A:



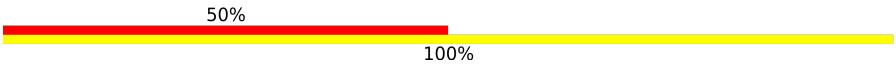
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain EB:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain GB:

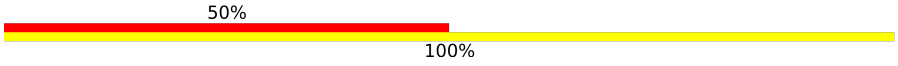


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain LB:

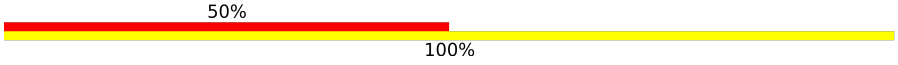
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain NB:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain SB:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

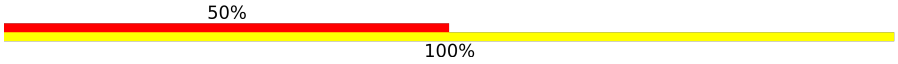
Chain UB:

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain ZB:

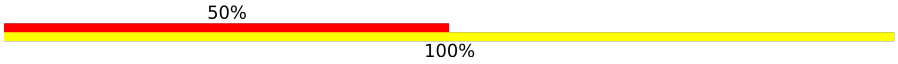
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain bB:



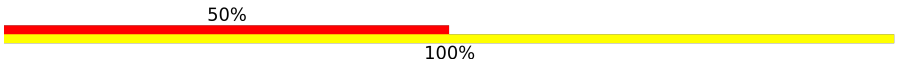
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain gB:



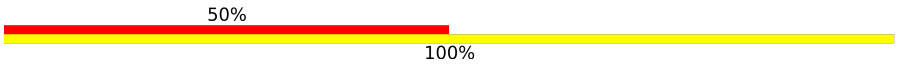
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain iB:



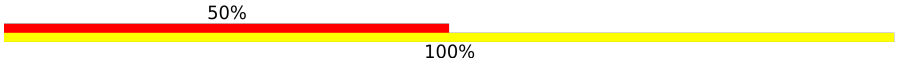
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain nB:



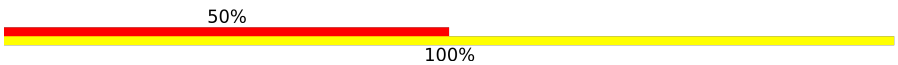
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain pB:

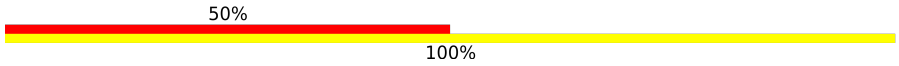


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

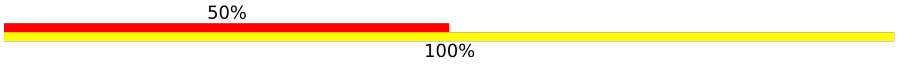
Chain uB:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain wB: 

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 1B: 

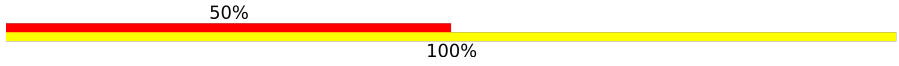
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 3B: 

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

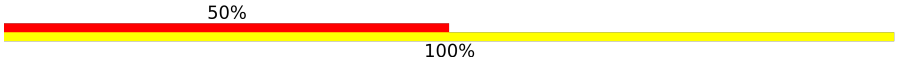
Chain 8B: 

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain AC: 

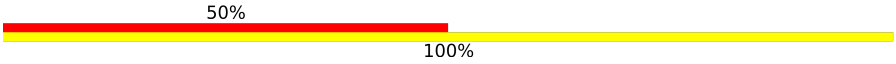
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain FC:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain HC:

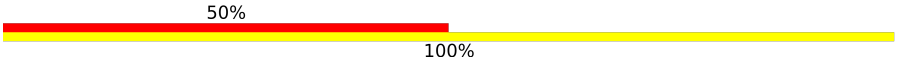


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain MC:

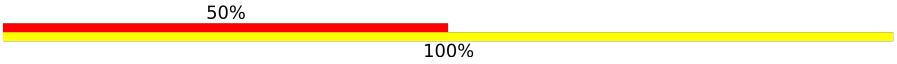
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain OC:



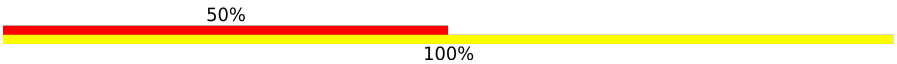
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain TC:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain VC:

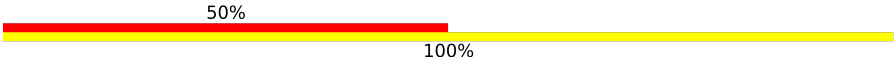


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain aC:

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain cC:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

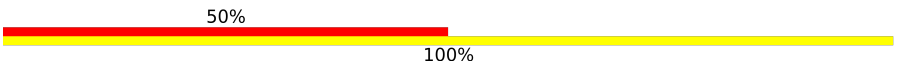
Chain hC:

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain jC:

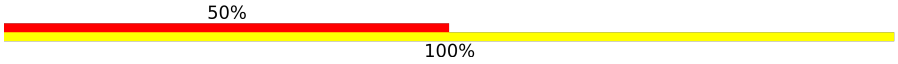
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain oC:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain qC:

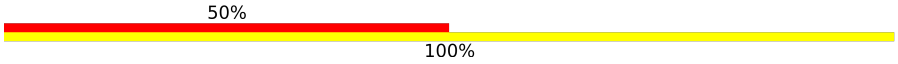


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain vC:

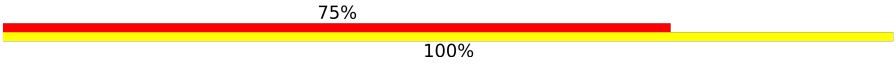
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain xC:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 2C:

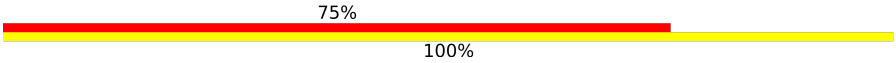


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 4C:

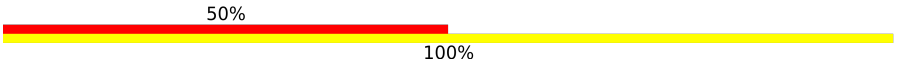
• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain 9C:



• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain BD:

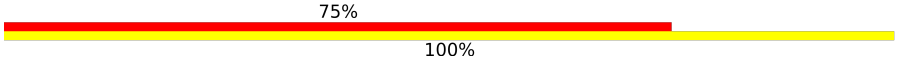


• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain GD:

• Molecule 4: alpha-D-mannopyranose-(1-3)-6-deoxy-6-sulfo-beta-D-galacto-heptopyranose-(1-4)-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose

Chain ID:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=107.922°, rise=5.641 Å, axial sym=C1	Depositor
Number of segments used	1374113	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	51.45	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.164	Depositor
Minimum map value	-0.044	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	315.0, 315.0, 315.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MAN, A1H1F, BGC, A1H03, GAL

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	0.28	0/1701	0.57	0/2325
1	B	0.28	0/1701	0.57	0/2325
1	C	0.28	0/1701	0.57	0/2325
1	D	0.28	0/1701	0.57	0/2325
1	E	0.28	0/1701	0.57	0/2325
1	F	0.28	0/1701	0.57	0/2325
1	G	0.28	0/1701	0.57	0/2325
1	H	0.28	0/1701	0.57	0/2325
1	I	0.28	0/1701	0.57	0/2325
1	J	0.28	0/1701	0.57	0/2325
1	K	0.28	0/1701	0.57	0/2325
1	L	0.28	0/1701	0.57	0/2325
1	M	0.28	0/1701	0.57	0/2325
1	N	0.28	0/1701	0.57	0/2325
1	O	0.28	0/1701	0.57	0/2325
1	P	0.28	0/1701	0.57	0/2325
1	Q	0.28	0/1701	0.57	0/2325
1	R	0.28	0/1701	0.57	0/2325
1	S	0.28	0/1701	0.57	0/2325
1	T	0.28	0/1701	0.57	0/2325
1	U	0.28	0/1701	0.57	0/2325
1	V	0.28	0/1701	0.57	0/2325
1	W	0.28	0/1701	0.57	0/2325
1	X	0.28	0/1701	0.57	0/2325
1	Y	0.28	0/1701	0.57	0/2325
1	Z	0.28	0/1701	0.57	0/2325
1	a	0.28	0/1701	0.57	0/2325
1	b	0.28	0/1701	0.57	0/2325
1	c	0.28	0/1701	0.57	0/2325
1	d	0.28	0/1701	0.57	0/2325
1	e	0.28	0/1701	0.57	0/2325
1	f	0.28	0/1701	0.57	0/2325

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	g	0.28	0/1701	0.57	0/2325
All	All	0.28	0/56133	0.57	0/76725

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)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	A	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	B	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	C	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	D	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	E	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	F	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	G	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	H	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	I	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	J	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	K	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	L	228/230 (99%)	220 (96%)	8 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	M	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	N	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	O	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	P	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	Q	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	R	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	S	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	T	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	U	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	V	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	W	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	X	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	Y	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	Z	228/230 (99%)	223 (98%)	5 (2%)	0	100	100
1	a	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	b	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	c	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	d	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	e	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	f	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
1	g	228/230 (99%)	220 (96%)	8 (4%)	0	100	100
All	All	7524/7590 (99%)	7263 (96%)	261 (4%)	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	A	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	B	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	C	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	D	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	E	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	F	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	G	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	H	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	I	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	J	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	K	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	L	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	M	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	N	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	O	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	P	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	Q	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	R	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	S	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	T	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	U	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	V	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	W	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	X	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	Y	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	Z	193/193 (100%)	193 (100%)	0	100	100
1	a	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	b	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	c	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	d	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	e	193/193 (100%)	191 (99%)	2 (1%)	73	84
1	f	193/193 (100%)	191 (99%)	2 (1%)	73	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	g	193/193 (100%)	191 (99%)	2 (1%)	73 84
All	All	6369/6369 (100%)	6305 (99%)	64 (1%)	71 84

All (64) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	V	163	THR
1	V	171	LEU
1	A	163	THR
1	A	171	LEU
1	B	163	THR
1	B	171	LEU
1	C	163	THR
1	C	171	LEU
1	D	163	THR
1	D	171	LEU
1	E	163	THR
1	E	171	LEU
1	F	163	THR
1	F	171	LEU
1	G	163	THR
1	G	171	LEU
1	H	163	THR
1	H	171	LEU
1	I	163	THR
1	I	171	LEU
1	J	163	THR
1	J	171	LEU
1	K	163	THR
1	K	171	LEU
1	L	163	THR
1	L	171	LEU
1	M	163	THR
1	M	171	LEU
1	N	163	THR
1	N	171	LEU
1	O	163	THR
1	O	171	LEU
1	P	163	THR
1	P	171	LEU
1	Q	163	THR
1	Q	171	LEU

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Mol	Chain	Res	Type
1	R	163	THR
1	R	171	LEU
1	S	163	THR
1	S	171	LEU
1	T	163	THR
1	T	171	LEU
1	U	163	THR
1	U	171	LEU
1	W	163	THR
1	W	171	LEU
1	X	163	THR
1	X	171	LEU
1	Y	163	THR
1	Y	171	LEU
1	a	163	THR
1	a	171	LEU
1	b	163	THR
1	b	171	LEU
1	c	163	THR
1	c	171	LEU
1	d	163	THR
1	d	171	LEU
1	e	163	THR
1	e	171	LEU
1	f	163	THR
1	f	171	LEU
1	g	163	THR
1	g	171	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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)

928 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	$\#\|Z\| > 2$
3	GAL	0	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	0	2	3	11,11,12	0.61	0	15,15,17	1.42	3 (20%)
3	A1H1F	0	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	0	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	0	5	3	11,11,12	0.65	0	15,15,17	1.18	2 (13%)
4	GAL	0A	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	0A	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)
4	A1H1F	0A	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	0A	4	4	11,11,12	0.65	0	15,15,17	1.50	3 (20%)
3	GAL	0B	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	0B	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	0B	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	0B	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	0B	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	0C	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	0C	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	0C	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	0C	4	3	13,13,14	0.71	0	17,18,20	0.96	2 (11%)
3	MAN	0C	5	3	11,11,12	0.66	0	15,15,17	1.51	2 (13%)
4	GAL	1	1	4,1	11,11,12	0.68	0	15,15,17	1.46	2 (13%)
4	BGC	1	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	1	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	1	4	4	11,11,12	0.58	0	15,15,17	1.19	1 (6%)
3	GAL	1A	1	3,1	11,11,12	0.66	0	15,15,17	1.17	2 (13%)
3	BGC	1A	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	1A	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.40	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	A1H03	1A	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	1A	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
4	GAL	1B	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	1B	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)
4	A1H1F	1B	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	1B	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	1C	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	1C	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	1C	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	1C	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	1C	5	3	11,11,12	0.62	0	15,15,17	1.17	1 (6%)
2	GAL	2	1	2,1	11,11,12	0.68	0	15,15,17	1.15	2 (13%)
2	BGC	2	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	2	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	2	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	2	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	2	6	2	13,13,14	0.81	0	17,18,20	1.10	3 (17%)
4	GAL	2A	1	4,1	11,11,12	0.68	0	15,15,17	1.46	2 (13%)
4	BGC	2A	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)
4	A1H1F	2A	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	2A	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	2B	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	2B	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	2B	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	2B	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	2B	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	2C	1	4,1	11,11,12	0.70	0	15,15,17	1.32	3 (20%)
4	BGC	2C	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	2C	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	2C	4	4	11,11,12	0.65	0	15,15,17	1.49	2 (13%)
2	GAL	3A	1	2,1	11,11,12	0.68	0	15,15,17	1.15	2 (13%)
2	BGC	3A	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	3A	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	3A	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	3A	5	2	11,11,12	0.65	0	15,15,17	1.91	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	A1H03	3A	6	2	13,13,14	0.81	0	17,18,20	1.10	3 (17%)
4	GAL	3B	1	4,1	11,11,12	0.66	0	15,15,17	1.46	2 (13%)
4	BGC	3B	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)
4	A1H1F	3B	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	3B	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	3C	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	3C	2	3	11,11,12	0.61	0	15,15,17	1.44	3 (20%)
3	A1H1F	3C	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	3C	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	3C	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
3	GAL	4	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	4	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	4	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	4	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	4	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
2	GAL	4B	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	4B	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	4B	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	4B	4	2	11,11,12	0.62	0	15,15,17	1.39	1 (6%)
2	MAN	4B	5	2	11,11,12	0.66	0	15,15,17	1.90	3 (20%)
2	A1H03	4B	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	4C	1	4,1	11,11,12	0.68	0	15,15,17	1.46	2 (13%)
4	BGC	4C	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	4C	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	4C	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	5	1	3,1	11,11,12	0.60	0	15,15,17	0.99	1 (6%)
3	BGC	5	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	5	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	5	4	3	13,13,14	0.72	0	17,18,20	1.03	2 (11%)
3	MAN	5	5	3	11,11,12	0.61	0	15,15,17	1.19	1 (6%)
3	GAL	5A	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	5A	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	5A	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	5A	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	5A	5	3	11,11,12	0.66	0	15,15,17	1.52	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	GAL	5C	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	5C	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	5C	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	5C	4	2	11,11,12	0.62	0	15,15,17	1.41	1 (6%)
2	MAN	5C	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	5C	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	6	1	4,1	11,11,12	0.68	0	15,15,17	1.33	3 (20%)
4	BGC	6	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	6	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	6	4	4	11,11,12	0.64	0	15,15,17	1.49	3 (20%)
3	GAL	6A	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	6A	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	6A	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	6A	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	6A	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
3	GAL	6B	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	6B	2	3	11,11,12	0.60	0	15,15,17	1.27	2 (13%)
3	A1H1F	6B	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	6B	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	6B	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
3	GAL	7	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	7	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	7	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	7	4	3	13,13,14	0.73	0	17,18,20	0.91	2 (11%)
3	MAN	7	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	7A	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	7A	2	4	11,11,12	0.66	0	15,15,17	1.08	2 (13%)
4	A1H1F	7A	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	7A	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	7B	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	7B	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	7B	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	7B	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	7B	5	3	11,11,12	0.61	0	15,15,17	1.17	1 (6%)
3	GAL	7C	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	BGC	7C	2	3	11,11,12	0.61	0	15,15,17	1.26	2 (13%)
3	A1H1F	7C	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	7C	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	7C	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
4	GAL	8	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	8	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)
4	A1H1F	8	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	8	4	4	11,11,12	0.59	0	15,15,17	1.18	1 (6%)
3	GAL	8A	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	8A	2	3	11,11,12	0.59	0	15,15,17	1.44	3 (20%)
3	A1H1F	8A	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	8A	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	8A	5	3	11,11,12	0.66	0	15,15,17	1.19	2 (13%)
4	GAL	8B	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	8B	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	8B	3	4	13,14,15	1.15	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	8B	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	8C	1	3,1	11,11,12	0.60	0	15,15,17	0.99	1 (6%)
3	BGC	8C	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	8C	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	8C	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	8C	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
2	GAL	9	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	9	2	2	11,11,12	0.66	0	15,15,17	1.20	3 (20%)
2	A1H1F	9	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	9	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	9	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	9	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	9A	1	4,1	11,11,12	0.66	0	15,15,17	1.46	2 (13%)
4	BGC	9A	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	9A	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	9A	4	4	11,11,12	0.60	0	15,15,17	1.19	1 (6%)
3	GAL	9B	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	9B	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	9B	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	A1H03	9B	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	9B	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	9C	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	9C	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	9C	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	9C	4	4	11,11,12	0.64	0	15,15,17	1.50	2 (13%)
2	GAL	AB	1	2,1	11,11,12	0.67	0	15,15,17	1.14	2 (13%)
2	BGC	AB	2	2	11,11,12	0.65	0	15,15,17	1.21	3 (20%)
2	A1H1F	AB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	AB	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	AB	5	2	11,11,12	0.64	0	15,15,17	1.90	3 (20%)
2	A1H03	AB	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	AC	1	4,1	11,11,12	0.67	0	15,15,17	1.47	2 (13%)
4	BGC	AC	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	AC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	AC	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	AD	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	AD	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	AD	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	AD	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	AD	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
3	GAL	BA	1	3,1	11,11,12	0.68	0	15,15,17	1.27	3 (20%)
3	BGC	BA	2	3	11,11,12	0.61	0	15,15,17	1.26	2 (13%)
3	A1H1F	BA	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	BA	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	BA	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
2	GAL	BC	1	2,1	11,11,12	0.68	0	15,15,17	1.15	2 (13%)
2	BGC	BC	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	BC	3	2	13,14,15	1.10	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	BC	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	BC	5	2	11,11,12	0.64	0	15,15,17	1.90	3 (20%)
2	A1H03	BC	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	BD	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	BD	2	4	11,11,12	0.59	0	15,15,17	1.05	2 (13%)
4	A1H1F	BD	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	MAN	BD	4	4	11,11,12	0.60	0	15,15,17	1.18	1 (6%)
3	GAL	CA	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	CA	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	CA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	CA	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	CA	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	CB	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	CB	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	CB	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	CB	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	CB	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
2	GAL	CD	1	2,1	11,11,12	0.67	0	15,15,17	1.15	2 (13%)
2	BGC	CD	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	CD	3	2	13,14,15	1.12	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	CD	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	CD	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	CD	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	DA	1	4,1	11,11,12	0.68	0	15,15,17	1.33	3 (20%)
4	BGC	DA	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	DA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	DA	4	4	11,11,12	0.64	0	15,15,17	1.50	2 (13%)
3	GAL	DB	1	3,1	11,11,12	0.61	0	15,15,17	0.97	1 (6%)
3	BGC	DB	2	3	11,11,12	0.64	0	15,15,17	1.48	3 (20%)
3	A1H1F	DB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	DB	4	3	13,13,14	0.69	0	17,18,20	1.03	2 (11%)
3	MAN	DB	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
3	GAL	DC	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	DC	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	DC	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.89	6 (33%)
3	A1H03	DC	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	DC	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
3	GAL	EA	1	3,1	11,11,12	0.66	0	15,15,17	1.17	2 (13%)
3	BGC	EA	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	EA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	EA	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	MAN	EA	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	EB	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	EB	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	EB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	EB	4	4	11,11,12	0.63	0	15,15,17	1.50	2 (13%)
3	GAL	EC	1	3,1	11,11,12	0.62	0	15,15,17	0.97	1 (6%)
3	BGC	EC	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	EC	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	EC	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	EC	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	ED	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	ED	2	3	11,11,12	0.60	0	15,15,17	1.27	2 (13%)
3	A1H1F	ED	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	ED	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	ED	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
4	GAL	FA	1	4,1	11,11,12	0.66	0	15,15,17	1.47	2 (13%)
4	BGC	FA	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)
4	A1H1F	FA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	FA	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	FB	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	FB	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	FB	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	FB	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	FB	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	FC	1	4,1	11,11,12	0.68	0	15,15,17	1.32	3 (20%)
4	BGC	FC	2	4	11,11,12	0.65	0	15,15,17	1.06	2 (13%)
4	A1H1F	FC	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	FC	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	FD	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	FD	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	FD	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	FD	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	FD	5	3	11,11,12	0.61	0	15,15,17	1.19	1 (6%)
2	GAL	GA	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	GA	2	2	11,11,12	0.66	0	15,15,17	1.20	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	A1H1F	GA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	GA	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	GA	5	2	11,11,12	0.65	0	15,15,17	1.91	3 (20%)
2	A1H03	GA	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	GB	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	GB	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	GB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	GB	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	GC	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	GC	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	GC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	GC	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	GC	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	GD	1	4,1	11,11,12	0.68	0	15,15,17	1.32	3 (20%)
4	BGC	GD	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	GD	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	GD	4	4	11,11,12	0.64	0	15,15,17	1.50	2 (13%)
2	GAL	HB	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	HB	2	2	11,11,12	0.65	0	15,15,17	1.21	3 (20%)
2	A1H1F	HB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	HB	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	HB	5	2	11,11,12	0.65	0	15,15,17	1.91	3 (20%)
2	A1H03	HB	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	HC	1	4,1	11,11,12	0.67	0	15,15,17	1.47	2 (13%)
4	BGC	HC	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	HC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	HC	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	HD	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	HD	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	HD	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	HD	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	HD	5	3	11,11,12	0.65	0	15,15,17	1.20	2 (13%)
3	GAL	IA	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	IA	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	IA	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.87	6 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	A1H03	IA	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	IA	5	3	11,11,12	0.66	0	15,15,17	1.51	2 (13%)
2	GAL	IC	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	IC	2	2	11,11,12	0.65	0	15,15,17	1.21	3 (20%)
2	A1H1F	IC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	IC	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	IC	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	IC	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	ID	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	ID	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	ID	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	ID	4	4	11,11,12	0.60	0	15,15,17	1.19	1 (6%)
3	GAL	JA	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	JA	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	JA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	JA	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	JA	5	3	11,11,12	0.62	0	15,15,17	1.17	1 (6%)
3	GAL	JB	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	JB	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	JB	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	JB	4	3	13,13,14	0.74	0	17,18,20	0.95	2 (11%)
3	MAN	JB	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
4	GAL	KA	1	4,1	11,11,12	0.69	0	15,15,17	1.31	3 (20%)
4	BGC	KA	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	KA	3	4	13,14,15	1.15	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	KA	4	4	11,11,12	0.65	0	15,15,17	1.49	3 (20%)
3	GAL	KB	1	3,1	11,11,12	0.60	0	15,15,17	0.98	1 (6%)
3	BGC	KB	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	KB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	KB	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	KB	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	KC	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	KC	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	KC	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	KC	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	MAN	KC	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
3	GAL	LA	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	LA	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	LA	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	LA	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	LA	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	LB	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	LB	2	4	11,11,12	0.67	0	15,15,17	1.07	2 (13%)
4	A1H1F	LB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	LB	4	4	11,11,12	0.64	0	15,15,17	1.51	2 (13%)
3	GAL	LC	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	LC	2	3	11,11,12	0.62	0	15,15,17	1.48	3 (20%)
3	A1H1F	LC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	LC	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	LC	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
4	GAL	MA	1	4,1	11,11,12	0.66	0	15,15,17	1.46	2 (13%)
4	BGC	MA	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	MA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	MA	4	4	11,11,12	0.58	0	15,15,17	1.19	1 (6%)
3	GAL	MB	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	MB	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	MB	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	MB	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	MB	5	3	11,11,12	0.64	0	15,15,17	1.20	2 (13%)
4	GAL	MC	1	4,1	11,11,12	0.69	0	15,15,17	1.31	3 (20%)
4	BGC	MC	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	MC	3	4	13,14,15	1.15	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	MC	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
2	GAL	NA	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	NA	2	2	11,11,12	0.66	0	15,15,17	1.20	3 (20%)
2	A1H1F	NA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	NA	4	2	11,11,12	0.62	0	15,15,17	1.41	1 (6%)
2	MAN	NA	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	NA	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	NB	1	4,1	11,11,12	0.68	0	15,15,17	1.46	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	BGC	NB	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	NB	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	NB	4	4	11,11,12	0.59	0	15,15,17	1.18	1 (6%)
3	GAL	NC	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	NC	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	NC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	NC	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	NC	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
2	GAL	OB	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	OB	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	OB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	OB	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	OB	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	OB	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	OC	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	OC	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	OC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	OC	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	PA	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	PA	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	PA	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	PA	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	PA	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
2	GAL	PC	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	PC	2	2	11,11,12	0.67	0	15,15,17	1.20	3 (20%)
2	A1H1F	PC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	PC	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	PC	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	PC	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
3	GAL	QA	1	3,1	11,11,12	0.61	0	15,15,17	0.99	1 (6%)
3	BGC	QA	2	3	11,11,12	0.63	0	15,15,17	1.48	3 (20%)
3	A1H1F	QA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	QA	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	QA	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	QB	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	BGC	QB	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	QB	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	QB	4	3	13,13,14	0.73	0	17,18,20	0.95	2 (11%)
3	MAN	QB	5	3	11,11,12	0.64	0	15,15,17	1.52	2 (13%)
4	GAL	RA	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	RA	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	RA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	RA	4	4	11,11,12	0.65	0	15,15,17	1.50	3 (20%)
3	GAL	RB	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	RB	2	3	11,11,12	0.63	0	15,15,17	1.48	3 (20%)
3	A1H1F	RB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	RB	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	RB	5	3	11,11,12	0.62	0	15,15,17	1.17	1 (6%)
3	GAL	RC	1	3,1	11,11,12	0.66	0	15,15,17	1.28	3 (20%)
3	BGC	RC	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	RC	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.89	6 (33%)
3	A1H03	RC	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	RC	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
3	GAL	SA	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	SA	2	3	11,11,12	0.61	0	15,15,17	1.44	3 (20%)
3	A1H1F	SA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	SA	4	3	13,13,14	0.73	0	17,18,20	0.91	2 (11%)
3	MAN	SA	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	SB	1	4,1	11,11,12	0.68	0	15,15,17	1.33	3 (20%)
4	BGC	SB	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)
4	A1H1F	SB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	SB	4	4	11,11,12	0.64	0	15,15,17	1.50	2 (13%)
3	GAL	SC	1	3,1	11,11,12	0.62	0	15,15,17	0.97	1 (6%)
3	BGC	SC	2	3	11,11,12	0.62	0	15,15,17	1.48	3 (20%)
3	A1H1F	SC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	SC	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	SC	5	3	11,11,12	0.61	0	15,15,17	1.19	1 (6%)
4	GAL	TA	1	4,1	11,11,12	0.67	0	15,15,17	1.47	2 (13%)
4	BGC	TA	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)
4	A1H1F	TA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	MAN	TA	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	TB	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	TB	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	TB	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	TB	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	TB	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	TC	1	4,1	11,11,12	0.69	0	15,15,17	1.31	3 (20%)
4	BGC	TC	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	TC	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	TC	4	4	11,11,12	0.65	0	15,15,17	1.50	3 (20%)
2	GAL	UA	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	UA	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	UA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	UA	4	2	11,11,12	0.62	0	15,15,17	1.40	1 (6%)
2	MAN	UA	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	UA	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	UB	1	4,1	11,11,12	0.68	0	15,15,17	1.45	2 (13%)
4	BGC	UB	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	UB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	UB	4	4	11,11,12	0.60	0	15,15,17	1.18	1 (6%)
3	GAL	UC	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	UC	2	3	11,11,12	0.59	0	15,15,17	1.44	3 (20%)
3	A1H1F	UC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	UC	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	UC	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
2	GAL	VB	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	VB	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	VB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	VB	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	VB	5	2	11,11,12	0.64	0	15,15,17	1.90	3 (20%)
2	A1H03	VB	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	VC	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	VC	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	VC	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	VC	4	4	11,11,12	0.58	0	15,15,17	1.20	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GAL	WA	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	WA	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	WA	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	WA	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	WA	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
2	GAL	WC	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	WC	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	WC	3	2	13,14,15	1.10	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	WC	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	WC	5	2	11,11,12	0.65	0	15,15,17	1.91	3 (20%)
2	A1H03	WC	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
3	GAL	XA	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	XA	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	XA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	XA	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	XA	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
3	GAL	XB	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	XB	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	XB	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	XB	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	XB	5	3	11,11,12	0.64	0	15,15,17	1.52	2 (13%)
4	GAL	YA	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	YA	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	YA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	YA	4	4	11,11,12	0.65	0	15,15,17	1.49	3 (20%)
3	GAL	YB	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	YB	2	3	11,11,12	0.63	0	15,15,17	1.48	3 (20%)
3	A1H1F	YB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	YB	4	3	13,13,14	0.71	0	17,18,20	1.04	2 (11%)
3	MAN	YB	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	YC	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	YC	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	YC	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	YC	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	YC	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GAL	ZA	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	ZA	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	ZA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	ZA	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	ZA	5	3	11,11,12	0.64	0	15,15,17	1.20	2 (13%)
4	GAL	ZB	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	ZB	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	ZB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	ZB	4	4	11,11,12	0.65	0	15,15,17	1.50	2 (13%)
3	GAL	ZC	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	ZC	2	3	11,11,12	0.63	0	15,15,17	1.48	3 (20%)
3	A1H1F	ZC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	ZC	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	ZC	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
4	GAL	aA	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	aA	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	aA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	aA	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	aB	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	aB	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	aB	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	aB	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	aB	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
4	GAL	aC	1	4,1	11,11,12	0.70	0	15,15,17	1.32	3 (20%)
4	BGC	aC	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	aC	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	aC	4	4	11,11,12	0.65	0	15,15,17	1.50	3 (20%)
2	GAL	bA	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	bA	2	2	11,11,12	0.65	0	15,15,17	1.21	3 (20%)
2	A1H1F	bA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	bA	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	bA	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	bA	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	bB	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	bB	2	4	11,11,12	0.59	0	15,15,17	1.06	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
4	A1H1F	bB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	bB	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	bC	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	bC	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	bC	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	bC	4	3	13,13,14	0.72	0	17,18,20	0.92	2 (11%)
3	MAN	bC	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
2	GAL	cB	1	2,1	11,11,12	0.67	0	15,15,17	1.15	2 (13%)
2	BGC	cB	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	cB	3	2	13,14,15	1.12	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	cB	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	cB	5	2	11,11,12	0.66	0	15,15,17	1.90	3 (20%)
2	A1H03	cB	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	cC	1	4,1	11,11,12	0.66	0	15,15,17	1.46	2 (13%)
4	BGC	cC	2	4	11,11,12	0.59	0	15,15,17	1.05	2 (13%)
4	A1H1F	cC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	cC	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	dA	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	dA	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	dA	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	dA	4	3	13,13,14	0.71	0	17,18,20	0.95	2 (11%)
3	MAN	dA	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
2	GAL	dC	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	dC	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	dC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	dC	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	dC	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	dC	6	2	13,13,14	0.82	0	17,18,20	1.11	3 (17%)
3	GAL	eA	1	3,1	11,11,12	0.62	0	15,15,17	0.99	1 (6%)
3	BGC	eA	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	eA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	eA	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	eA	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	eB	1	3,1	11,11,12	0.68	0	15,15,17	1.27	3 (20%)
3	BGC	eB	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	A1H1F	eB	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	eB	4	3	13,13,14	0.73	0	17,18,20	0.95	2 (11%)
3	MAN	eB	5	3	11,11,12	0.66	0	15,15,17	1.51	2 (13%)
4	GAL	fA	1	4,1	11,11,12	0.70	0	15,15,17	1.31	3 (20%)
4	BGC	fA	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	fA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	fA	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	fB	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	fB	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	fB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	fB	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	fB	5	3	11,11,12	0.61	0	15,15,17	1.19	1 (6%)
3	GAL	fC	1	3,1	11,11,12	0.66	0	15,15,17	1.29	3 (20%)
3	BGC	fC	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	fC	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	fC	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	fC	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
3	GAL	gA	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	gA	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	gA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	gA	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	gA	5	3	11,11,12	0.64	0	15,15,17	1.20	2 (13%)
4	GAL	gB	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	gB	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	gB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	gB	4	4	11,11,12	0.65	0	15,15,17	1.50	2 (13%)
3	GAL	gC	1	3,1	11,11,12	0.60	0	15,15,17	0.99	1 (6%)
3	BGC	gC	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	gC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	gC	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	gC	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
2	GAL	h	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	h	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	h	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	h	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MAN	h	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	h	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	hA	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	hA	2	4	11,11,12	0.59	0	15,15,17	1.05	2 (13%)
4	A1H1F	hA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	hA	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	hB	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	hB	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	hB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	hB	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	hB	5	3	11,11,12	0.64	0	15,15,17	1.20	2 (13%)
4	GAL	hC	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	hC	2	4	11,11,12	0.65	0	15,15,17	1.06	2 (13%)
4	A1H1F	hC	3	4	13,14,15	1.15	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	hC	4	4	11,11,12	0.65	0	15,15,17	1.50	2 (13%)
2	GAL	iA	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	iA	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	iA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	iA	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	iA	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	iA	6	2	13,13,14	0.81	0	17,18,20	1.10	3 (17%)
4	GAL	iB	1	4,1	11,11,12	0.67	0	15,15,17	1.45	2 (13%)
4	BGC	iB	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	iB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	iB	4	4	11,11,12	0.57	0	15,15,17	1.19	1 (6%)
3	GAL	iC	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	iC	2	3	11,11,12	0.60	0	15,15,17	1.44	3 (20%)
3	A1H1F	iC	3	3	13,14,15	1.13	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	iC	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	iC	5	3	11,11,12	0.66	0	15,15,17	1.19	2 (13%)
3	GAL	j	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	j	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	j	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	j	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	j	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	GAL	jB	1	2,1	11,11,12	0.68	0	15,15,17	1.13	2 (13%)
2	BGC	jB	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	jB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	jB	4	2	11,11,12	0.62	0	15,15,17	1.40	1 (6%)
2	MAN	jB	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	jB	6	2	13,13,14	0.81	0	17,18,20	1.10	3 (17%)
4	GAL	jC	1	4,1	11,11,12	0.67	0	15,15,17	1.47	2 (13%)
4	BGC	jC	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	jC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	jC	4	4	11,11,12	0.58	0	15,15,17	1.19	1 (6%)
3	GAL	k	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	k	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	k	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	k	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	k	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	kA	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	kA	2	3	11,11,12	0.61	0	15,15,17	1.26	2 (13%)
3	A1H1F	kA	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	kA	4	3	13,13,14	0.71	0	17,18,20	0.96	2 (11%)
3	MAN	kA	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
2	GAL	kC	1	2,1	11,11,12	0.67	0	15,15,17	1.15	2 (13%)
2	BGC	kC	2	2	11,11,12	0.66	0	15,15,17	1.22	3 (20%)
2	A1H1F	kC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	kC	4	2	11,11,12	0.62	0	15,15,17	1.40	1 (6%)
2	MAN	kC	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	kC	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	l	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	l	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	l	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	l	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	lA	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	lA	2	3	11,11,12	0.64	0	15,15,17	1.49	3 (20%)
3	A1H1F	lA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	lA	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	lA	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GAL	lB	1	3,1	11,11,12	0.68	0	15,15,17	1.27	3 (20%)
3	BGC	lB	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	lB	3	3	13,14,15	1.21	2 (15%)	18,21,23	1.88	6 (33%)
3	A1H03	lB	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	lB	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
3	GAL	m	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	m	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	m	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	m	4	3	13,13,14	0.72	0	17,18,20	0.91	2 (11%)
3	MAN	m	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	mA	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	mA	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	mA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	mA	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	mB	1	3,1	11,11,12	0.61	0	15,15,17	0.99	1 (6%)
3	BGC	mB	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	mB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	mB	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	mB	5	3	11,11,12	0.62	0	15,15,17	1.19	1 (6%)
3	GAL	mC	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	mC	2	3	11,11,12	0.62	0	15,15,17	1.26	2 (13%)
3	A1H1F	mC	3	3	13,14,15	1.21	2 (15%)	18,21,23	1.88	6 (33%)
3	A1H03	mC	4	3	13,13,14	0.71	0	17,18,20	0.96	2 (11%)
3	MAN	mC	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
4	GAL	n	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	n	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	n	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	n	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	nA	1	3,1	11,11,12	0.67	0	15,15,17	1.17	2 (13%)
3	BGC	nA	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	nA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	nA	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	nA	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
4	GAL	nB	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	nB	2	4	11,11,12	0.65	0	15,15,17	1.08	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	A1H1F	nB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	nB	4	4	11,11,12	0.64	0	15,15,17	1.50	3 (20%)
3	GAL	nC	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	nC	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	nC	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	nC	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	nC	5	3	11,11,12	0.61	0	15,15,17	1.17	1 (6%)
2	GAL	o	1	2,1	11,11,12	0.67	0	15,15,17	1.14	2 (13%)
2	BGC	o	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	o	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	o	4	2	11,11,12	0.64	0	15,15,17	1.40	1 (6%)
2	MAN	o	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	o	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	oA	1	4,1	11,11,12	0.66	0	15,15,17	1.47	2 (13%)
4	BGC	oA	2	4	11,11,12	0.57	0	15,15,17	1.05	2 (13%)
4	A1H1F	oA	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	oA	4	4	11,11,12	0.59	0	15,15,17	1.20	1 (6%)
3	GAL	oB	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	oB	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	oB	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	oB	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	oB	5	3	11,11,12	0.66	0	15,15,17	1.19	2 (13%)
4	GAL	oC	1	4,1	11,11,12	0.70	0	15,15,17	1.32	3 (20%)
4	BGC	oC	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)
4	A1H1F	oC	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	oC	4	4	11,11,12	0.65	0	15,15,17	1.50	4 (26%)
2	GAL	pA	1	2,1	11,11,12	0.69	0	15,15,17	1.14	2 (13%)
2	BGC	pA	2	2	11,11,12	0.65	0	15,15,17	1.21	3 (20%)
2	A1H1F	pA	3	2	13,14,15	1.12	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	pA	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	pA	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	pA	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	pB	1	4,1	11,11,12	0.66	0	15,15,17	1.47	2 (13%)
4	BGC	pB	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	pB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	MAN	pB	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	pC	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	pC	2	3	11,11,12	0.61	0	15,15,17	1.44	3 (20%)
3	A1H1F	pC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	pC	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	pC	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
3	GAL	q	1	3,1	11,11,12	0.68	0	15,15,17	1.27	3 (20%)
3	BGC	q	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	q	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.87	6 (33%)
3	A1H03	q	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	q	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)
2	GAL	qB	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	qB	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	qB	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	qB	4	2	11,11,12	0.64	0	15,15,17	1.40	1 (6%)
2	MAN	qB	5	2	11,11,12	0.64	0	15,15,17	1.90	3 (20%)
2	A1H03	qB	6	2	13,13,14	0.81	0	17,18,20	1.10	3 (17%)
4	GAL	qC	1	4,1	11,11,12	0.67	0	15,15,17	1.46	2 (13%)
4	BGC	qC	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	qC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	qC	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	r	1	3,1	11,11,12	0.62	0	15,15,17	0.98	1 (6%)
3	BGC	r	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	r	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	r	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	r	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	rA	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	rA	2	3	11,11,12	0.61	0	15,15,17	1.27	2 (13%)
3	A1H1F	rA	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	rA	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	rA	5	3	11,11,12	0.66	0	15,15,17	1.52	2 (13%)
2	GAL	rC	1	2,1	11,11,12	0.67	0	15,15,17	1.14	2 (13%)
2	BGC	rC	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	rC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	rC	4	2	11,11,12	0.62	0	15,15,17	1.41	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MAN	rC	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	rC	6	2	13,13,14	0.81	0	17,18,20	1.11	3 (17%)
4	GAL	s	1	4,1	11,11,12	0.69	0	15,15,17	1.33	3 (20%)
4	BGC	s	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	s	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	s	4	4	11,11,12	0.65	0	15,15,17	1.49	3 (20%)
3	GAL	sA	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	sA	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	sA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	sA	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	sA	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	sB	1	3,1	11,11,12	0.67	0	15,15,17	1.28	3 (20%)
3	BGC	sB	2	3	11,11,12	0.60	0	15,15,17	1.26	2 (13%)
3	A1H1F	sB	3	3	13,14,15	1.21	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	sB	4	3	13,13,14	0.71	0	17,18,20	0.95	2 (11%)
3	MAN	sB	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
3	GAL	t	1	3,1	11,11,12	0.66	0	15,15,17	1.18	2 (13%)
3	BGC	t	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	t	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	t	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	t	5	3	11,11,12	0.66	0	15,15,17	1.19	2 (13%)
4	GAL	tA	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	tA	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)
4	A1H1F	tA	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	tA	4	4	11,11,12	0.65	0	15,15,17	1.50	3 (20%)
3	GAL	tB	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	tB	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	tB	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.64	3 (16%)
3	A1H03	tB	4	3	13,13,14	0.71	0	17,18,20	1.04	2 (11%)
3	MAN	tB	5	3	11,11,12	0.61	0	15,15,17	1.18	1 (6%)
3	GAL	tC	1	3,1	11,11,12	0.68	0	15,15,17	1.28	3 (20%)
3	BGC	tC	2	3	11,11,12	0.61	0	15,15,17	1.26	2 (13%)
3	A1H1F	tC	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	tC	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	tC	5	3	11,11,12	0.65	0	15,15,17	1.52	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	GAL	u	1	4,1	11,11,12	0.68	0	15,15,17	1.47	2 (13%)
4	BGC	u	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	u	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	u	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	uA	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	uA	2	3	11,11,12	0.61	0	15,15,17	1.43	3 (20%)
3	A1H1F	uA	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.39	3 (16%)
3	A1H03	uA	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	uA	5	3	11,11,12	0.66	0	15,15,17	1.18	2 (13%)
4	GAL	uB	1	4,1	11,11,12	0.70	0	15,15,17	1.31	3 (20%)
4	BGC	uB	2	4	11,11,12	0.65	0	15,15,17	1.07	2 (13%)
4	A1H1F	uB	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.33	5 (27%)
4	MAN	uB	4	4	11,11,12	0.64	0	15,15,17	1.50	4 (26%)
3	GAL	uC	1	3,1	11,11,12	0.62	0	15,15,17	0.99	1 (6%)
3	BGC	uC	2	3	11,11,12	0.63	0	15,15,17	1.49	3 (20%)
3	A1H1F	uC	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	uC	4	3	13,13,14	0.71	0	17,18,20	1.03	2 (11%)
3	MAN	uC	5	3	11,11,12	0.62	0	15,15,17	1.18	1 (6%)
2	GAL	v	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	v	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	v	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	v	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	v	5	2	11,11,12	0.64	0	15,15,17	1.91	3 (20%)
2	A1H03	v	6	2	13,13,14	0.82	0	17,18,20	1.10	3 (17%)
4	GAL	vA	1	4,1	11,11,12	0.66	0	15,15,17	1.47	2 (13%)
4	BGC	vA	2	4	11,11,12	0.58	0	15,15,17	1.05	2 (13%)
4	A1H1F	vA	3	4	13,14,15	1.06	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	vA	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	vB	1	3,1	11,11,12	0.67	0	15,15,17	1.18	2 (13%)
3	BGC	vB	2	3	11,11,12	0.60	0	15,15,17	1.43	3 (20%)
3	A1H1F	vB	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	vB	4	3	13,13,14	0.71	0	17,18,20	0.92	2 (11%)
3	MAN	vB	5	3	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
4	GAL	vC	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	vC	2	4	11,11,12	0.66	0	15,15,17	1.06	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	A1H1F	vC	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	vC	4	4	11,11,12	0.65	0	15,15,17	1.50	2 (13%)
2	GAL	wA	1	2,1	11,11,12	0.69	0	15,15,17	1.14	2 (13%)
2	BGC	wA	2	2	11,11,12	0.65	0	15,15,17	1.22	3 (20%)
2	A1H1F	wA	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	wA	4	2	11,11,12	0.63	0	15,15,17	1.40	1 (6%)
2	MAN	wA	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	wA	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	wB	1	4,1	11,11,12	0.68	0	15,15,17	1.46	2 (13%)
4	BGC	wB	2	4	11,11,12	0.58	0	15,15,17	1.06	2 (13%)
4	A1H1F	wB	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.43	3 (16%)
4	MAN	wB	4	4	11,11,12	0.59	0	15,15,17	1.18	1 (6%)
3	GAL	wC	1	3,1	11,11,12	0.68	0	15,15,17	1.17	2 (13%)
3	BGC	wC	2	3	11,11,12	0.61	0	15,15,17	1.44	3 (20%)
3	A1H1F	wC	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.40	3 (16%)
3	A1H03	wC	4	3	13,13,14	0.71	0	17,18,20	0.91	2 (11%)
3	MAN	wC	5	3	11,11,12	0.64	0	15,15,17	1.19	2 (13%)
3	GAL	x	1	3,1	11,11,12	0.67	0	15,15,17	1.29	3 (20%)
3	BGC	x	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	x	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	x	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	x	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)
2	GAL	xB	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	xB	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	xB	3	2	13,14,15	1.10	1 (7%)	18,21,23	1.44	3 (16%)
2	MAN	xB	4	2	11,11,12	0.62	0	15,15,17	1.41	1 (6%)
2	MAN	xB	5	2	11,11,12	0.65	0	15,15,17	1.91	3 (20%)
2	A1H03	xB	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	xC	1	4,1	11,11,12	0.68	0	15,15,17	1.47	2 (13%)
4	BGC	xC	2	4	11,11,12	0.59	0	15,15,17	1.05	2 (13%)
4	A1H1F	xC	3	4	13,14,15	1.07	1 (7%)	18,21,23	1.42	3 (16%)
4	MAN	xC	4	4	11,11,12	0.59	0	15,15,17	1.19	1 (6%)
3	GAL	y	1	3,1	11,11,12	0.61	0	15,15,17	0.98	1 (6%)
3	BGC	y	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	y	3	3	13,14,15	1.14	1 (7%)	18,21,23	1.65	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	A1H03	y	4	3	13,13,14	0.70	0	17,18,20	1.03	2 (11%)
3	MAN	y	5	3	11,11,12	0.62	0	15,15,17	1.17	1 (6%)
3	GAL	yA	1	3,1	11,11,12	0.68	0	15,15,17	1.28	3 (20%)
3	BGC	yA	2	3	11,11,12	0.62	0	15,15,17	1.27	2 (13%)
3	A1H1F	yA	3	3	13,14,15	1.21	2 (15%)	18,21,23	1.87	6 (33%)
3	A1H03	yA	4	3	13,13,14	0.72	0	17,18,20	0.95	2 (11%)
3	MAN	yA	5	3	11,11,12	0.66	0	15,15,17	1.52	2 (13%)
2	GAL	yC	1	2,1	11,11,12	0.68	0	15,15,17	1.14	2 (13%)
2	BGC	yC	2	2	11,11,12	0.66	0	15,15,17	1.21	3 (20%)
2	A1H1F	yC	3	2	13,14,15	1.11	1 (7%)	18,21,23	1.45	3 (16%)
2	MAN	yC	4	2	11,11,12	0.63	0	15,15,17	1.41	1 (6%)
2	MAN	yC	5	2	11,11,12	0.65	0	15,15,17	1.90	3 (20%)
2	A1H03	yC	6	2	13,13,14	0.80	0	17,18,20	1.11	3 (17%)
4	GAL	z	1	4,1	11,11,12	0.69	0	15,15,17	1.32	3 (20%)
4	BGC	z	2	4	11,11,12	0.66	0	15,15,17	1.07	2 (13%)
4	A1H1F	z	3	4	13,14,15	1.14	1 (7%)	18,21,23	2.34	5 (27%)
4	MAN	z	4	4	11,11,12	0.64	0	15,15,17	1.49	2 (13%)
3	GAL	zA	1	3,1	11,11,12	0.62	0	15,15,17	0.97	1 (6%)
3	BGC	zA	2	3	11,11,12	0.62	0	15,15,17	1.49	3 (20%)
3	A1H1F	zA	3	3	13,14,15	1.15	1 (7%)	18,21,23	1.65	3 (16%)
3	A1H03	zA	4	3	13,13,14	0.70	0	17,18,20	1.04	2 (11%)
3	MAN	zA	5	3	11,11,12	0.61	0	15,15,17	1.17	1 (6%)
3	GAL	zB	1	3,1	11,11,12	0.67	0	15,15,17	1.27	3 (20%)
3	BGC	zB	2	3	11,11,12	0.63	0	15,15,17	1.26	2 (13%)
3	A1H1F	zB	3	3	13,14,15	1.20	1 (7%)	18,21,23	1.88	6 (33%)
3	A1H03	zB	4	3	13,13,14	0.72	0	17,18,20	0.96	2 (11%)
3	MAN	zB	5	3	11,11,12	0.65	0	15,15,17	1.51	2 (13%)

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	GAL	0	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	0	2	3	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	A1H1F	0	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	0	4	3	-	0/6/23/26	0/1/1/1
3	MAN	0	5	3	-	1/2/19/22	0/1/1/1
4	GAL	0A	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	0A	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	0A	3	4	-	0/5/22/25	0/1/1/1
4	MAN	0A	4	4	-	2/2/19/22	0/1/1/1
3	GAL	0B	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	0B	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	0B	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	0B	4	3	-	0/6/23/26	0/1/1/1
3	MAN	0B	5	3	-	2/2/19/22	0/1/1/1
3	GAL	0C	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	0C	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	0C	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	0C	4	3	-	0/6/23/26	0/1/1/1
3	MAN	0C	5	3	-	1/2/19/22	0/1/1/1
4	GAL	1	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	1	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	1	3	4	-	1/5/22/25	0/1/1/1
4	MAN	1	4	4	-	2/2/19/22	0/1/1/1
3	GAL	1A	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	1A	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	1A	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	1A	4	3	-	0/6/23/26	0/1/1/1
3	MAN	1A	5	3	-	1/2/19/22	0/1/1/1
4	GAL	1B	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	1B	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	1B	3	4	-	0/5/22/25	0/1/1/1
4	MAN	1B	4	4	-	2/2/19/22	0/1/1/1
3	GAL	1C	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	1C	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	1C	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	1C	4	3	-	0/6/23/26	0/1/1/1
3	MAN	1C	5	3	-	2/2/19/22	0/1/1/1
2	GAL	2	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	2	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	2	3	2	-	2/5/22/25	0/1/1/1
2	MAN	2	4	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	2	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	2	6	2	-	0/6/23/26	0/1/1/1
4	GAL	2A	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	2A	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	2A	3	4	-	1/5/22/25	0/1/1/1
4	MAN	2A	4	4	-	2/2/19/22	0/1/1/1
3	GAL	2B	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	2B	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	2B	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	2B	4	3	-	0/6/23/26	0/1/1/1
3	MAN	2B	5	3	-	1/2/19/22	0/1/1/1
4	GAL	2C	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	2C	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	2C	3	4	-	0/5/22/25	0/1/1/1
4	MAN	2C	4	4	-	2/2/19/22	0/1/1/1
2	GAL	3A	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	3A	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	3A	3	2	-	2/5/22/25	0/1/1/1
2	MAN	3A	4	2	-	0/2/19/22	0/1/1/1
2	MAN	3A	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	3A	6	2	-	0/6/23/26	0/1/1/1
4	GAL	3B	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	3B	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	3B	3	4	-	1/5/22/25	0/1/1/1
4	MAN	3B	4	4	-	2/2/19/22	0/1/1/1
3	GAL	3C	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	3C	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	3C	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	3C	4	3	-	0/6/23/26	0/1/1/1
3	MAN	3C	5	3	-	1/2/19/22	0/1/1/1
3	GAL	4	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	4	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	4	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	4	4	3	-	0/6/23/26	0/1/1/1
3	MAN	4	5	3	-	1/2/19/22	0/1/1/1
2	GAL	4B	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	4B	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	4B	3	2	-	2/5/22/25	0/1/1/1
2	MAN	4B	4	2	-	0/2/19/22	0/1/1/1
2	MAN	4B	5	2	-	0/2/19/22	1/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	A1H03	4B	6	2	-	0/6/23/26	0/1/1/1
4	GAL	4C	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	4C	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	4C	3	4	-	1/5/22/25	0/1/1/1
4	MAN	4C	4	4	-	2/2/19/22	0/1/1/1
3	GAL	5	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	5	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	5	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	5	4	3	-	0/6/23/26	0/1/1/1
3	MAN	5	5	3	-	2/2/19/22	0/1/1/1
3	GAL	5A	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	5A	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	5A	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	5A	4	3	-	0/6/23/26	0/1/1/1
3	MAN	5A	5	3	-	1/2/19/22	0/1/1/1
2	GAL	5C	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	5C	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	5C	3	2	-	2/5/22/25	0/1/1/1
2	MAN	5C	4	2	-	0/2/19/22	0/1/1/1
2	MAN	5C	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	5C	6	2	-	0/6/23/26	0/1/1/1
4	GAL	6	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	6	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	6	3	4	-	0/5/22/25	0/1/1/1
4	MAN	6	4	4	-	2/2/19/22	0/1/1/1
3	GAL	6A	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	6A	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	6A	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	6A	4	3	-	0/6/23/26	0/1/1/1
3	MAN	6A	5	3	-	2/2/19/22	0/1/1/1
3	GAL	6B	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	6B	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	6B	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	6B	4	3	-	0/6/23/26	0/1/1/1
3	MAN	6B	5	3	-	1/2/19/22	0/1/1/1
3	GAL	7	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	7	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	7	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	7	4	3	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MAN	7	5	3	-	1/2/19/22	0/1/1/1
4	GAL	7A	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	7A	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	7A	3	4	-	0/5/22/25	0/1/1/1
4	MAN	7A	4	4	-	2/2/19/22	0/1/1/1
3	GAL	7B	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	7B	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	7B	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	7B	4	3	-	0/6/23/26	0/1/1/1
3	MAN	7B	5	3	-	2/2/19/22	0/1/1/1
3	GAL	7C	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	7C	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	7C	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	7C	4	3	-	0/6/23/26	0/1/1/1
3	MAN	7C	5	3	-	1/2/19/22	0/1/1/1
4	GAL	8	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	8	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	8	3	4	-	1/5/22/25	0/1/1/1
4	MAN	8	4	4	-	2/2/19/22	0/1/1/1
3	GAL	8A	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	8A	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	8A	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	8A	4	3	-	0/6/23/26	0/1/1/1
3	MAN	8A	5	3	-	1/2/19/22	0/1/1/1
4	GAL	8B	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	8B	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	8B	3	4	-	0/5/22/25	0/1/1/1
4	MAN	8B	4	4	-	2/2/19/22	0/1/1/1
3	GAL	8C	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	8C	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	8C	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	8C	4	3	-	0/6/23/26	0/1/1/1
3	MAN	8C	5	3	-	2/2/19/22	0/1/1/1
2	GAL	9	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	9	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	9	3	2	-	2/5/22/25	0/1/1/1
2	MAN	9	4	2	-	0/2/19/22	0/1/1/1
2	MAN	9	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	9	6	2	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GAL	9A	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	9A	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	9A	3	4	-	1/5/22/25	0/1/1/1
4	MAN	9A	4	4	-	2/2/19/22	0/1/1/1
3	GAL	9B	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	9B	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	9B	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	9B	4	3	-	0/6/23/26	0/1/1/1
3	MAN	9B	5	3	-	1/2/19/22	0/1/1/1
4	GAL	9C	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	9C	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	9C	3	4	-	0/5/22/25	0/1/1/1
4	MAN	9C	4	4	-	2/2/19/22	0/1/1/1
2	GAL	AB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	AB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	AB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	AB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	AB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	AB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	AC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	AC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	AC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	AC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	AD	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	AD	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	AD	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	AD	4	3	-	0/6/23/26	0/1/1/1
3	MAN	AD	5	3	-	1/2/19/22	0/1/1/1
3	GAL	BA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	BA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	BA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	BA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	BA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	BC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	BC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	BC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	BC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	BC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	BC	6	2	-	0/6/23/26	0/1/1/1
4	GAL	BD	1	4,1	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	BGC	BD	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	BD	3	4	-	1/5/22/25	0/1/1/1
4	MAN	BD	4	4	-	2/2/19/22	0/1/1/1
3	GAL	CA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	CA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	CA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	CA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	CA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	CB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	CB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	CB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	CB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	CB	5	3	-	1/2/19/22	0/1/1/1
2	GAL	CD	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	CD	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	CD	3	2	-	2/5/22/25	0/1/1/1
2	MAN	CD	4	2	-	0/2/19/22	0/1/1/1
2	MAN	CD	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	CD	6	2	-	0/6/23/26	0/1/1/1
4	GAL	DA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	DA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	DA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	DA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	DB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	DB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	DB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	DB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	DB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	DC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	DC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	DC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	DC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	DC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	EA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	EA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	EA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	EA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	EA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	EB	1	4,1	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	BGC	EB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	EB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	EB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	EC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	EC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	EC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	EC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	EC	5	3	-	2/2/19/22	0/1/1/1
3	GAL	ED	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	ED	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	ED	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	ED	4	3	-	0/6/23/26	0/1/1/1
3	MAN	ED	5	3	-	1/2/19/22	0/1/1/1
4	GAL	FA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	FA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	FA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	FA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	FB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	FB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	FB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	FB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	FB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	FC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	FC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	FC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	FC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	FD	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	FD	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	FD	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	FD	4	3	-	0/6/23/26	0/1/1/1
3	MAN	FD	5	3	-	2/2/19/22	0/1/1/1
2	GAL	GA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	GA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	GA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	GA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	GA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	GA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	GB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	GB	2	4	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	A1H1F	GB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	GB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	GC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	GC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	GC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	GC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	GC	5	3	-	1/2/19/22	0/1/1/1
4	GAL	GD	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	GD	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	GD	3	4	-	0/5/22/25	0/1/1/1
4	MAN	GD	4	4	-	2/2/19/22	0/1/1/1
2	GAL	HB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	HB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	HB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	HB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	HB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	HB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	HC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	HC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	HC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	HC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	HD	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	HD	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	HD	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	HD	4	3	-	0/6/23/26	0/1/1/1
3	MAN	HD	5	3	-	1/2/19/22	0/1/1/1
3	GAL	IA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	IA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	IA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	IA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	IA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	IC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	IC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	IC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	IC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	IC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	IC	6	2	-	0/6/23/26	0/1/1/1
4	GAL	ID	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	ID	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	ID	3	4	-	1/5/22/25	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	MAN	ID	4	4	-	2/2/19/22	0/1/1/1
3	GAL	JA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	JA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	JA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	JA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	JA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	JB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	JB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	JB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	JB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	JB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	KA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	KA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	KA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	KA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	KB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	KB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	KB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	KB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	KB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	KC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	KC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	KC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	KC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	KC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	LA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	LA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	LA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	LA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	LA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	LB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	LB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	LB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	LB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	LC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	LC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	LC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	LC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	LC	5	3	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GAL	MA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	MA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	MA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	MA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	MB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	MB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	MB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	MB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	MB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	MC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	MC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	MC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	MC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	NA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	NA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	NA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	NA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	NA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	NA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	NB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	NB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	NB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	NB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	NC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	NC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	NC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	NC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	NC	5	3	-	1/2/19/22	0/1/1/1
2	GAL	OB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	OB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	OB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	OB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	OB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	OB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	OC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	OC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	OC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	OC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	PA	1	3,1	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	PA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	PA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	PA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	PA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	PC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	PC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	PC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	PC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	PC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	PC	6	2	-	0/6/23/26	0/1/1/1
3	GAL	QA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	QA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	QA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	QA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	QA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	QB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	QB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	QB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	QB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	QB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	RA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	RA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	RA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	RA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	RB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	RB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	RB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	RB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	RB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	RC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	RC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	RC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	RC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	RC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	SA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	SA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	SA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	SA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	SA	5	3	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GAL	SB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	SB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	SB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	SB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	SC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	SC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	SC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	SC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	SC	5	3	-	2/2/19/22	0/1/1/1
4	GAL	TA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	TA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	TA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	TA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	TB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	TB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	TB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	TB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	TB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	TC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	TC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	TC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	TC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	UA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	UA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	UA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	UA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	UA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	UA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	UB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	UB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	UB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	UB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	UC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	UC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	UC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	UC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	UC	5	3	-	1/2/19/22	0/1/1/1
2	GAL	VB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	VB	2	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	A1H1F	VB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	VB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	VB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	VB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	VC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	VC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	VC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	VC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	WA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	WA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	WA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	WA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	WA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	WC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	WC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	WC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	WC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	WC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	WC	6	2	-	0/6/23/26	0/1/1/1
3	GAL	XA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	XA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	XA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	XA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	XA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	XB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	XB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	XB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	XB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	XB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	YA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	YA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	YA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	YA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	YB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	YB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	YB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	YB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	YB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	YC	1	3,1	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	YC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	YC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	YC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	YC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	ZA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	ZA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	ZA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	ZA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	ZA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	ZB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	ZB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	ZB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	ZB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	ZC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	ZC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	ZC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	ZC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	ZC	5	3	-	2/2/19/22	0/1/1/1
4	GAL	aA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	aA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	aA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	aA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	aB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	aB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	aB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	aB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	aB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	aC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	aC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	aC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	aC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	bA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	bA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	bA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	bA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	bA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	bA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	bB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	bB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	bB	3	4	-	1/5/22/25	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	MAN	bB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	bC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	bC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	bC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	bC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	bC	5	3	-	1/2/19/22	0/1/1/1
2	GAL	cB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	cB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	cB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	cB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	cB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	cB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	cC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	cC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	cC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	cC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	dA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	dA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	dA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	dA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	dA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	dC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	dC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	dC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	dC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	dC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	dC	6	2	-	0/6/23/26	0/1/1/1
3	GAL	eA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	eA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	eA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	eA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	eA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	eB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	eB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	eB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	eB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	eB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	fA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	fA	2	4	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	A1H1F	fA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	fA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	fB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	fB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	fB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	fB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	fB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	fC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	fC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	fC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	fC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	fC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	gA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	gA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	gA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	gA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	gA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	gB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	gB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	gB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	gB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	gC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	gC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	gC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	gC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	gC	5	3	-	2/2/19/22	0/1/1/1
2	GAL	h	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	h	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	h	3	2	-	2/5/22/25	0/1/1/1
2	MAN	h	4	2	-	0/2/19/22	0/1/1/1
2	MAN	h	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	h	6	2	-	0/6/23/26	0/1/1/1
4	GAL	hA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	hA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	hA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	hA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	hB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	hB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	hB	3	3	-	2/5/22/25	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	A1H03	hB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	hB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	hC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	hC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	hC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	hC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	iA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	iA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	iA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	iA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	iA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	iA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	iB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	iB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	iB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	iB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	iC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	iC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	iC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	iC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	iC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	j	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	j	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	j	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	j	4	3	-	0/6/23/26	0/1/1/1
3	MAN	j	5	3	-	1/2/19/22	0/1/1/1
2	GAL	jB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	jB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	jB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	jB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	jB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	jB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	jC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	jC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	jC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	jC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	k	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	k	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	k	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	k	4	3	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MAN	k	5	3	-	2/2/19/22	0/1/1/1
3	GAL	kA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	kA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	kA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	kA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	kA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	kC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	kC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	kC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	kC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	kC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	kC	6	2	-	0/6/23/26	0/1/1/1
4	GAL	l	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	l	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	l	3	4	-	0/5/22/25	0/1/1/1
4	MAN	l	4	4	-	2/2/19/22	0/1/1/1
3	GAL	lA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	lA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	lA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	lA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	lA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	lB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	lB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	lB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	lB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	lB	5	3	-	1/2/19/22	0/1/1/1
3	GAL	m	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	m	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	m	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	m	4	3	-	0/6/23/26	0/1/1/1
3	MAN	m	5	3	-	1/2/19/22	0/1/1/1
4	GAL	mA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	mA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	mA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	mA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	mB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	mB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	mB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	mB	4	3	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MAN	mB	5	3	-	2/2/19/22	0/1/1/1
3	GAL	mC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	mC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	mC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	mC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	mC	5	3	-	1/2/19/22	0/1/1/1
4	GAL	n	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	n	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	n	3	4	-	1/5/22/25	0/1/1/1
4	MAN	n	4	4	-	2/2/19/22	0/1/1/1
3	GAL	nA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	nA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	nA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	nA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	nA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	nB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	nB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	nB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	nB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	nC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	nC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	nC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	nC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	nC	5	3	-	2/2/19/22	0/1/1/1
2	GAL	o	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	o	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	o	3	2	-	2/5/22/25	0/1/1/1
2	MAN	o	4	2	-	0/2/19/22	0/1/1/1
2	MAN	o	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	o	6	2	-	0/6/23/26	0/1/1/1
4	GAL	oA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	oA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	oA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	oA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	oB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	oB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	oB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	oB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	oB	5	3	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GAL	oC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	oC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	oC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	oC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	pA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	pA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	pA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	pA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	pA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	pA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	pB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	pB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	pB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	pB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	pC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	pC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	pC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	pC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	pC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	q	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	q	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	q	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	q	4	3	-	0/6/23/26	0/1/1/1
3	MAN	q	5	3	-	1/2/19/22	0/1/1/1
2	GAL	qB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	qB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	qB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	qB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	qB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	qB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	qC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	qC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	qC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	qC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	r	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	r	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	r	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	r	4	3	-	0/6/23/26	0/1/1/1
3	MAN	r	5	3	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GAL	rA	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	rA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	rA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	rA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	rA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	rC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	rC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	rC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	rC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	rC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	rC	6	2	-	0/6/23/26	0/1/1/1
4	GAL	s	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	s	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	s	3	4	-	0/5/22/25	0/1/1/1
4	MAN	s	4	4	-	2/2/19/22	0/1/1/1
3	GAL	sA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	sA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	sA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	sA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	sA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	sB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	sB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	sB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	sB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	sB	5	3	-	1/2/19/22	0/1/1/1
3	GAL	t	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	t	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	t	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	t	4	3	-	0/6/23/26	0/1/1/1
3	MAN	t	5	3	-	1/2/19/22	0/1/1/1
4	GAL	tA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	tA	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	tA	3	4	-	0/5/22/25	0/1/1/1
4	MAN	tA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	tB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	tB	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	tB	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	tB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	tB	5	3	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GAL	tC	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	tC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	tC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	tC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	tC	5	3	-	1/2/19/22	0/1/1/1
4	GAL	u	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	u	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	u	3	4	-	1/5/22/25	0/1/1/1
4	MAN	u	4	4	-	2/2/19/22	0/1/1/1
3	GAL	uA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	uA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	uA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	uA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	uA	5	3	-	1/2/19/22	0/1/1/1
4	GAL	uB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	uB	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	uB	3	4	-	0/5/22/25	0/1/1/1
4	MAN	uB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	uC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	uC	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	uC	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	uC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	uC	5	3	-	2/2/19/22	0/1/1/1
2	GAL	v	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	v	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	v	3	2	-	2/5/22/25	0/1/1/1
2	MAN	v	4	2	-	0/2/19/22	0/1/1/1
2	MAN	v	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	v	6	2	-	0/6/23/26	0/1/1/1
4	GAL	vA	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	vA	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	vA	3	4	-	1/5/22/25	0/1/1/1
4	MAN	vA	4	4	-	2/2/19/22	0/1/1/1
3	GAL	vB	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	vB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	vB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	vB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	vB	5	3	-	1/2/19/22	0/1/1/1
4	GAL	vC	1	4,1	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	BGC	vC	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	vC	3	4	-	0/5/22/25	0/1/1/1
4	MAN	vC	4	4	-	2/2/19/22	0/1/1/1
2	GAL	wA	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	wA	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	wA	3	2	-	2/5/22/25	0/1/1/1
2	MAN	wA	4	2	-	0/2/19/22	0/1/1/1
2	MAN	wA	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	wA	6	2	-	0/6/23/26	0/1/1/1
4	GAL	wB	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	wB	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	wB	3	4	-	1/5/22/25	0/1/1/1
4	MAN	wB	4	4	-	2/2/19/22	0/1/1/1
3	GAL	wC	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	wC	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	wC	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	wC	4	3	-	0/6/23/26	0/1/1/1
3	MAN	wC	5	3	-	1/2/19/22	0/1/1/1
3	GAL	x	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	x	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	x	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	x	4	3	-	0/6/23/26	0/1/1/1
3	MAN	x	5	3	-	1/2/19/22	0/1/1/1
2	GAL	xB	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	xB	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	xB	3	2	-	2/5/22/25	0/1/1/1
2	MAN	xB	4	2	-	0/2/19/22	0/1/1/1
2	MAN	xB	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	xB	6	2	-	0/6/23/26	0/1/1/1
4	GAL	xC	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	xC	2	4	-	2/2/19/22	0/1/1/1
4	A1H1F	xC	3	4	-	1/5/22/25	0/1/1/1
4	MAN	xC	4	4	-	2/2/19/22	0/1/1/1
3	GAL	y	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	y	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	y	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	y	4	3	-	0/6/23/26	0/1/1/1
3	MAN	y	5	3	-	2/2/19/22	0/1/1/1
3	GAL	yA	1	3,1	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	yA	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	yA	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	yA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	yA	5	3	-	1/2/19/22	0/1/1/1
2	GAL	yC	1	2,1	-	1/2/19/22	0/1/1/1
2	BGC	yC	2	2	-	0/2/19/22	0/1/1/1
2	A1H1F	yC	3	2	-	2/5/22/25	0/1/1/1
2	MAN	yC	4	2	-	0/2/19/22	0/1/1/1
2	MAN	yC	5	2	-	0/2/19/22	1/1/1/1
2	A1H03	yC	6	2	-	0/6/23/26	0/1/1/1
4	GAL	z	1	4,1	-	1/2/19/22	0/1/1/1
4	BGC	z	2	4	-	0/2/19/22	0/1/1/1
4	A1H1F	z	3	4	-	0/5/22/25	0/1/1/1
4	MAN	z	4	4	-	2/2/19/22	0/1/1/1
3	GAL	zA	1	3,1	-	0/2/19/22	0/1/1/1
3	BGC	zA	2	3	-	2/2/19/22	0/1/1/1
3	A1H1F	zA	3	3	-	0/5/22/25	0/1/1/1
3	A1H03	zA	4	3	-	0/6/23/26	0/1/1/1
3	MAN	zA	5	3	-	2/2/19/22	0/1/1/1
3	GAL	zB	1	3,1	-	2/2/19/22	0/1/1/1
3	BGC	zB	2	3	-	0/2/19/22	0/1/1/1
3	A1H1F	zB	3	3	-	2/5/22/25	0/1/1/1
3	A1H03	zB	4	3	-	0/6/23/26	0/1/1/1
3	MAN	zB	5	3	-	1/2/19/22	0/1/1/1

All (195) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8B	3	A1H1F	C6-S6	-2.84	1.66	1.77
4	KA	3	A1H1F	C6-S6	-2.83	1.66	1.77
4	FC	3	A1H1F	C6-S6	-2.82	1.67	1.77
4	TC	3	A1H1F	C6-S6	-2.82	1.67	1.77
4	1B	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	l	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	aC	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	hC	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	SB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	nB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	6	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	DA	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	MC	3	A1H1F	C6-S6	-2.81	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	uB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	EB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	z	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	LB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	ZB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	gB	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	cC	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	vC	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	fA	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	tA	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	oC	3	A1H1F	C6-S6	-2.81	1.67	1.77
4	RA	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	s	3	A1H1F	C6-S6	-2.80	1.67	1.77
2	jB	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	YA	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	7A	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	mA	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	0A	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	2C	3	A1H1F	C6-S6	-2.80	1.67	1.77
4	9C	3	A1H1F	C6-S6	-2.80	1.67	1.77
3	JB	3	A1H1F	C6-S6	-2.80	1.67	1.77
2	cB	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	CB	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	1	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	DC	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	qB	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	0C	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	TA	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	pA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	aA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	MA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	GD	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	yC	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	hA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	9A	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	oA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	8	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	PC	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	QA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	2A	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	CD	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	dA	3	A1H1F	C6-S6	-2.79	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	zA	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	FA	3	A1H1F	C6-S6	-2.79	1.67	1.77
2	GA	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	1C	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	tB	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	GB	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	NB	3	A1H1F	C6-S6	-2.79	1.67	1.77
4	UB	3	A1H1F	C6-S6	-2.79	1.67	1.77
3	YB	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	HB	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	rA	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	RC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	pB	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	ID	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	bB	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	iB	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	3B	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	CA	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	uC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	AC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	wB	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	n	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	jC	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	XA	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	OC	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	UA	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	VC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	xC	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	kA	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	KC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	4C	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	qC	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	BD	3	A1H1F	C6-S6	-2.78	1.67	1.77
4	HC	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	yA	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	DB	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	RB	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	KB	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	QB	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	0B	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	4	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	sA	3	A1H1F	C6-S6	-2.78	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	rC	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	iA	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	mB	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	AB	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	3A	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	XB	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	h	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	6A	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	j	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	7B	3	A1H1F	C6-S6	-2.78	1.67	1.77
3	r	3	A1H1F	C6-S6	-2.78	1.67	1.77
2	bA	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	2	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	PA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	lA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	sB	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	wA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	k	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	6B	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	eA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	nC	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	9	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	BC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	IA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	7C	3	A1H1F	C6-S6	-2.77	1.67	1.77
4	u	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	o	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	4B	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	OB	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	BA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	ED	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	NA	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	FD	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	kC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	tC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	SC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	fB	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	dC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	JA	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	IC	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	8C	3	A1H1F	C6-S6	-2.77	1.67	1.77
2	v	3	A1H1F	C6-S6	-2.77	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	eB	3	A1H1F	C6-S6	-2.77	1.67	1.77
3	zB	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	mC	3	A1H1F	C6-S6	-2.76	1.67	1.77
2	xB	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	EC	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	lB	3	A1H1F	C6-S6	-2.76	1.67	1.77
2	VB	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	ZC	3	A1H1F	C6-S6	-2.76	1.67	1.77
2	5C	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	fC	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	q	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	5A	3	A1H1F	C6-S6	-2.76	1.67	1.77
4	vA	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	LC	3	A1H1F	C6-S6	-2.76	1.67	1.77
2	WC	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	x	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	5	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	WA	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	YC	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	gC	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	y	3	A1H1F	C6-S6	-2.76	1.67	1.77
3	hB	3	A1H1F	C6-S6	-2.75	1.67	1.77
3	nA	3	A1H1F	C6-S6	-2.75	1.67	1.77
3	TB	3	A1H1F	C6-S6	-2.74	1.67	1.77
3	SA	3	A1H1F	C6-S6	-2.74	1.67	1.77
3	AD	3	A1H1F	C6-S6	-2.74	1.67	1.77
3	1A	3	A1H1F	C6-S6	-2.74	1.67	1.77
3	vB	3	A1H1F	C6-S6	-2.74	1.67	1.77
3	EA	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	NC	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	t	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	gA	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	bC	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	9B	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	GC	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	aB	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	0	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	MB	3	A1H1F	C6-S6	-2.73	1.67	1.77
3	m	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	oB	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	uA	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	HD	3	A1H1F	C6-S6	-2.72	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8A	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	2B	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	LA	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	3C	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	UC	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	ZA	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	FB	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	7	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	pC	3	A1H1F	C6-S6	-2.72	1.67	1.77
3	wC	3	A1H1F	C6-S6	-2.71	1.67	1.77
3	iC	3	A1H1F	C6-S6	-2.70	1.67	1.77
3	lB	3	A1H1F	C2-C3	2.02	1.55	1.52
3	yA	3	A1H1F	C2-C3	2.01	1.55	1.52
3	mC	3	A1H1F	C2-C3	2.01	1.55	1.52

All (2326) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	DA	3	A1H1F	C1-O5-C5	6.57	121.09	112.19
4	6	3	A1H1F	C1-O5-C5	6.55	121.06	112.19
4	8B	3	A1H1F	C1-O5-C5	6.55	121.06	112.19
4	nB	3	A1H1F	C1-O5-C5	6.55	121.06	112.19
4	KA	3	A1H1F	C1-O5-C5	6.54	121.06	112.19
4	TC	3	A1H1F	C1-O5-C5	6.54	121.06	112.19
4	mA	3	A1H1F	C1-O5-C5	6.54	121.05	112.19
4	0A	3	A1H1F	C1-O5-C5	6.54	121.05	112.19
4	9C	3	A1H1F	C1-O5-C5	6.54	121.05	112.19
4	z	3	A1H1F	C1-O5-C5	6.54	121.05	112.19
4	tA	3	A1H1F	C1-O5-C5	6.53	121.05	112.19
4	1B	3	A1H1F	C1-O5-C5	6.53	121.05	112.19
4	EB	3	A1H1F	C1-O5-C5	6.53	121.04	112.19
4	MC	3	A1H1F	C1-O5-C5	6.53	121.03	112.19
4	SB	3	A1H1F	C1-O5-C5	6.52	121.03	112.19
4	vC	3	A1H1F	C1-O5-C5	6.52	121.03	112.19
4	GD	3	A1H1F	C1-O5-C5	6.52	121.03	112.19
4	2C	3	A1H1F	C1-O5-C5	6.52	121.02	112.19
4	l	3	A1H1F	C1-O5-C5	6.52	121.02	112.19
4	s	3	A1H1F	C1-O5-C5	6.51	121.02	112.19
4	gB	3	A1H1F	C1-O5-C5	6.51	121.02	112.19
4	fA	3	A1H1F	C1-O5-C5	6.51	121.01	112.19
4	YA	3	A1H1F	C1-O5-C5	6.51	121.01	112.19
4	7A	3	A1H1F	C1-O5-C5	6.51	121.01	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	RA	3	A1H1F	C1-O5-C5	6.51	121.01	112.19
4	FC	3	A1H1F	C1-O5-C5	6.51	121.01	112.19
4	ZB	3	A1H1F	C1-O5-C5	6.51	121.01	112.19
4	oC	3	A1H1F	C1-O5-C5	6.50	121.00	112.19
4	uB	3	A1H1F	C1-O5-C5	6.50	121.00	112.19
4	LB	3	A1H1F	C1-O5-C5	6.50	121.00	112.19
4	aC	3	A1H1F	C1-O5-C5	6.50	121.00	112.19
4	hC	3	A1H1F	C1-O5-C5	6.48	120.97	112.19
2	OB	5	MAN	C1-O5-C5	5.64	119.83	112.19
2	pA	5	MAN	C1-O5-C5	5.64	119.83	112.19
2	o	5	MAN	C1-O5-C5	5.63	119.82	112.19
2	IC	5	MAN	C1-O5-C5	5.63	119.82	112.19
2	v	5	MAN	C1-O5-C5	5.63	119.81	112.19
2	dC	5	MAN	C1-O5-C5	5.63	119.81	112.19
2	kC	5	MAN	C1-O5-C5	5.63	119.81	112.19
2	3A	5	MAN	C1-O5-C5	5.62	119.81	112.19
2	HB	5	MAN	C1-O5-C5	5.62	119.81	112.19
2	5C	5	MAN	C1-O5-C5	5.62	119.81	112.19
2	iA	5	MAN	C1-O5-C5	5.62	119.81	112.19
2	GA	5	MAN	C1-O5-C5	5.62	119.80	112.19
2	WC	5	MAN	C1-O5-C5	5.62	119.80	112.19
2	xB	5	MAN	C1-O5-C5	5.61	119.80	112.19
2	2	5	MAN	C1-O5-C5	5.61	119.79	112.19
2	BC	5	MAN	C1-O5-C5	5.61	119.79	112.19
2	h	5	MAN	C1-O5-C5	5.61	119.79	112.19
2	PC	5	MAN	C1-O5-C5	5.60	119.78	112.19
2	cB	5	MAN	C1-O5-C5	5.60	119.78	112.19
2	4B	5	MAN	C1-O5-C5	5.60	119.78	112.19
2	CD	5	MAN	C1-O5-C5	5.60	119.78	112.19
2	NA	5	MAN	C1-O5-C5	5.60	119.78	112.19
2	UA	5	MAN	C1-O5-C5	5.59	119.77	112.19
2	AB	5	MAN	C1-O5-C5	5.59	119.77	112.19
2	jB	5	MAN	C1-O5-C5	5.59	119.76	112.19
2	qB	5	MAN	C1-O5-C5	5.58	119.76	112.19
2	VB	5	MAN	C1-O5-C5	5.58	119.75	112.19
2	9	5	MAN	C1-O5-C5	5.58	119.75	112.19
2	wA	5	MAN	C1-O5-C5	5.58	119.75	112.19
2	rC	5	MAN	C1-O5-C5	5.57	119.74	112.19
2	yC	5	MAN	C1-O5-C5	5.57	119.74	112.19
2	bA	5	MAN	C1-O5-C5	5.57	119.73	112.19
2	AB	4	MAN	C1-O5-C5	4.45	118.23	112.19
2	NA	4	MAN	C1-O5-C5	4.45	118.22	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	IC	4	MAN	C1-O5-C5	4.44	118.20	112.19
2	iA	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	xB	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	dC	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	9	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	GA	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	rC	4	MAN	C1-O5-C5	4.43	118.19	112.19
2	5C	4	MAN	C1-O5-C5	4.42	118.19	112.19
2	2	4	MAN	C1-O5-C5	4.42	118.19	112.19
2	UA	4	MAN	C1-O5-C5	4.42	118.18	112.19
2	3A	4	MAN	C1-O5-C5	4.42	118.18	112.19
2	HB	4	MAN	C1-O5-C5	4.42	118.18	112.19
2	qB	4	MAN	C1-O5-C5	4.42	118.17	112.19
2	wA	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	yC	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	bA	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	pA	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	h	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	VB	4	MAN	C1-O5-C5	4.41	118.17	112.19
2	jB	4	MAN	C1-O5-C5	4.41	118.16	112.19
2	PC	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	CD	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	v	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	o	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	kC	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	cB	4	MAN	C1-O5-C5	4.40	118.15	112.19
2	WC	4	MAN	C1-O5-C5	4.39	118.14	112.19
2	4B	4	MAN	C1-O5-C5	4.38	118.13	112.19
2	BC	4	MAN	C1-O5-C5	4.38	118.13	112.19
2	OB	4	MAN	C1-O5-C5	4.38	118.12	112.19
3	dA	3	A1H1F	C1-C2-C3	4.28	114.93	109.67
3	x	3	A1H1F	C1-C2-C3	4.27	114.91	109.67
3	eB	3	A1H1F	C1-C2-C3	4.26	114.91	109.67
3	RC	3	A1H1F	C1-C2-C3	4.26	114.90	109.67
3	4	3	A1H1F	C1-C2-C3	4.26	114.90	109.67
3	5A	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	JB	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	WA	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	ED	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	zB	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	DC	3	A1H1F	C1-C2-C3	4.25	114.89	109.67
3	fC	3	A1H1F	C1-C2-C3	4.25	114.89	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	lB	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	tC	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	j	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	q	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	mC	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	PA	3	A1H1F	C1-C2-C3	4.24	114.88	109.67
3	BA	3	A1H1F	C1-C2-C3	4.24	114.87	109.67
3	QB	3	A1H1F	C1-C2-C3	4.24	114.87	109.67
3	yA	3	A1H1F	C1-C2-C3	4.24	114.87	109.67
3	kA	3	A1H1F	C1-C2-C3	4.23	114.87	109.67
3	7C	3	A1H1F	C1-C2-C3	4.23	114.87	109.67
3	sB	3	A1H1F	C1-C2-C3	4.23	114.87	109.67
3	6B	3	A1H1F	C1-C2-C3	4.23	114.87	109.67
3	rA	3	A1H1F	C1-C2-C3	4.23	114.86	109.67
3	KC	3	A1H1F	C1-C2-C3	4.23	114.86	109.67
3	XB	3	A1H1F	C1-C2-C3	4.23	114.86	109.67
3	CB	3	A1H1F	C1-C2-C3	4.23	114.86	109.67
3	YC	3	A1H1F	C1-C2-C3	4.23	114.86	109.67
3	0C	3	A1H1F	C1-C2-C3	4.22	114.86	109.67
3	IA	3	A1H1F	C1-C2-C3	4.20	114.83	109.67
4	tA	3	A1H1F	C1-C2-C3	4.19	114.81	109.67
4	oC	3	A1H1F	C1-C2-C3	4.16	114.78	109.67
4	gB	3	A1H1F	C1-C2-C3	4.16	114.77	109.67
4	MC	3	A1H1F	C1-C2-C3	4.15	114.76	109.67
4	6	3	A1H1F	C1-C2-C3	4.14	114.76	109.67
4	SB	3	A1H1F	C1-C2-C3	4.14	114.76	109.67
4	TC	3	A1H1F	C1-C2-C3	4.14	114.76	109.67
4	mA	3	A1H1F	C1-C2-C3	4.14	114.76	109.67
4	vC	3	A1H1F	C1-C2-C3	4.14	114.75	109.67
4	z	3	A1H1F	C1-C2-C3	4.14	114.75	109.67
4	1B	3	A1H1F	C1-C2-C3	4.14	114.75	109.67
4	ZB	3	A1H1F	C1-C2-C3	4.13	114.75	109.67
4	9C	3	A1H1F	C1-C2-C3	4.13	114.75	109.67
4	7A	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	EB	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	FC	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	RA	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	GD	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	2C	3	A1H1F	C1-C2-C3	4.13	114.74	109.67
4	l	3	A1H1F	C1-C2-C3	4.12	114.73	109.67
4	fA	3	A1H1F	C1-C2-C3	4.12	114.73	109.67
4	nB	3	A1H1F	C1-C2-C3	4.12	114.73	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	DA	3	A1H1F	C1-C2-C3	4.12	114.73	109.67
4	aC	3	A1H1F	C1-C2-C3	4.12	114.73	109.67
4	uB	3	A1H1F	C1-C2-C3	4.11	114.72	109.67
4	KA	3	A1H1F	C1-C2-C3	4.11	114.71	109.67
4	8B	3	A1H1F	C1-C2-C3	4.11	114.71	109.67
4	hC	3	A1H1F	C1-C2-C3	4.10	114.71	109.67
4	s	3	A1H1F	C1-C2-C3	4.09	114.70	109.67
4	LB	3	A1H1F	C1-C2-C3	4.09	114.70	109.67
4	YA	3	A1H1F	C1-C2-C3	4.09	114.70	109.67
4	0A	3	A1H1F	C1-C2-C3	4.08	114.69	109.67
4	jC	1	GAL	C1-C2-C3	3.95	114.53	109.67
4	HC	1	GAL	C1-C2-C3	3.95	114.52	109.67
4	AC	1	GAL	C1-C2-C3	3.94	114.52	109.67
4	FA	1	GAL	C1-C2-C3	3.94	114.51	109.67
4	oA	1	GAL	C1-C2-C3	3.94	114.51	109.67
4	BD	1	GAL	C1-C2-C3	3.94	114.51	109.67
4	pB	1	GAL	C1-C2-C3	3.94	114.50	109.67
4	OC	1	GAL	C1-C2-C3	3.94	114.50	109.67
4	1	1	GAL	C1-C2-C3	3.93	114.50	109.67
4	MA	1	GAL	C1-C2-C3	3.93	114.49	109.67
4	TA	1	GAL	C1-C2-C3	3.93	114.49	109.67
4	cC	1	GAL	C1-C2-C3	3.93	114.49	109.67
4	vA	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	u	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	VC	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	9A	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	3B	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	xC	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	4C	1	GAL	C1-C2-C3	3.92	114.49	109.67
4	n	1	GAL	C1-C2-C3	3.92	114.48	109.67
4	GB	1	GAL	C1-C2-C3	3.92	114.48	109.67
4	qC	1	GAL	C1-C2-C3	3.91	114.48	109.67
4	NB	1	GAL	C1-C2-C3	3.91	114.48	109.67
4	ID	1	GAL	C1-C2-C3	3.91	114.47	109.67
4	8	1	GAL	C1-C2-C3	3.91	114.47	109.67
4	hA	1	GAL	C1-C2-C3	3.91	114.47	109.67
4	bB	1	GAL	C1-C2-C3	3.91	114.47	109.67
4	aA	1	GAL	C1-C2-C3	3.90	114.46	109.67
4	2A	1	GAL	C1-C2-C3	3.89	114.45	109.67
4	UB	1	GAL	C1-C2-C3	3.89	114.44	109.67
4	wB	1	GAL	C1-C2-C3	3.88	114.44	109.67
4	iB	1	GAL	C1-C2-C3	3.88	114.44	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	q	5	MAN	C1-C2-C3	3.65	114.15	109.67
3	XB	5	MAN	C1-C2-C3	3.64	114.14	109.67
4	VC	4	MAN	C1-O5-C5	3.63	117.12	112.19
3	DC	5	MAN	C1-C2-C3	3.63	114.13	109.67
4	GB	4	MAN	C1-O5-C5	3.63	117.11	112.19
4	AC	4	MAN	C1-O5-C5	3.63	117.11	112.19
3	QB	5	MAN	C1-C2-C3	3.62	114.12	109.67
4	FA	4	MAN	C1-O5-C5	3.62	117.10	112.19
4	oA	4	MAN	C1-O5-C5	3.62	117.10	112.19
4	3B	4	MAN	C1-O5-C5	3.62	117.10	112.19
3	dA	5	MAN	C1-C2-C3	3.62	114.11	109.67
4	hA	4	MAN	C1-O5-C5	3.62	117.09	112.19
4	ID	4	MAN	C1-O5-C5	3.62	117.09	112.19
3	JB	5	MAN	C1-C2-C3	3.61	114.11	109.67
3	PA	5	MAN	C1-C2-C3	3.61	114.11	109.67
3	6B	5	MAN	C1-C2-C3	3.61	114.11	109.67
3	mC	5	MAN	C1-C2-C3	3.61	114.11	109.67
3	rA	5	MAN	C1-C2-C3	3.61	114.11	109.67
3	7C	5	MAN	C1-C2-C3	3.61	114.11	109.67
4	2A	4	MAN	C1-O5-C5	3.61	117.09	112.19
3	WA	5	MAN	C1-C2-C3	3.61	114.10	109.67
3	lB	5	MAN	C1-C2-C3	3.61	114.10	109.67
3	eB	5	MAN	C1-C2-C3	3.61	114.10	109.67
3	0C	5	MAN	C1-C2-C3	3.61	114.10	109.67
3	CB	5	MAN	C1-C2-C3	3.61	114.10	109.67
3	j	5	MAN	C1-C2-C3	3.60	114.10	109.67
3	sB	5	MAN	C1-C2-C3	3.60	114.10	109.67
4	n	4	MAN	C1-O5-C5	3.60	117.07	112.19
4	u	4	MAN	C1-O5-C5	3.60	117.07	112.19
4	bB	4	MAN	C1-O5-C5	3.60	117.07	112.19
4	pB	4	MAN	C1-O5-C5	3.60	117.07	112.19
3	fC	5	MAN	C1-C2-C3	3.60	114.09	109.67
4	MA	4	MAN	C1-O5-C5	3.60	117.07	112.19
3	BA	5	MAN	C1-C2-C3	3.60	114.09	109.67
4	TA	4	MAN	C1-O5-C5	3.60	117.07	112.19
3	ED	5	MAN	C1-C2-C3	3.60	114.09	109.67
4	cC	4	MAN	C1-O5-C5	3.60	117.07	112.19
3	5A	5	MAN	C1-C2-C3	3.60	114.09	109.67
3	RC	5	MAN	C1-C2-C3	3.60	114.09	109.67
3	tC	5	MAN	C1-C2-C3	3.60	114.09	109.67
4	9A	4	MAN	C1-O5-C5	3.60	117.06	112.19
4	xC	4	MAN	C1-O5-C5	3.60	117.06	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	kA	5	MAN	C1-C2-C3	3.60	114.08	109.67
4	vA	4	MAN	C1-O5-C5	3.59	117.06	112.19
4	HC	4	MAN	C1-O5-C5	3.59	117.06	112.19
4	OC	4	MAN	C1-O5-C5	3.59	117.06	112.19
3	KC	5	MAN	C1-C2-C3	3.59	114.08	109.67
4	qC	4	MAN	C1-O5-C5	3.59	117.05	112.19
4	iB	4	MAN	C1-O5-C5	3.59	117.05	112.19
3	IA	5	MAN	C1-C2-C3	3.58	114.07	109.67
3	yA	5	MAN	C1-C2-C3	3.58	114.07	109.67
4	jC	4	MAN	C1-O5-C5	3.58	117.05	112.19
4	UB	4	MAN	C1-O5-C5	3.58	117.04	112.19
4	4C	4	MAN	C1-O5-C5	3.58	117.04	112.19
4	8	4	MAN	C1-O5-C5	3.58	117.04	112.19
4	1	4	MAN	C1-O5-C5	3.58	117.04	112.19
4	aA	4	MAN	C1-O5-C5	3.57	117.03	112.19
4	BD	4	MAN	C1-O5-C5	3.57	117.03	112.19
3	YC	5	MAN	C1-C2-C3	3.57	114.06	109.67
3	4	5	MAN	C1-C2-C3	3.57	114.06	109.67
3	zB	5	MAN	C1-C2-C3	3.57	114.06	109.67
3	x	5	MAN	C1-C2-C3	3.56	114.04	109.67
4	wB	4	MAN	C1-O5-C5	3.55	117.01	112.19
4	NB	4	MAN	C1-O5-C5	3.54	116.99	112.19
3	tB	2	BGC	C1-C2-C3	3.53	114.01	109.67
3	7B	2	BGC	C1-C2-C3	3.52	114.00	109.67
3	sA	2	BGC	C1-C2-C3	3.52	114.00	109.67
3	1C	2	BGC	C1-C2-C3	3.52	113.99	109.67
3	8C	2	BGC	C1-C2-C3	3.52	113.99	109.67
3	mB	5	MAN	C1-O5-C5	3.51	116.95	112.19
3	CA	2	BGC	C1-C2-C3	3.51	113.98	109.67
3	mB	2	BGC	C1-C2-C3	3.51	113.98	109.67
3	uC	2	BGC	C1-C2-C3	3.51	113.98	109.67
3	SC	5	MAN	C1-O5-C5	3.51	116.94	112.19
3	eA	2	BGC	C1-C2-C3	3.51	113.97	109.67
3	0B	2	BGC	C1-C2-C3	3.50	113.97	109.67
3	EC	2	BGC	C1-C2-C3	3.50	113.97	109.67
3	FD	2	BGC	C1-C2-C3	3.50	113.97	109.67
3	YB	5	MAN	C1-O5-C5	3.50	116.94	112.19
3	5	2	BGC	C1-C2-C3	3.50	113.97	109.67
4	LB	4	MAN	C1-C2-C3	3.50	113.97	109.67
3	KB	2	BGC	C1-C2-C3	3.50	113.97	109.67
3	XA	2	BGC	C1-C2-C3	3.50	113.97	109.67
3	LC	2	BGC	C1-C2-C3	3.50	113.97	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	JA	2	BGC	C1-C2-C3	3.50	113.96	109.67
3	k	2	BGC	C1-C2-C3	3.50	113.96	109.67
4	9C	4	MAN	C1-C2-C3	3.49	113.96	109.67
4	GD	4	MAN	C1-C2-C3	3.49	113.96	109.67
3	y	2	BGC	C1-C2-C3	3.49	113.96	109.67
3	r	2	BGC	C1-C2-C3	3.49	113.96	109.67
3	fB	2	BGC	C1-C2-C3	3.49	113.96	109.67
3	gC	2	BGC	C1-C2-C3	3.49	113.96	109.67
4	ZB	4	MAN	C1-C2-C3	3.49	113.96	109.67
3	FD	5	MAN	C1-O5-C5	3.49	116.92	112.19
3	zA	2	BGC	C1-C2-C3	3.49	113.96	109.67
3	6A	2	BGC	C1-C2-C3	3.49	113.96	109.67
4	tA	4	MAN	C1-C2-C3	3.49	113.96	109.67
3	5	5	MAN	C1-O5-C5	3.49	116.92	112.19
4	1B	4	MAN	C1-C2-C3	3.49	113.96	109.67
3	sA	5	MAN	C1-O5-C5	3.49	116.92	112.19
3	fB	5	MAN	C1-O5-C5	3.49	116.92	112.19
3	lA	2	BGC	C1-C2-C3	3.49	113.95	109.67
4	DA	4	MAN	C1-C2-C3	3.49	113.95	109.67
4	SB	4	MAN	C1-C2-C3	3.49	113.95	109.67
4	vC	4	MAN	C1-C2-C3	3.49	113.95	109.67
3	0B	5	MAN	C1-O5-C5	3.49	116.92	112.19
3	nC	2	BGC	C1-C2-C3	3.49	113.95	109.67
4	EB	4	MAN	C1-C2-C3	3.49	113.95	109.67
4	nB	4	MAN	C1-C2-C3	3.48	113.95	109.67
3	QA	5	MAN	C1-O5-C5	3.48	116.91	112.19
4	aC	4	MAN	C1-C2-C3	3.48	113.95	109.67
3	gC	5	MAN	C1-O5-C5	3.48	116.91	112.19
3	YB	2	BGC	C1-C2-C3	3.48	113.95	109.67
4	l	4	MAN	C1-C2-C3	3.48	113.94	109.67
4	7A	4	MAN	C1-C2-C3	3.48	113.94	109.67
4	MC	4	MAN	C1-C2-C3	3.48	113.94	109.67
4	z	4	MAN	C1-C2-C3	3.48	113.94	109.67
4	RA	4	MAN	C1-C2-C3	3.48	113.94	109.67
3	KB	5	MAN	C1-O5-C5	3.48	116.90	112.19
4	8B	4	MAN	C1-C2-C3	3.48	113.94	109.67
3	CA	5	MAN	C1-O5-C5	3.47	116.90	112.19
3	DB	2	BGC	C1-C2-C3	3.47	113.94	109.67
3	SC	2	BGC	C1-C2-C3	3.47	113.94	109.67
3	6A	5	MAN	C1-O5-C5	3.47	116.90	112.19
3	RB	2	BGC	C1-C2-C3	3.47	113.93	109.67
3	XA	5	MAN	C1-O5-C5	3.47	116.90	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	DB	5	MAN	C1-O5-C5	3.47	116.90	112.19
3	LC	5	MAN	C1-O5-C5	3.47	116.90	112.19
3	uC	5	MAN	C1-O5-C5	3.47	116.90	112.19
3	QA	2	BGC	C1-C2-C3	3.47	113.93	109.67
4	mA	4	MAN	C1-C2-C3	3.47	113.93	109.67
3	ZC	5	MAN	C1-O5-C5	3.47	116.89	112.19
3	k	5	MAN	C1-O5-C5	3.47	116.89	112.19
3	8C	5	MAN	C1-O5-C5	3.47	116.89	112.19
4	KA	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	FC	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	0A	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	gB	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	TC	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	2C	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	hC	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	6	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	fA	4	MAN	C1-C2-C3	3.46	113.92	109.67
4	uB	4	MAN	C1-C2-C3	3.46	113.92	109.67
3	eA	5	MAN	C1-O5-C5	3.46	116.88	112.19
3	nC	5	MAN	C1-O5-C5	3.46	116.88	112.19
4	oC	4	MAN	C1-C2-C3	3.46	113.92	109.67
3	tB	5	MAN	C1-O5-C5	3.46	116.88	112.19
3	ZC	2	BGC	C1-C2-C3	3.46	113.92	109.67
3	7B	5	MAN	C1-O5-C5	3.46	116.88	112.19
3	1C	5	MAN	C1-O5-C5	3.46	116.87	112.19
3	EC	5	MAN	C1-O5-C5	3.45	116.87	112.19
3	y	5	MAN	C1-O5-C5	3.45	116.87	112.19
4	1B	1	GAL	C1-C2-C3	3.45	113.90	109.67
3	r	5	MAN	C1-O5-C5	3.45	116.86	112.19
4	s	4	MAN	C1-C2-C3	3.45	113.90	109.67
3	JA	5	MAN	C1-O5-C5	3.45	116.86	112.19
3	lA	5	MAN	C1-O5-C5	3.44	116.86	112.19
3	RB	5	MAN	C1-O5-C5	3.44	116.86	112.19
4	YA	4	MAN	C1-C2-C3	3.44	113.90	109.67
4	gB	1	GAL	C1-C2-C3	3.44	113.89	109.67
4	DA	1	GAL	C1-C2-C3	3.43	113.89	109.67
4	nB	1	GAL	C1-C2-C3	3.43	113.89	109.67
3	zA	5	MAN	C1-O5-C5	3.43	116.84	112.19
4	hC	1	GAL	C1-C2-C3	3.43	113.88	109.67
4	SB	1	GAL	C1-C2-C3	3.43	113.88	109.67
4	z	1	GAL	C1-C2-C3	3.43	113.88	109.67
4	vC	1	GAL	C1-C2-C3	3.43	113.88	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	uC	3	A1H1F	C1-O5-C5	3.43	116.83	112.19
4	mA	1	GAL	C1-C2-C3	3.42	113.88	109.67
4	ZB	1	GAL	C1-C2-C3	3.42	113.88	109.67
3	7B	3	A1H1F	C1-O5-C5	3.42	116.83	112.19
3	y	3	A1H1F	C1-O5-C5	3.42	116.83	112.19
3	mB	3	A1H1F	C1-O5-C5	3.42	116.83	112.19
4	7A	1	GAL	C1-C2-C3	3.42	113.87	109.67
3	lA	3	A1H1F	C1-O5-C5	3.42	116.83	112.19
3	sA	3	A1H1F	C1-O5-C5	3.42	116.83	112.19
4	6	1	GAL	C1-C2-C3	3.42	113.87	109.67
4	0A	1	GAL	C1-C2-C3	3.42	113.87	109.67
3	QA	3	A1H1F	C1-O5-C5	3.42	116.82	112.19
4	s	1	GAL	C1-C2-C3	3.42	113.86	109.67
4	RA	1	GAL	C1-C2-C3	3.41	113.86	109.67
4	EB	1	GAL	C1-C2-C3	3.41	113.86	109.67
4	FC	1	GAL	C1-C2-C3	3.41	113.86	109.67
3	DB	3	A1H1F	C1-O5-C5	3.41	116.82	112.19
3	RB	3	A1H1F	C1-O5-C5	3.41	116.82	112.19
3	ZC	3	A1H1F	C1-O5-C5	3.41	116.82	112.19
4	LB	1	GAL	C1-C2-C3	3.41	113.86	109.67
4	l	1	GAL	C1-C2-C3	3.41	113.86	109.67
4	oC	1	GAL	C1-C2-C3	3.41	113.86	109.67
3	zA	3	A1H1F	C1-O5-C5	3.41	116.81	112.19
4	aC	1	GAL	C1-C2-C3	3.41	113.85	109.67
4	9C	1	GAL	C1-C2-C3	3.41	113.85	109.67
4	GD	1	GAL	C1-C2-C3	3.41	113.85	109.67
4	MC	1	GAL	C1-C2-C3	3.40	113.85	109.67
3	YB	3	A1H1F	C1-O5-C5	3.40	116.80	112.19
4	fA	1	GAL	C1-C2-C3	3.40	113.84	109.67
4	8B	1	GAL	C1-C2-C3	3.40	113.84	109.67
3	6A	3	A1H1F	C1-O5-C5	3.40	116.80	112.19
3	8C	3	A1H1F	C1-O5-C5	3.40	116.80	112.19
3	fB	3	A1H1F	C1-O5-C5	3.40	116.79	112.19
4	2C	1	GAL	C1-C2-C3	3.40	113.84	109.67
3	FD	3	A1H1F	C1-O5-C5	3.39	116.79	112.19
4	YA	1	GAL	C1-C2-C3	3.39	113.84	109.67
3	k	3	A1H1F	C1-O5-C5	3.39	116.78	112.19
3	XA	3	A1H1F	C1-O5-C5	3.39	116.78	112.19
3	EC	3	A1H1F	C1-O5-C5	3.39	116.78	112.19
3	nC	3	A1H1F	C1-O5-C5	3.39	116.78	112.19
4	KA	1	GAL	C1-C2-C3	3.39	113.83	109.67
3	5	3	A1H1F	C1-O5-C5	3.39	116.78	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	LC	3	A1H1F	C1-O5-C5	3.39	116.78	112.19
4	uB	1	GAL	C1-C2-C3	3.39	113.83	109.67
3	r	3	A1H1F	C1-O5-C5	3.38	116.78	112.19
4	tA	1	GAL	C1-C2-C3	3.38	113.82	109.67
3	KB	3	A1H1F	C1-O5-C5	3.38	116.77	112.19
3	JA	3	A1H1F	C1-O5-C5	3.38	116.77	112.19
3	CA	3	A1H1F	C1-O5-C5	3.38	116.77	112.19
4	TC	1	GAL	C1-C2-C3	3.37	113.81	109.67
3	tB	3	A1H1F	C1-O5-C5	3.37	116.76	112.19
3	1C	3	A1H1F	C1-O5-C5	3.37	116.76	112.19
3	eA	3	A1H1F	C1-O5-C5	3.37	116.76	112.19
3	0B	3	A1H1F	C1-O5-C5	3.37	116.75	112.19
3	SC	3	A1H1F	C1-O5-C5	3.37	116.75	112.19
3	gC	3	A1H1F	C1-O5-C5	3.36	116.74	112.19
3	sB	3	A1H1F	C1-O5-C5	3.32	116.70	112.19
3	6B	3	A1H1F	C1-O5-C5	3.32	116.69	112.19
4	hC	3	A1H1F	O3S6-S6-C6	3.32	110.88	106.94
3	YB	3	A1H1F	O3S6-S6-C6	3.32	110.88	106.94
4	vC	3	A1H1F	O3S6-S6-C6	3.32	110.88	106.94
4	FC	3	A1H1F	O3S6-S6-C6	3.31	110.88	106.94
3	RC	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
3	tC	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
3	rA	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
3	KC	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
4	uB	3	A1H1F	O3S6-S6-C6	3.31	110.88	106.94
3	4	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
3	kA	3	A1H1F	C1-O5-C5	3.31	116.68	112.19
3	SA	2	BGC	C1-O5-C5	3.31	116.68	112.19
4	z	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
4	fA	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
4	EB	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
4	6	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
3	fC	3	A1H1F	C1-O5-C5	3.31	116.67	112.19
4	s	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
4	gB	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
3	JB	3	A1H1F	C1-O5-C5	3.31	116.67	112.19
3	pC	2	BGC	C1-O5-C5	3.31	116.67	112.19
4	DA	3	A1H1F	O3S6-S6-C6	3.31	110.87	106.94
4	KA	3	A1H1F	O3S6-S6-C6	3.30	110.87	106.94
4	TC	3	A1H1F	O3S6-S6-C6	3.30	110.87	106.94
4	tA	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
3	BA	3	A1H1F	C1-O5-C5	3.30	116.67	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1B	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
4	aC	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
3	mC	3	A1H1F	C1-O5-C5	3.30	116.66	112.19
3	3C	2	BGC	C1-O5-C5	3.30	116.66	112.19
4	l	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
4	SB	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
4	nB	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
3	WA	3	A1H1F	C1-O5-C5	3.30	116.66	112.19
3	1A	2	BGC	C1-O5-C5	3.30	116.66	112.19
4	8B	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
3	XB	3	A1H1F	C1-O5-C5	3.30	116.66	112.19
3	GC	2	BGC	C1-O5-C5	3.30	116.66	112.19
4	9C	3	A1H1F	O3S6-S6-C6	3.30	110.86	106.94
3	j	3	A1H1F	C1-O5-C5	3.30	116.66	112.19
3	YC	3	A1H1F	C1-O5-C5	3.30	116.66	112.19
3	UC	2	BGC	C1-O5-C5	3.29	116.66	112.19
3	5A	3	A1H1F	C1-O5-C5	3.29	116.66	112.19
3	wC	2	BGC	C1-O5-C5	3.29	116.65	112.19
3	CB	3	A1H1F	C1-O5-C5	3.29	116.65	112.19
3	7C	3	A1H1F	C1-O5-C5	3.29	116.65	112.19
3	uC	3	A1H1F	O3S6-S6-C6	3.29	110.85	106.94
3	x	3	A1H1F	C1-O5-C5	3.29	116.65	112.19
3	HD	2	BGC	C1-O5-C5	3.29	116.65	112.19
3	7	2	BGC	C1-O5-C5	3.29	116.65	112.19
3	DC	3	A1H1F	C1-O5-C5	3.29	116.65	112.19
3	0C	3	A1H1F	C1-O5-C5	3.29	116.65	112.19
3	PA	3	A1H1F	C1-O5-C5	3.29	116.64	112.19
3	fB	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	7B	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
4	oC	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	eB	3	A1H1F	C1-O5-C5	3.28	116.64	112.19
3	iC	2	BGC	C1-O5-C5	3.28	116.64	112.19
3	sA	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	dA	3	A1H1F	C1-O5-C5	3.28	116.64	112.19
3	r	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	q	3	A1H1F	C1-O5-C5	3.28	116.64	112.19
3	lB	3	A1H1F	C1-O5-C5	3.28	116.64	112.19
3	ED	3	A1H1F	C1-O5-C5	3.28	116.64	112.19
3	RB	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
4	RA	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
4	ZB	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	QB	3	A1H1F	C1-O5-C5	3.28	116.64	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	zA	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
4	2C	3	A1H1F	O3S6-S6-C6	3.28	110.84	106.94
3	1C	3	A1H1F	O3S6-S6-C6	3.28	110.83	106.94
3	NC	2	BGC	C1-O5-C5	3.28	116.63	112.19
3	m	2	BGC	C1-O5-C5	3.28	116.63	112.19
3	FB	2	BGC	C1-O5-C5	3.27	116.63	112.19
3	zB	3	A1H1F	C1-O5-C5	3.27	116.63	112.19
3	tB	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	gA	2	BGC	C1-O5-C5	3.27	116.63	112.19
3	nA	2	BGC	C1-O5-C5	3.27	116.63	112.19
3	oB	2	BGC	C1-O5-C5	3.27	116.63	112.19
3	9B	2	BGC	C1-O5-C5	3.27	116.63	112.19
4	LB	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	y	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	ZC	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	JA	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
4	YA	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
4	0A	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
4	MC	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	lA	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	DB	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	SC	3	A1H1F	O3S6-S6-C6	3.27	110.83	106.94
3	yA	3	A1H1F	C1-O5-C5	3.27	116.62	112.19
3	nC	3	A1H1F	O3S6-S6-C6	3.27	110.82	106.94
3	8A	2	BGC	C1-O5-C5	3.27	116.62	112.19
3	LC	3	A1H1F	O3S6-S6-C6	3.27	110.82	106.94
3	vB	2	BGC	C1-O5-C5	3.27	116.62	112.19
3	k	3	A1H1F	O3S6-S6-C6	3.26	110.82	106.94
3	gC	3	A1H1F	O3S6-S6-C6	3.26	110.82	106.94
3	t	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	MB	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	hB	2	BGC	C1-O5-C5	3.26	116.61	112.19
4	7A	3	A1H1F	O3S6-S6-C6	3.26	110.82	106.94
3	ZA	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	TB	2	BGC	C1-O5-C5	3.26	116.61	112.19
4	mA	3	A1H1F	O3S6-S6-C6	3.26	110.81	106.94
3	DC	2	BGC	C2-C3-C4	3.26	116.54	110.89
3	AD	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	QA	3	A1H1F	O3S6-S6-C6	3.26	110.81	106.94
3	aB	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	mB	3	A1H1F	O3S6-S6-C6	3.26	110.81	106.94
3	rA	2	BGC	C2-C3-C4	3.26	116.53	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2B	2	BGC	C1-O5-C5	3.26	116.61	112.19
3	6B	2	BGC	C2-C3-C4	3.26	116.53	110.89
3	EC	3	A1H1F	O3S6-S6-C6	3.26	110.81	106.94
3	FD	3	A1H1F	O3S6-S6-C6	3.26	110.81	106.94
3	uA	2	BGC	C1-O5-C5	3.26	116.60	112.19
3	lB	2	BGC	C2-C3-C4	3.25	116.53	110.89
3	ED	2	BGC	C2-C3-C4	3.25	116.52	110.89
3	0B	3	A1H1F	O3S6-S6-C6	3.25	110.80	106.94
3	CA	3	A1H1F	O3S6-S6-C6	3.25	110.80	106.94
3	0C	2	BGC	C2-C3-C4	3.25	116.52	110.89
3	WA	2	BGC	C2-C3-C4	3.25	116.52	110.89
3	8C	3	A1H1F	O3S6-S6-C6	3.25	110.80	106.94
3	XA	3	A1H1F	O3S6-S6-C6	3.25	110.80	106.94
3	LA	2	BGC	C1-O5-C5	3.25	116.59	112.19
3	eA	3	A1H1F	O3S6-S6-C6	3.25	110.80	106.94
3	bC	2	BGC	C1-O5-C5	3.25	116.59	112.19
3	YC	2	BGC	C2-C3-C4	3.25	116.51	110.89
3	0	2	BGC	C1-O5-C5	3.25	116.59	112.19
3	IA	3	A1H1F	C1-O5-C5	3.25	116.59	112.19
3	yA	2	BGC	C2-C3-C4	3.24	116.51	110.89
4	GD	3	A1H1F	O3S6-S6-C6	3.24	110.80	106.94
3	CB	2	BGC	C2-C3-C4	3.24	116.51	110.89
3	tC	2	BGC	C2-C3-C4	3.24	116.51	110.89
3	EA	2	BGC	C1-O5-C5	3.24	116.59	112.19
3	5	3	A1H1F	O3S6-S6-C6	3.24	110.79	106.94
3	QB	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	PA	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	j	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	mC	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	dA	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	BA	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	zB	2	BGC	C2-C3-C4	3.24	116.50	110.89
3	5A	2	BGC	C2-C3-C4	3.24	116.49	110.89
3	KB	3	A1H1F	O3S6-S6-C6	3.24	110.78	106.94
3	IA	2	BGC	C2-C3-C4	3.23	116.49	110.89
3	6A	3	A1H1F	O3S6-S6-C6	3.23	110.78	106.94
3	kA	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	XB	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	KC	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	eB	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	7C	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	sB	2	BGC	C2-C3-C4	3.23	116.48	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	x	2	BGC	C2-C3-C4	3.23	116.48	110.89
3	fC	2	BGC	C2-C3-C4	3.22	116.47	110.89
3	JB	2	BGC	C2-C3-C4	3.22	116.47	110.89
3	4	2	BGC	C2-C3-C4	3.22	116.46	110.89
3	q	2	BGC	C2-C3-C4	3.21	116.45	110.89
3	RC	2	BGC	C2-C3-C4	3.21	116.45	110.89
3	vB	1	GAL	C1-C2-C3	3.18	113.57	109.67
3	t	1	GAL	C1-C2-C3	3.17	113.57	109.67
3	HD	1	GAL	C1-C2-C3	3.17	113.56	109.67
3	EA	1	GAL	C1-C2-C3	3.16	113.56	109.67
3	pC	1	GAL	C1-C2-C3	3.16	113.56	109.67
3	UC	1	GAL	C1-C2-C3	3.16	113.55	109.67
3	SA	1	GAL	C1-C2-C3	3.16	113.55	109.67
3	NC	1	GAL	C1-C2-C3	3.16	113.55	109.67
3	bC	1	GAL	C1-C2-C3	3.15	113.54	109.67
3	3C	1	GAL	C1-C2-C3	3.15	113.54	109.67
3	1A	1	GAL	C1-C2-C3	3.15	113.54	109.67
3	MB	1	GAL	C1-C2-C3	3.15	113.54	109.67
3	ZA	1	GAL	C1-C2-C3	3.15	113.53	109.67
3	m	1	GAL	C1-C2-C3	3.14	113.53	109.67
3	hB	5	MAN	C1-O5-C5	3.14	116.45	112.19
3	FB	1	GAL	C1-C2-C3	3.14	113.53	109.67
3	GC	1	GAL	C1-C2-C3	3.14	113.53	109.67
3	1A	2	BGC	C1-C2-C3	3.14	113.52	109.67
3	oB	1	GAL	C1-C2-C3	3.14	113.52	109.67
3	iC	1	GAL	C1-C2-C3	3.14	113.52	109.67
3	MB	5	MAN	C1-O5-C5	3.14	116.44	112.19
3	TB	1	GAL	C1-C2-C3	3.13	113.52	109.67
3	2B	1	GAL	C1-C2-C3	3.13	113.52	109.67
3	uA	1	GAL	C1-C2-C3	3.13	113.52	109.67
3	6A	2	BGC	C2-C3-C4	3.13	116.31	110.89
3	SC	2	BGC	C2-C3-C4	3.13	116.31	110.89
3	hB	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	9B	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	gC	2	BGC	C2-C3-C4	3.13	116.31	110.89
3	7	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	AD	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	LA	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	gA	5	MAN	C1-O5-C5	3.13	116.43	112.19
3	8A	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	gA	1	GAL	C1-C2-C3	3.13	113.51	109.67
3	wC	1	GAL	C1-C2-C3	3.13	113.51	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	0	1	GAL	C1-C2-C3	3.12	113.51	109.67
3	FB	5	MAN	C1-O5-C5	3.12	116.42	112.19
3	CA	2	BGC	C2-C3-C4	3.12	116.30	110.89
3	fB	2	BGC	C2-C3-C4	3.12	116.29	110.89
3	aB	1	GAL	C1-C2-C3	3.12	113.50	109.67
3	r	2	BGC	C2-C3-C4	3.12	116.29	110.89
3	RB	2	BGC	C2-C3-C4	3.12	116.29	110.89
3	nC	2	BGC	C2-C3-C4	3.12	116.29	110.89
3	HD	5	MAN	C1-O5-C5	3.12	116.41	112.19
3	7	2	BGC	C1-C2-C3	3.12	113.50	109.67
3	MB	2	BGC	C1-C2-C3	3.12	113.50	109.67
3	fB	4	A1H03	C1-C2-C3	3.12	113.50	109.67
3	5	2	BGC	C2-C3-C4	3.11	116.28	110.89
3	gA	2	BGC	C1-C2-C3	3.11	113.49	109.67
3	UC	5	MAN	C1-O5-C5	3.11	116.41	112.19
3	8C	2	BGC	C2-C3-C4	3.11	116.28	110.89
3	ZA	5	MAN	C1-O5-C5	3.11	116.41	112.19
3	y	2	BGC	C2-C3-C4	3.11	116.28	110.89
3	NC	5	MAN	C1-O5-C5	3.11	116.41	112.19
3	mB	2	BGC	C2-C3-C4	3.11	116.28	110.89
3	t	5	MAN	C1-O5-C5	3.11	116.41	112.19
3	XA	4	A1H03	C1-C2-C3	3.11	113.49	109.67
3	DB	2	BGC	C2-C3-C4	3.11	116.28	110.89
3	JA	4	A1H03	C1-C2-C3	3.11	113.49	109.67
3	8A	2	BGC	C1-C2-C3	3.11	113.49	109.67
3	k	2	BGC	C2-C3-C4	3.11	116.27	110.89
3	TB	5	MAN	C1-O5-C5	3.11	116.40	112.19
3	iC	5	MAN	C1-O5-C5	3.11	116.40	112.19
3	ZC	2	BGC	C2-C3-C4	3.11	116.27	110.89
3	aB	5	MAN	C1-O5-C5	3.11	116.40	112.19
3	ZA	2	BGC	C1-C2-C3	3.10	113.48	109.67
3	YB	4	A1H03	C1-C2-C3	3.10	113.48	109.67
3	pC	2	BGC	C1-C2-C3	3.10	113.48	109.67
3	lA	2	BGC	C2-C3-C4	3.10	116.27	110.89
3	m	5	MAN	C1-O5-C5	3.10	116.40	112.19
3	bC	5	MAN	C1-O5-C5	3.10	116.40	112.19
3	1C	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	FD	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	1A	5	MAN	C1-O5-C5	3.10	116.39	112.19
3	EC	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	gC	4	A1H03	C1-C2-C3	3.10	113.48	109.67
3	QA	2	BGC	C2-C3-C4	3.10	116.26	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	zA	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	wC	5	MAN	C1-O5-C5	3.10	116.39	112.19
3	JA	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	nA	1	GAL	C1-C2-C3	3.10	113.48	109.67
3	KB	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	8A	5	MAN	C1-O5-C5	3.10	116.39	112.19
3	9B	3	A1H1F	O2S6-S6-C6	3.10	110.62	106.94
3	7B	2	BGC	C2-C3-C4	3.10	116.26	110.89
3	y	4	A1H03	C1-C2-C3	3.10	113.47	109.67
3	GC	5	MAN	C1-O5-C5	3.10	116.39	112.19
3	sA	2	BGC	C2-C3-C4	3.10	116.25	110.89
3	UC	2	BGC	C1-C2-C3	3.10	113.47	109.67
3	oB	5	MAN	C1-O5-C5	3.10	116.39	112.19
3	eA	2	BGC	C2-C3-C4	3.10	116.25	110.89
3	lA	4	A1H03	C1-C2-C3	3.10	113.47	109.67
3	XA	2	BGC	C2-C3-C4	3.10	116.25	110.89
3	vB	5	MAN	C1-O5-C5	3.09	116.39	112.19
3	YB	2	BGC	C2-C3-C4	3.09	116.25	110.89
3	0B	2	BGC	C2-C3-C4	3.09	116.25	110.89
3	RB	4	A1H03	C1-C2-C3	3.09	113.47	109.67
3	hB	2	BGC	C1-C2-C3	3.09	113.47	109.67
3	7B	4	A1H03	C1-C2-C3	3.09	113.47	109.67
3	LC	4	A1H03	C1-C2-C3	3.09	113.47	109.67
3	aB	2	BGC	C1-C2-C3	3.09	113.47	109.67
3	EA	2	BGC	C1-C2-C3	3.09	113.47	109.67
3	tB	4	A1H03	C1-C2-C3	3.09	113.47	109.67
3	iC	2	BGC	C1-C2-C3	3.09	113.47	109.67
3	9B	5	MAN	C1-O5-C5	3.09	116.38	112.19
3	GC	2	BGC	C1-C2-C3	3.09	113.46	109.67
3	8C	4	A1H03	C1-C2-C3	3.09	113.46	109.67
3	pC	5	MAN	C1-O5-C5	3.09	116.38	112.19
3	uC	2	BGC	C2-C3-C4	3.09	116.24	110.89
3	2B	5	MAN	C1-O5-C5	3.09	116.38	112.19
3	m	2	BGC	C1-C2-C3	3.09	113.46	109.67
3	3C	5	MAN	C1-O5-C5	3.09	116.37	112.19
3	tB	2	BGC	C2-C3-C4	3.09	116.24	110.89
3	LC	2	BGC	C2-C3-C4	3.09	116.24	110.89
3	eA	4	A1H03	C1-C2-C3	3.09	113.46	109.67
3	t	2	BGC	C1-C2-C3	3.08	113.46	109.67
3	AD	2	BGC	C1-C2-C3	3.08	113.46	109.67
3	nA	5	MAN	C1-O5-C5	3.08	116.37	112.19
3	2B	2	BGC	C1-C2-C3	3.08	113.46	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3C	2	BGC	C1-C2-C3	3.08	113.46	109.67
3	LA	5	MAN	C1-O5-C5	3.08	116.37	112.19
3	QA	4	A1H03	C1-C2-C3	3.08	113.46	109.67
3	SA	2	BGC	C1-C2-C3	3.08	113.46	109.67
3	zA	4	A1H03	C1-C2-C3	3.08	113.46	109.67
3	k	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	CA	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	9B	2	BGC	C1-C2-C3	3.08	113.45	109.67
3	EC	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	wC	2	BGC	C1-C2-C3	3.08	113.45	109.67
3	FD	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	SA	3	A1H1F	O2S6-S6-C6	3.08	110.60	106.94
3	LA	2	BGC	C1-C2-C3	3.08	113.45	109.67
3	1C	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	AD	5	MAN	C1-O5-C5	3.08	116.36	112.19
3	DB	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	NC	2	BGC	C1-C2-C3	3.08	113.45	109.67
3	r	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	6A	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	uA	5	MAN	C1-O5-C5	3.08	116.36	112.19
3	mB	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	nC	4	A1H03	C1-C2-C3	3.08	113.45	109.67
3	oB	2	BGC	C1-C2-C3	3.07	113.44	109.67
3	SA	5	MAN	C1-O5-C5	3.07	116.36	112.19
3	uA	2	BGC	C1-C2-C3	3.07	113.44	109.67
3	FB	2	BGC	C1-C2-C3	3.07	113.44	109.67
3	uC	4	A1H03	C1-C2-C3	3.07	113.44	109.67
3	SC	4	A1H03	C1-C2-C3	3.07	113.44	109.67
2	pA	3	A1H1F	O1S6-S6-C6	3.07	110.63	105.74
3	nA	3	A1H1F	O2S6-S6-C6	3.07	110.59	106.94
3	EA	5	MAN	C1-O5-C5	3.07	116.35	112.19
3	ZA	3	A1H1F	O2S6-S6-C6	3.07	110.58	106.94
3	7	5	MAN	C1-O5-C5	3.07	116.34	112.19
2	jB	3	A1H1F	O1S6-S6-C6	3.06	110.62	105.74
3	vB	3	A1H1F	O2S6-S6-C6	3.06	110.58	106.94
3	0B	4	A1H03	C1-C2-C3	3.06	113.43	109.67
2	5C	3	A1H1F	O1S6-S6-C6	3.06	110.62	105.74
3	5	4	A1H03	C1-C2-C3	3.06	113.43	109.67
3	HD	2	BGC	C1-C2-C3	3.06	113.43	109.67
3	nA	2	BGC	C1-C2-C3	3.06	113.43	109.67
3	ZC	4	A1H03	C1-C2-C3	3.06	113.43	109.67
2	NA	3	A1H1F	O1S6-S6-C6	3.06	110.61	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	TB	2	BGC	C1-C2-C3	3.06	113.42	109.67
3	EA	3	A1H1F	O2S6-S6-C6	3.06	110.57	106.94
3	hB	3	A1H1F	O2S6-S6-C6	3.06	110.57	106.94
3	0	5	MAN	C1-O5-C5	3.06	116.33	112.19
2	4B	3	A1H1F	O1S6-S6-C6	3.06	110.61	105.74
2	PC	3	A1H1F	O1S6-S6-C6	3.06	110.61	105.74
3	bC	2	BGC	C1-C2-C3	3.05	113.42	109.67
2	cB	3	A1H1F	O1S6-S6-C6	3.05	110.61	105.74
3	pC	3	A1H1F	O2S6-S6-C6	3.05	110.57	106.94
3	HD	3	A1H1F	O2S6-S6-C6	3.05	110.57	106.94
3	gA	3	A1H1F	O2S6-S6-C6	3.05	110.57	106.94
3	sA	4	A1H03	C1-C2-C3	3.05	113.42	109.67
2	OB	3	A1H1F	O1S6-S6-C6	3.05	110.60	105.74
3	t	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
3	0	2	BGC	C1-C2-C3	3.05	113.42	109.67
2	HB	3	A1H1F	O1S6-S6-C6	3.05	110.60	105.74
3	NC	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
2	qB	3	A1H1F	O1S6-S6-C6	3.05	110.60	105.74
3	0	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
3	KB	4	A1H03	C1-C2-C3	3.05	113.41	109.67
3	m	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
2	9	3	A1H1F	O1S6-S6-C6	3.05	110.60	105.74
3	UC	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
3	vB	2	BGC	C1-C2-C3	3.05	113.41	109.67
3	1A	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
3	FB	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
3	bC	3	A1H1F	O2S6-S6-C6	3.05	110.56	106.94
2	yC	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
2	AB	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
2	dC	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
2	rC	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
2	CD	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
3	LA	3	A1H1F	O2S6-S6-C6	3.04	110.56	106.94
3	aB	3	A1H1F	O2S6-S6-C6	3.04	110.56	106.94
3	oB	3	A1H1F	O2S6-S6-C6	3.04	110.55	106.94
3	wC	3	A1H1F	O2S6-S6-C6	3.04	110.55	106.94
2	o	3	A1H1F	O1S6-S6-C6	3.04	110.59	105.74
3	GC	3	A1H1F	O2S6-S6-C6	3.04	110.55	106.94
2	iA	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
2	3A	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
2	VB	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
2	h	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	xB	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
2	BC	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
2	v	3	A1H1F	O1S6-S6-C6	3.04	110.58	105.74
3	uA	3	A1H1F	O2S6-S6-C6	3.03	110.54	106.94
2	wA	3	A1H1F	O1S6-S6-C6	3.03	110.57	105.74
2	bA	3	A1H1F	O1S6-S6-C6	3.03	110.57	105.74
2	2	3	A1H1F	O1S6-S6-C6	3.03	110.57	105.74
2	UA	3	A1H1F	O1S6-S6-C6	3.03	110.57	105.74
2	IC	3	A1H1F	O1S6-S6-C6	3.03	110.57	105.74
3	MB	3	A1H1F	O2S6-S6-C6	3.03	110.54	106.94
3	2B	3	A1H1F	O2S6-S6-C6	3.03	110.54	106.94
2	GA	3	A1H1F	O1S6-S6-C6	3.03	110.56	105.74
2	WC	3	A1H1F	O1S6-S6-C6	3.02	110.56	105.74
3	AD	3	A1H1F	O2S6-S6-C6	3.02	110.53	106.94
3	7	3	A1H1F	O2S6-S6-C6	3.02	110.53	106.94
3	TB	3	A1H1F	O2S6-S6-C6	3.02	110.53	106.94
3	iC	3	A1H1F	O2S6-S6-C6	3.02	110.53	106.94
2	kC	3	A1H1F	O1S6-S6-C6	3.01	110.54	105.74
3	3C	3	A1H1F	O2S6-S6-C6	3.01	110.51	106.94
3	8A	3	A1H1F	O2S6-S6-C6	2.99	110.50	106.94
3	RC	1	GAL	C1-C2-C3	2.98	113.33	109.67
3	5A	1	GAL	C1-C2-C3	2.98	113.33	109.67
3	PA	1	GAL	C1-C2-C3	2.98	113.33	109.67
3	CB	1	GAL	C1-C2-C3	2.98	113.33	109.67
3	0C	1	GAL	C1-C2-C3	2.97	113.31	109.67
3	fC	1	GAL	C1-C2-C3	2.97	113.31	109.67
3	eB	1	GAL	C1-C2-C3	2.96	113.31	109.67
3	dA	1	GAL	C1-C2-C3	2.96	113.31	109.67
3	mC	1	GAL	C1-C2-C3	2.96	113.31	109.67
3	WA	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	7C	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	q	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	QB	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	XB	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	YC	1	GAL	C1-C2-C3	2.96	113.30	109.67
3	IA	1	GAL	C1-C2-C3	2.95	113.30	109.67
3	tC	1	GAL	C1-C2-C3	2.95	113.30	109.67
3	x	1	GAL	C1-C2-C3	2.95	113.29	109.67
3	j	1	GAL	C1-C2-C3	2.95	113.29	109.67
3	rA	1	GAL	C1-C2-C3	2.95	113.29	109.67
3	ED	1	GAL	C1-C2-C3	2.95	113.29	109.67
3	kA	1	GAL	C1-C2-C3	2.95	113.29	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	6B	1	GAL	C1-C2-C3	2.95	113.29	109.67
3	KC	1	GAL	C1-C2-C3	2.94	113.28	109.67
3	7	3	A1H1F	O1S6-S6-C6	2.94	110.43	105.74
2	UA	3	A1H1F	O3S6-S6-C6	2.94	110.44	106.94
3	sB	1	GAL	C1-C2-C3	2.94	113.28	109.67
3	DC	1	GAL	C1-C2-C3	2.94	113.28	109.67
4	cC	3	A1H1F	O2S6-S6-C6	2.94	110.43	106.94
3	yA	1	GAL	C1-C2-C3	2.94	113.27	109.67
2	bA	3	A1H1F	O3S6-S6-C6	2.93	110.43	106.94
2	CD	3	A1H1F	O3S6-S6-C6	2.93	110.42	106.94
2	HB	3	A1H1F	O3S6-S6-C6	2.93	110.42	106.94
3	UC	3	A1H1F	O1S6-S6-C6	2.93	110.41	105.74
2	NA	3	A1H1F	O3S6-S6-C6	2.93	110.42	106.94
3	4	1	GAL	C1-C2-C3	2.93	113.26	109.67
2	9	3	A1H1F	O3S6-S6-C6	2.93	110.42	106.94
3	zB	1	GAL	C1-C2-C3	2.93	113.26	109.67
3	oB	3	A1H1F	O1S6-S6-C6	2.92	110.40	105.74
3	BA	1	GAL	C1-C2-C3	2.92	113.26	109.67
3	gA	3	A1H1F	O1S6-S6-C6	2.92	110.40	105.74
2	v	3	A1H1F	O3S6-S6-C6	2.92	110.41	106.94
3	hB	3	A1H1F	O1S6-S6-C6	2.92	110.40	105.74
3	SA	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
2	jB	3	A1H1F	O3S6-S6-C6	2.92	110.41	106.94
4	FA	3	A1H1F	O2S6-S6-C6	2.92	110.41	106.94
4	FA	1	GAL	C1-O5-C5	2.92	116.15	112.19
3	1A	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
3	MB	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
3	TB	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
2	qB	3	A1H1F	O3S6-S6-C6	2.92	110.41	106.94
4	bB	3	A1H1F	O2S6-S6-C6	2.92	110.41	106.94
3	uA	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
2	PC	3	A1H1F	O3S6-S6-C6	2.92	110.41	106.94
4	LB	4	MAN	C1-O5-C5	2.92	116.14	112.19
4	wB	3	A1H1F	O2S6-S6-C6	2.92	110.41	106.94
3	wC	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
2	h	3	A1H1F	O3S6-S6-C6	2.92	110.41	106.94
3	AD	3	A1H1F	O1S6-S6-C6	2.92	110.39	105.74
2	iA	3	A1H1F	O3S6-S6-C6	2.92	110.40	106.94
3	vB	3	A1H1F	O1S6-S6-C6	2.91	110.39	105.74
3	lB	1	GAL	C1-C2-C3	2.91	113.25	109.67
3	NC	3	A1H1F	O1S6-S6-C6	2.91	110.38	105.74
3	nA	3	A1H1F	O1S6-S6-C6	2.91	110.38	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	oA	1	GAL	C1-O5-C5	2.91	116.14	112.19
2	o	3	A1H1F	O3S6-S6-C6	2.91	110.40	106.94
2	cB	3	A1H1F	O3S6-S6-C6	2.91	110.40	106.94
3	JB	1	GAL	C1-C2-C3	2.91	113.24	109.67
4	gB	4	MAN	C1-O5-C5	2.91	116.13	112.19
4	iB	3	A1H1F	O2S6-S6-C6	2.91	110.40	106.94
4	u	1	GAL	C1-O5-C5	2.91	116.13	112.19
4	TC	4	MAN	C1-O5-C5	2.91	116.13	112.19
3	bC	3	A1H1F	O1S6-S6-C6	2.91	110.38	105.74
3	m	3	A1H1F	O1S6-S6-C6	2.91	110.37	105.74
3	2B	3	A1H1F	O1S6-S6-C6	2.91	110.37	105.74
2	wA	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
2	WC	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
2	kC	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
2	GA	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
2	pA	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
3	GC	3	A1H1F	O1S6-S6-C6	2.91	110.37	105.74
3	FB	3	A1H1F	O1S6-S6-C6	2.91	110.37	105.74
2	IC	3	A1H1F	O3S6-S6-C6	2.91	110.39	106.94
4	vA	1	GAL	C1-O5-C5	2.91	116.13	112.19
3	tC	5	MAN	C1-O5-C5	2.90	116.13	112.19
4	ZB	4	MAN	C1-O5-C5	2.90	116.13	112.19
3	aB	3	A1H1F	O1S6-S6-C6	2.90	110.37	105.74
3	iC	3	A1H1F	O1S6-S6-C6	2.90	110.37	105.74
4	TA	1	GAL	C1-O5-C5	2.90	116.13	112.19
3	t	3	A1H1F	O1S6-S6-C6	2.90	110.37	105.74
4	xC	1	GAL	C1-O5-C5	2.90	116.12	112.19
4	mA	4	MAN	C1-O5-C5	2.90	116.12	112.19
4	HC	1	GAL	C1-O5-C5	2.90	116.12	112.19
4	qC	3	A1H1F	O2S6-S6-C6	2.90	110.38	106.94
3	9B	3	A1H1F	O1S6-S6-C6	2.90	110.36	105.74
4	pB	1	GAL	C1-O5-C5	2.90	116.12	112.19
3	HD	3	A1H1F	O1S6-S6-C6	2.90	110.36	105.74
4	SB	4	MAN	C1-O5-C5	2.90	116.12	112.19
2	4B	3	A1H1F	O3S6-S6-C6	2.90	110.38	106.94
3	LA	3	A1H1F	O1S6-S6-C6	2.90	110.36	105.74
3	pC	3	A1H1F	O1S6-S6-C6	2.90	110.36	105.74
4	AC	1	GAL	C1-O5-C5	2.90	116.11	112.19
4	4C	1	GAL	C1-O5-C5	2.90	116.11	112.19
3	8A	3	A1H1F	O1S6-S6-C6	2.90	110.35	105.74
2	3A	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94
2	OB	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3C	3	A1H1F	O1S6-S6-C6	2.89	110.35	105.74
3	rA	5	MAN	C1-O5-C5	2.89	116.11	112.19
4	BD	3	A1H1F	O2S6-S6-C6	2.89	110.38	106.94
4	0A	4	MAN	C1-O5-C5	2.89	116.11	112.19
2	VB	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94
4	nB	4	MAN	C1-O5-C5	2.89	116.11	112.19
2	xB	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94
2	BC	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94
3	0	3	A1H1F	O1S6-S6-C6	2.89	110.35	105.74
2	5C	3	A1H1F	O3S6-S6-C6	2.89	110.38	106.94
3	EA	3	A1H1F	O1S6-S6-C6	2.89	110.35	105.74
3	ZA	3	A1H1F	O1S6-S6-C6	2.89	110.35	105.74
4	YA	4	MAN	C1-O5-C5	2.89	116.11	112.19
4	NB	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
3	XA	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
4	8	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
4	9A	1	GAL	C1-O5-C5	2.89	116.11	112.19
4	bB	1	GAL	C1-O5-C5	2.89	116.11	112.19
4	2A	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
3	5A	5	MAN	C1-O5-C5	2.89	116.10	112.19
2	dC	3	A1H1F	O3S6-S6-C6	2.89	110.37	106.94
4	uB	4	MAN	C1-O5-C5	2.89	116.10	112.19
4	7A	4	MAN	C1-O5-C5	2.89	116.10	112.19
3	zA	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
3	0B	3	A1H1F	O2S6-S6-C6	2.89	110.37	106.94
3	7C	5	MAN	C1-O5-C5	2.89	116.10	112.19
4	n	1	GAL	C1-O5-C5	2.89	116.10	112.19
3	5	3	A1H1F	O2S6-S6-C6	2.88	110.37	106.94
4	3B	3	A1H1F	O2S6-S6-C6	2.88	110.37	106.94
4	n	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
3	JA	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	9A	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	GB	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	UB	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	HC	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	4C	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	2A	1	GAL	C1-O5-C5	2.88	116.10	112.19
2	rC	3	A1H1F	O3S6-S6-C6	2.88	110.36	106.94
3	IA	5	MAN	C1-O5-C5	2.88	116.09	112.19
4	hC	4	MAN	C1-O5-C5	2.88	116.09	112.19
2	AB	3	A1H1F	O3S6-S6-C6	2.88	110.36	106.94
4	hA	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	EB	4	MAN	C1-O5-C5	2.88	116.09	112.19
4	GB	1	GAL	C1-O5-C5	2.88	116.09	112.19
4	NB	1	GAL	C1-O5-C5	2.88	116.09	112.19
4	MC	4	MAN	C1-O5-C5	2.88	116.09	112.19
2	2	3	A1H1F	O3S6-S6-C6	2.88	110.36	106.94
4	1	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
3	yA	5	MAN	C1-O5-C5	2.88	116.09	112.19
3	CB	5	MAN	C1-O5-C5	2.88	116.09	112.19
4	1	1	GAL	C1-O5-C5	2.88	116.09	112.19
4	qC	1	GAL	C1-O5-C5	2.88	116.09	112.19
2	yC	3	A1H1F	O3S6-S6-C6	2.88	110.36	106.94
4	vA	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	tA	4	MAN	C1-O5-C5	2.88	116.09	112.19
4	FC	4	MAN	C1-O5-C5	2.88	116.09	112.19
4	MA	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	AC	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	l	4	MAN	C1-O5-C5	2.88	116.09	112.19
4	RA	4	MAN	C1-O5-C5	2.88	116.09	112.19
4	wB	1	GAL	C1-O5-C5	2.88	116.09	112.19
3	JB	5	MAN	C1-O5-C5	2.88	116.09	112.19
3	QB	5	MAN	C1-O5-C5	2.88	116.09	112.19
4	MA	1	GAL	C1-O5-C5	2.88	116.09	112.19
4	jC	1	GAL	C1-O5-C5	2.88	116.09	112.19
4	OC	3	A1H1F	O2S6-S6-C6	2.88	110.36	106.94
4	OC	1	GAL	C1-O5-C5	2.87	116.09	112.19
4	cC	1	GAL	C1-O5-C5	2.87	116.09	112.19
3	CA	3	A1H1F	O2S6-S6-C6	2.87	110.36	106.94
4	oA	3	A1H1F	O2S6-S6-C6	2.87	110.36	106.94
4	xC	3	A1H1F	O2S6-S6-C6	2.87	110.36	106.94
4	jC	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
4	6	4	MAN	C1-O5-C5	2.87	116.08	112.19
4	DA	4	MAN	C1-O5-C5	2.87	116.08	112.19
4	aA	1	GAL	C1-O5-C5	2.87	116.08	112.19
4	VC	1	GAL	C1-O5-C5	2.87	116.08	112.19
4	vC	4	MAN	C1-O5-C5	2.87	116.08	112.19
3	DC	5	MAN	C1-O5-C5	2.87	116.08	112.19
3	KC	5	MAN	C1-O5-C5	2.87	116.08	112.19
4	ID	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
3	gC	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
3	6B	5	MAN	C1-O5-C5	2.87	116.08	112.19
4	fA	4	MAN	C1-O5-C5	2.87	116.08	112.19
3	XB	3	A1H1F	O1S6-S6-C6	2.87	110.31	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	hA	1	GAL	C1-O5-C5	2.87	116.08	112.19
4	1B	4	MAN	C1-O5-C5	2.87	116.08	112.19
4	oC	4	MAN	C1-O5-C5	2.87	116.08	112.19
4	9C	4	MAN	C1-O5-C5	2.87	116.08	112.19
3	EC	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
3	1C	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
4	VC	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
4	aC	4	MAN	C1-O5-C5	2.87	116.08	112.19
4	pB	3	A1H1F	O2S6-S6-C6	2.87	110.35	106.94
3	dA	5	MAN	C1-O5-C5	2.87	116.08	112.19
4	iB	1	GAL	C1-O5-C5	2.87	116.08	112.19
4	8B	4	MAN	C1-O5-C5	2.87	116.08	112.19
3	KB	3	A1H1F	O2S6-S6-C6	2.87	110.34	106.94
4	TA	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	j	5	MAN	C1-O5-C5	2.86	116.07	112.19
3	q	5	MAN	C1-O5-C5	2.86	116.07	112.19
4	3B	1	GAL	C1-O5-C5	2.86	116.07	112.19
3	nC	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
4	ID	1	GAL	C1-O5-C5	2.86	116.07	112.19
3	6A	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
4	u	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
4	aA	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	lA	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	LC	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	8C	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	sA	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	4	5	MAN	C1-O5-C5	2.86	116.07	112.19
4	BD	1	GAL	C1-O5-C5	2.86	116.07	112.19
3	eA	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	RB	3	A1H1F	O2S6-S6-C6	2.86	110.34	106.94
3	0C	3	A1H1F	O1S6-S6-C6	2.86	110.30	105.74
4	8	1	GAL	C1-O5-C5	2.86	116.06	112.19
3	IA	3	A1H1F	O1S6-S6-C6	2.86	110.29	105.74
4	UB	1	GAL	C1-O5-C5	2.86	116.06	112.19
3	r	3	A1H1F	O2S6-S6-C6	2.86	110.33	106.94
3	7B	3	A1H1F	O2S6-S6-C6	2.86	110.33	106.94
4	z	4	MAN	C1-O5-C5	2.86	116.06	112.19
3	k	3	A1H1F	O2S6-S6-C6	2.86	110.33	106.94
3	QB	3	A1H1F	O1S6-S6-C6	2.85	110.29	105.74
3	7C	3	A1H1F	O1S6-S6-C6	2.85	110.29	105.74
3	lB	5	MAN	C1-O5-C5	2.85	116.06	112.19
3	zB	5	MAN	C1-O5-C5	2.85	116.06	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2C	4	MAN	C1-O5-C5	2.85	116.06	112.19
4	KA	4	MAN	C1-O5-C5	2.85	116.06	112.19
3	PA	5	MAN	C1-O5-C5	2.85	116.06	112.19
3	WA	5	MAN	C1-O5-C5	2.85	116.06	112.19
3	YB	3	A1H1F	O2S6-S6-C6	2.85	110.33	106.94
3	SC	3	A1H1F	O2S6-S6-C6	2.85	110.33	106.94
3	BA	3	A1H1F	O1S6-S6-C6	2.85	110.28	105.74
3	QA	3	A1H1F	O2S6-S6-C6	2.85	110.33	106.94
3	tB	3	A1H1F	O2S6-S6-C6	2.85	110.33	106.94
3	ZC	3	A1H1F	O2S6-S6-C6	2.85	110.33	106.94
3	RC	5	MAN	C1-O5-C5	2.85	116.05	112.19
3	mC	5	MAN	C1-O5-C5	2.85	116.05	112.19
4	s	4	MAN	C1-O5-C5	2.85	116.05	112.19
3	YC	5	MAN	C1-O5-C5	2.85	116.05	112.19
3	6B	3	A1H1F	O1S6-S6-C6	2.85	110.28	105.74
3	0C	5	MAN	C1-O5-C5	2.85	116.05	112.19
3	rA	3	A1H1F	O1S6-S6-C6	2.85	110.28	105.74
3	DC	3	A1H1F	O1S6-S6-C6	2.85	110.28	105.74
3	lB	3	A1H1F	O1S6-S6-C6	2.85	110.28	105.74
3	mB	3	A1H1F	O2S6-S6-C6	2.84	110.32	106.94
3	eB	5	MAN	C1-O5-C5	2.84	116.05	112.19
3	PA	3	A1H1F	O1S6-S6-C6	2.84	110.27	105.74
3	kA	5	MAN	C1-O5-C5	2.84	116.04	112.19
3	XB	5	MAN	C1-O5-C5	2.84	116.04	112.19
3	RC	3	A1H1F	O1S6-S6-C6	2.84	110.27	105.74
3	dA	3	A1H1F	O1S6-S6-C6	2.84	110.27	105.74
3	CB	3	A1H1F	O1S6-S6-C6	2.84	110.26	105.74
3	kA	3	A1H1F	O1S6-S6-C6	2.84	110.26	105.74
3	JB	3	A1H1F	O1S6-S6-C6	2.84	110.26	105.74
3	KC	3	A1H1F	O1S6-S6-C6	2.84	110.26	105.74
3	ED	5	MAN	C1-O5-C5	2.84	116.03	112.19
4	GD	4	MAN	C1-O5-C5	2.84	116.03	112.19
3	j	3	A1H1F	O1S6-S6-C6	2.84	110.26	105.74
3	x	5	MAN	C1-O5-C5	2.84	116.03	112.19
3	sB	5	MAN	C1-O5-C5	2.83	116.03	112.19
3	zB	3	A1H1F	O1S6-S6-C6	2.83	110.26	105.74
3	sB	3	A1H1F	O1S6-S6-C6	2.83	110.25	105.74
3	DB	3	A1H1F	O2S6-S6-C6	2.83	110.30	106.94
3	5A	3	A1H1F	O1S6-S6-C6	2.83	110.25	105.74
3	fC	3	A1H1F	O1S6-S6-C6	2.83	110.25	105.74
3	tC	3	A1H1F	O1S6-S6-C6	2.83	110.25	105.74
3	x	3	A1H1F	O1S6-S6-C6	2.83	110.25	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	y	3	A1H1F	O2S6-S6-C6	2.83	110.30	106.94
3	ED	3	A1H1F	O1S6-S6-C6	2.83	110.24	105.74
3	YC	3	A1H1F	O1S6-S6-C6	2.82	110.24	105.74
3	mC	3	A1H1F	O1S6-S6-C6	2.82	110.24	105.74
3	fB	3	A1H1F	O2S6-S6-C6	2.82	110.29	106.94
3	uC	3	A1H1F	O2S6-S6-C6	2.82	110.29	106.94
3	fC	5	MAN	C1-O5-C5	2.82	116.02	112.19
3	BA	5	MAN	C1-O5-C5	2.82	116.01	112.19
3	4	3	A1H1F	O1S6-S6-C6	2.82	110.23	105.74
3	FD	3	A1H1F	O2S6-S6-C6	2.82	110.29	106.94
2	wA	5	MAN	C1-C2-C3	2.82	113.13	109.67
3	yA	3	A1H1F	O1S6-S6-C6	2.81	110.22	105.74
2	bA	5	MAN	C1-C2-C3	2.81	113.12	109.67
2	xB	5	MAN	C1-C2-C3	2.81	113.12	109.67
3	q	3	A1H1F	O1S6-S6-C6	2.81	110.22	105.74
2	CD	5	MAN	C1-C2-C3	2.81	113.12	109.67
3	WA	3	A1H1F	O1S6-S6-C6	2.81	110.21	105.74
3	eB	3	A1H1F	O1S6-S6-C6	2.80	110.21	105.74
2	yC	5	MAN	C1-C2-C3	2.80	113.11	109.67
2	IC	5	MAN	C1-C2-C3	2.80	113.11	109.67
2	v	5	MAN	C1-C2-C3	2.79	113.10	109.67
2	WC	5	MAN	C1-C2-C3	2.79	113.10	109.67
2	BC	5	MAN	C1-C2-C3	2.79	113.10	109.67
4	oA	3	A1H1F	C1-C2-C3	2.79	113.10	109.67
2	qB	5	MAN	C1-C2-C3	2.79	113.09	109.67
4	u	3	A1H1F	C1-C2-C3	2.79	113.09	109.67
2	AB	5	MAN	C1-C2-C3	2.78	113.09	109.67
2	jB	5	MAN	C1-C2-C3	2.78	113.09	109.67
4	aA	3	A1H1F	C1-C2-C3	2.78	113.09	109.67
2	rC	5	MAN	C1-C2-C3	2.78	113.09	109.67
2	NA	5	MAN	C1-C2-C3	2.78	113.09	109.67
4	OC	3	A1H1F	C1-C2-C3	2.78	113.09	109.67
2	h	5	MAN	C1-C2-C3	2.78	113.08	109.67
4	qC	3	A1H1F	C1-C2-C3	2.78	113.08	109.67
4	VC	3	A1H1F	O3S6-S6-C6	2.78	110.24	106.94
2	9	5	MAN	C1-C2-C3	2.78	113.08	109.67
2	iA	5	MAN	C1-C2-C3	2.78	113.08	109.67
4	2A	3	A1H1F	C1-C2-C3	2.78	113.08	109.67
2	kC	5	MAN	C1-C2-C3	2.77	113.08	109.67
2	VB	5	MAN	C1-C2-C3	2.77	113.08	109.67
4	VC	3	A1H1F	C1-C2-C3	2.77	113.07	109.67
2	2	5	MAN	C1-C2-C3	2.77	113.07	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	dC	5	MAN	C1-C2-C3	2.77	113.07	109.67
4	AC	3	A1H1F	C1-C2-C3	2.77	113.07	109.67
2	3A	5	MAN	C1-C2-C3	2.77	113.07	109.67
4	vA	3	A1H1F	C1-C2-C3	2.77	113.07	109.67
2	UA	5	MAN	C1-C2-C3	2.77	113.07	109.67
2	4B	5	MAN	C1-C2-C3	2.77	113.07	109.67
4	u	3	A1H1F	O3S6-S6-C6	2.77	110.23	106.94
2	o	5	MAN	C1-C2-C3	2.77	113.06	109.67
2	pA	5	MAN	C1-C2-C3	2.77	113.06	109.67
4	8	3	A1H1F	C1-C2-C3	2.77	113.06	109.67
4	FA	3	A1H1F	C1-C2-C3	2.77	113.06	109.67
4	9A	3	A1H1F	C1-C2-C3	2.77	113.06	109.67
4	bB	3	A1H1F	O3S6-S6-C6	2.76	110.22	106.94
2	cB	5	MAN	C1-C2-C3	2.76	113.06	109.67
4	jC	3	A1H1F	C1-C2-C3	2.76	113.06	109.67
4	4C	3	A1H1F	C1-C2-C3	2.76	113.06	109.67
4	pB	3	A1H1F	O3S6-S6-C6	2.76	110.22	106.94
2	5C	5	MAN	C1-C2-C3	2.76	113.06	109.67
2	PC	5	MAN	C1-C2-C3	2.76	113.06	109.67
2	GA	5	MAN	C1-C2-C3	2.76	113.06	109.67
4	1	3	A1H1F	O3S6-S6-C6	2.76	110.22	106.94
4	iB	3	A1H1F	C1-C2-C3	2.76	113.06	109.67
4	MA	3	A1H1F	C1-C2-C3	2.76	113.06	109.67
4	UB	3	A1H1F	O3S6-S6-C6	2.76	110.22	106.94
2	3A	1	GAL	C1-C2-C3	2.76	113.06	109.67
2	HB	5	MAN	C1-C2-C3	2.76	113.06	109.67
4	ID	3	A1H1F	C1-C2-C3	2.76	113.06	109.67
4	hA	3	A1H1F	O3S6-S6-C6	2.76	110.21	106.94
4	GB	3	A1H1F	O3S6-S6-C6	2.76	110.21	106.94
4	3B	3	A1H1F	C1-C2-C3	2.76	113.05	109.67
4	n	3	A1H1F	C1-C2-C3	2.75	113.05	109.67
4	cC	3	A1H1F	C1-C2-C3	2.75	113.05	109.67
4	NB	3	A1H1F	C1-C2-C3	2.75	113.05	109.67
4	9A	3	A1H1F	O3S6-S6-C6	2.75	110.21	106.94
2	2	1	GAL	C1-C2-C3	2.75	113.05	109.67
4	pB	3	A1H1F	C1-C2-C3	2.75	113.05	109.67
4	NB	3	A1H1F	O3S6-S6-C6	2.75	110.21	106.94
4	jC	3	A1H1F	O3S6-S6-C6	2.75	110.21	106.94
4	BD	3	A1H1F	C1-C2-C3	2.75	113.04	109.67
4	TA	3	A1H1F	O3S6-S6-C6	2.75	110.20	106.94
4	ID	3	A1H1F	O3S6-S6-C6	2.75	110.20	106.94
2	OB	5	MAN	C1-C2-C3	2.75	113.04	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	TA	3	A1H1F	C1-C2-C3	2.74	113.04	109.67
4	UB	3	A1H1F	C1-C2-C3	2.74	113.04	109.67
4	4C	3	A1H1F	O3S6-S6-C6	2.74	110.20	106.94
4	bB	3	A1H1F	C1-C2-C3	2.74	113.03	109.67
4	wB	3	A1H1F	O3S6-S6-C6	2.74	110.20	106.94
4	2A	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	GB	3	A1H1F	C1-C2-C3	2.74	113.03	109.67
4	n	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	aA	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	AC	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	cC	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	1	3	A1H1F	C1-C2-C3	2.74	113.03	109.67
4	xC	3	A1H1F	O3S6-S6-C6	2.74	110.19	106.94
4	hA	3	A1H1F	C1-C2-C3	2.74	113.03	109.67
4	OC	3	A1H1F	O3S6-S6-C6	2.73	110.19	106.94
2	WC	1	GAL	C1-C2-C3	2.73	113.03	109.67
2	dC	1	GAL	C1-C2-C3	2.73	113.03	109.67
4	HC	3	A1H1F	C1-C2-C3	2.73	113.02	109.67
4	MA	3	A1H1F	O3S6-S6-C6	2.73	110.18	106.94
2	GA	1	GAL	C1-C2-C3	2.73	113.02	109.67
2	BC	1	GAL	C1-C2-C3	2.73	113.02	109.67
4	8	3	A1H1F	O3S6-S6-C6	2.73	110.18	106.94
4	3B	3	A1H1F	O3S6-S6-C6	2.73	110.18	106.94
4	FA	3	A1H1F	O3S6-S6-C6	2.73	110.18	106.94
4	xC	3	A1H1F	C1-C2-C3	2.73	113.02	109.67
2	4B	1	GAL	C1-C2-C3	2.73	113.02	109.67
2	PC	1	GAL	C1-C2-C3	2.73	113.02	109.67
4	BD	3	A1H1F	O3S6-S6-C6	2.73	110.18	106.94
2	o	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	xB	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	HB	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	kC	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	h	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	UA	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	cB	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	pA	1	GAL	C1-C2-C3	2.72	113.01	109.67
2	wA	1	GAL	C1-C2-C3	2.72	113.01	109.67
4	wB	3	A1H1F	C1-C2-C3	2.72	113.01	109.67
4	iB	3	A1H1F	O3S6-S6-C6	2.72	110.17	106.94
2	OB	1	GAL	C1-C2-C3	2.71	113.00	109.67
2	5C	1	GAL	C1-C2-C3	2.71	113.00	109.67
2	AB	1	GAL	C1-C2-C3	2.71	113.00	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	HC	3	A1H1F	O3S6-S6-C6	2.71	110.16	106.94
4	oA	3	A1H1F	O3S6-S6-C6	2.71	110.16	106.94
2	VB	1	GAL	C1-C2-C3	2.71	112.99	109.67
2	bA	1	GAL	C1-C2-C3	2.71	112.99	109.67
4	vA	3	A1H1F	O3S6-S6-C6	2.70	110.15	106.94
2	CD	1	GAL	C1-C2-C3	2.70	112.99	109.67
2	v	1	GAL	C1-C2-C3	2.70	112.99	109.67
2	iA	1	GAL	C1-C2-C3	2.70	112.99	109.67
2	qB	1	GAL	C1-C2-C3	2.70	112.99	109.67
2	jB	1	GAL	C1-C2-C3	2.70	112.98	109.67
3	dA	3	A1H1F	O2S6-S6-C6	2.70	110.15	106.94
2	IC	1	GAL	C1-C2-C3	2.70	112.98	109.67
2	NA	1	GAL	C1-C2-C3	2.70	112.98	109.67
2	yC	1	GAL	C1-C2-C3	2.70	112.98	109.67
2	rC	1	GAL	C1-C2-C3	2.69	112.98	109.67
4	qC	3	A1H1F	O3S6-S6-C6	2.69	110.14	106.94
3	mC	3	A1H1F	O2S6-S6-C6	2.69	110.14	106.94
3	JB	3	A1H1F	O2S6-S6-C6	2.69	110.14	106.94
2	9	1	GAL	C1-C2-C3	2.69	112.97	109.67
3	DC	3	A1H1F	O2S6-S6-C6	2.69	110.14	106.94
3	PA	3	A1H1F	O2S6-S6-C6	2.69	110.13	106.94
3	RC	3	A1H1F	O2S6-S6-C6	2.68	110.13	106.94
3	rA	3	A1H1F	O2S6-S6-C6	2.68	110.13	106.94
3	5A	3	A1H1F	O2S6-S6-C6	2.68	110.13	106.94
3	x	3	A1H1F	O2S6-S6-C6	2.68	110.12	106.94
3	WA	3	A1H1F	O2S6-S6-C6	2.68	110.12	106.94
3	IA	3	A1H1F	O2S6-S6-C6	2.67	110.12	106.94
3	kA	3	A1H1F	O2S6-S6-C6	2.67	110.12	106.94
3	yA	3	A1H1F	O2S6-S6-C6	2.67	110.12	106.94
3	tC	3	A1H1F	O2S6-S6-C6	2.67	110.12	106.94
3	fC	3	A1H1F	O2S6-S6-C6	2.67	110.11	106.94
3	4	3	A1H1F	O2S6-S6-C6	2.67	110.11	106.94
3	YC	3	A1H1F	O2S6-S6-C6	2.67	110.11	106.94
3	lB	3	A1H1F	O2S6-S6-C6	2.67	110.11	106.94
3	j	3	A1H1F	O2S6-S6-C6	2.67	110.11	106.94
3	sB	3	A1H1F	O2S6-S6-C6	2.66	110.11	106.94
3	KC	3	A1H1F	O2S6-S6-C6	2.66	110.10	106.94
3	0C	3	A1H1F	O2S6-S6-C6	2.66	110.10	106.94
3	QB	3	A1H1F	O2S6-S6-C6	2.66	110.10	106.94
3	zB	3	A1H1F	O2S6-S6-C6	2.66	110.10	106.94
3	ED	3	A1H1F	O2S6-S6-C6	2.66	110.10	106.94
3	BA	3	A1H1F	O2S6-S6-C6	2.65	110.09	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	CB	3	A1H1F	O2S6-S6-C6	2.65	110.09	106.94
3	6B	3	A1H1F	O2S6-S6-C6	2.65	110.09	106.94
3	7C	3	A1H1F	O2S6-S6-C6	2.65	110.09	106.94
3	XB	3	A1H1F	O2S6-S6-C6	2.64	110.08	106.94
3	q	3	A1H1F	O2S6-S6-C6	2.64	110.08	106.94
3	0C	4	A1H03	C1-O5-C5	2.64	115.81	111.48
3	rA	4	A1H03	C1-O5-C5	2.64	115.80	111.48
3	kA	4	A1H03	C1-O5-C5	2.64	115.80	111.48
3	eB	3	A1H1F	O2S6-S6-C6	2.64	110.07	106.94
3	7C	4	A1H03	C1-O5-C5	2.64	115.80	111.48
3	tC	4	A1H03	C1-O5-C5	2.63	115.79	111.48
3	IA	4	A1H03	C1-O5-C5	2.63	115.78	111.48
3	6B	4	A1H03	C1-O5-C5	2.63	115.78	111.48
3	RC	4	A1H03	C1-O5-C5	2.63	115.78	111.48
3	QB	4	A1H03	C1-O5-C5	2.62	115.78	111.48
3	zB	4	A1H03	C1-O5-C5	2.62	115.78	111.48
3	j	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	CB	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	YC	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	mC	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	sB	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	PA	4	A1H03	C1-O5-C5	2.62	115.77	111.48
3	ED	4	A1H03	C1-O5-C5	2.62	115.76	111.48
3	JB	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	fC	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	4	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	BA	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	dA	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	DC	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	KC	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	WA	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	yA	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	XB	4	A1H03	C1-O5-C5	2.61	115.76	111.48
3	eB	4	A1H03	C1-O5-C5	2.61	115.75	111.48
3	lB	4	A1H03	C1-O5-C5	2.61	115.75	111.48
3	x	1	GAL	C1-O5-C5	2.61	115.73	112.19
3	x	4	A1H03	C1-O5-C5	2.60	115.74	111.48
2	VB	2	BGC	C1-O5-C5	2.60	115.71	112.19
4	8B	3	A1H1F	O2S6-S6-C6	2.59	110.02	106.94
3	5A	4	A1H03	C1-O5-C5	2.59	115.72	111.48
3	fC	1	GAL	C1-O5-C5	2.59	115.69	112.19
4	uB	3	A1H1F	O2S6-S6-C6	2.58	110.01	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	q	4	A1H03	C1-O5-C5	2.58	115.71	111.48
3	CB	1	GAL	C1-O5-C5	2.58	115.69	112.19
2	kC	2	BGC	C1-O5-C5	2.58	115.68	112.19
3	KC	1	GAL	C1-O5-C5	2.58	115.68	112.19
3	ED	1	GAL	C1-O5-C5	2.58	115.68	112.19
4	DA	3	A1H1F	O2S6-S6-C6	2.57	110.00	106.94
3	JB	1	GAL	C1-O5-C5	2.57	115.68	112.19
4	ZB	3	A1H1F	O2S6-S6-C6	2.57	110.00	106.94
4	6	3	A1H1F	O2S6-S6-C6	2.57	110.00	106.94
4	TC	3	A1H1F	O2S6-S6-C6	2.57	110.00	106.94
3	IA	1	GAL	C1-O5-C5	2.57	115.68	112.19
2	UA	2	BGC	C1-O5-C5	2.57	115.67	112.19
3	yA	1	GAL	C1-O5-C5	2.57	115.67	112.19
3	sB	1	GAL	C1-O5-C5	2.57	115.67	112.19
3	5A	1	GAL	C1-O5-C5	2.57	115.67	112.19
2	qB	2	BGC	C1-O5-C5	2.57	115.67	112.19
3	RC	1	GAL	C1-O5-C5	2.57	115.67	112.19
4	MC	3	A1H1F	O2S6-S6-C6	2.57	109.99	106.94
2	cB	2	BGC	C1-O5-C5	2.57	115.67	112.19
2	jB	2	BGC	C1-O5-C5	2.57	115.67	112.19
2	dC	2	BGC	C1-O5-C5	2.57	115.67	112.19
3	kA	1	GAL	C1-O5-C5	2.56	115.67	112.19
3	tC	1	GAL	C1-O5-C5	2.56	115.67	112.19
2	rC	2	BGC	C1-O5-C5	2.56	115.66	112.19
3	BA	1	GAL	C1-O5-C5	2.56	115.66	112.19
3	mC	1	GAL	C1-O5-C5	2.56	115.66	112.19
4	vC	3	A1H1F	O2S6-S6-C6	2.56	109.98	106.94
3	PA	1	GAL	C1-O5-C5	2.56	115.66	112.19
4	7A	3	A1H1F	O2S6-S6-C6	2.56	109.98	106.94
2	iA	2	BGC	C1-O5-C5	2.56	115.66	112.19
2	4B	2	BGC	C1-O5-C5	2.56	115.66	112.19
3	j	1	GAL	C1-O5-C5	2.56	115.66	112.19
3	7C	1	GAL	C1-O5-C5	2.56	115.65	112.19
4	fA	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
2	v	2	BGC	C1-O5-C5	2.55	115.65	112.19
2	wA	2	BGC	C1-O5-C5	2.55	115.65	112.19
2	AB	2	BGC	C1-O5-C5	2.55	115.65	112.19
3	dA	1	GAL	C1-O5-C5	2.55	115.65	112.19
4	SB	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
2	bA	2	BGC	C1-O5-C5	2.55	115.65	112.19
4	l	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
4	9C	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	GD	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
2	BC	2	BGC	C1-O5-C5	2.55	115.65	112.19
3	0C	1	GAL	C1-O5-C5	2.55	115.65	112.19
4	2C	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
2	o	2	BGC	C1-O5-C5	2.55	115.65	112.19
3	6B	1	GAL	C1-O5-C5	2.55	115.65	112.19
4	mA	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
4	FC	3	A1H1F	O2S6-S6-C6	2.55	109.97	106.94
3	eB	1	GAL	C1-O5-C5	2.55	115.64	112.19
2	xB	2	BGC	C1-O5-C5	2.55	115.64	112.19
2	IC	2	BGC	C1-O5-C5	2.55	115.64	112.19
3	WA	1	GAL	C1-O5-C5	2.55	115.64	112.19
2	3A	2	BGC	C1-O5-C5	2.55	115.64	112.19
3	YC	1	GAL	C1-O5-C5	2.55	115.64	112.19
2	h	2	BGC	C1-O5-C5	2.54	115.64	112.19
2	2	2	BGC	C1-O5-C5	2.54	115.64	112.19
3	q	1	GAL	C1-O5-C5	2.54	115.64	112.19
3	QB	1	GAL	C1-O5-C5	2.54	115.64	112.19
4	YA	3	A1H1F	O5-C1-C2	2.54	114.70	110.77
2	CD	2	BGC	C1-O5-C5	2.54	115.64	112.19
3	zB	1	GAL	C1-O5-C5	2.54	115.64	112.19
4	1B	3	A1H1F	O2S6-S6-C6	2.54	109.96	106.94
4	hC	3	A1H1F	O5-C1-C2	2.54	114.69	110.77
2	yC	2	BGC	C1-O5-C5	2.54	115.64	112.19
3	4	1	GAL	C1-O5-C5	2.54	115.64	112.19
4	KA	3	A1H1F	O2S6-S6-C6	2.54	109.96	106.94
4	hC	3	A1H1F	O2S6-S6-C6	2.54	109.96	106.94
3	rA	1	GAL	C1-O5-C5	2.54	115.63	112.19
3	lB	1	GAL	C1-O5-C5	2.54	115.63	112.19
4	YA	3	A1H1F	O2S6-S6-C6	2.54	109.95	106.94
4	LB	3	A1H1F	O2S6-S6-C6	2.54	109.95	106.94
4	gB	3	A1H1F	O2S6-S6-C6	2.54	109.95	106.94
4	z	3	A1H1F	O2S6-S6-C6	2.54	109.95	106.94
4	tA	3	A1H1F	O2S6-S6-C6	2.54	109.95	106.94
2	5C	2	BGC	C1-O5-C5	2.53	115.63	112.19
2	pA	2	BGC	C1-O5-C5	2.53	115.62	112.19
4	RA	3	A1H1F	O2S6-S6-C6	2.53	109.95	106.94
4	nB	3	A1H1F	O2S6-S6-C6	2.53	109.95	106.94
2	OB	2	BGC	C1-O5-C5	2.53	115.62	112.19
4	LB	3	A1H1F	O5-C1-C2	2.53	114.67	110.77
4	EB	3	A1H1F	O2S6-S6-C6	2.53	109.94	106.94
3	DC	1	GAL	C1-O5-C5	2.53	115.61	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	x	1	GAL	O5-C5-C6	2.53	111.16	107.20
4	aC	3	A1H1F	O2S6-S6-C6	2.52	109.94	106.94
3	XB	1	GAL	C1-O5-C5	2.52	115.61	112.19
2	PC	2	BGC	C1-O5-C5	2.52	115.61	112.19
3	fC	1	GAL	O5-C5-C6	2.52	111.16	107.20
2	WC	2	BGC	C1-O5-C5	2.52	115.61	112.19
2	GA	2	BGC	C1-O5-C5	2.52	115.61	112.19
4	0A	3	A1H1F	O2S6-S6-C6	2.52	109.93	106.94
4	s	3	A1H1F	O5-C1-C2	2.52	114.66	110.77
4	s	3	A1H1F	O2S6-S6-C6	2.52	109.93	106.94
3	RC	1	GAL	O5-C5-C6	2.52	111.15	107.20
4	oC	3	A1H1F	O2S6-S6-C6	2.52	109.93	106.94
2	NA	2	BGC	C1-O5-C5	2.52	115.60	112.19
4	2C	3	A1H1F	O5-C1-C2	2.51	114.65	110.77
2	pA	2	BGC	C2-C3-C4	2.51	115.25	110.89
3	sB	1	GAL	O5-C5-C6	2.51	111.14	107.20
4	1B	3	A1H1F	O5-C1-C2	2.51	114.65	110.77
4	0A	3	A1H1F	O5-C1-C2	2.51	114.65	110.77
3	5A	1	GAL	O5-C5-C6	2.51	111.14	107.20
4	uB	3	A1H1F	O5-C1-C2	2.51	114.65	110.77
3	6B	1	GAL	O5-C5-C6	2.51	111.14	107.20
2	HB	2	BGC	C1-O5-C5	2.51	115.59	112.19
4	EB	3	A1H1F	O5-C1-C2	2.51	114.64	110.77
4	ZB	3	A1H1F	O5-C1-C2	2.51	114.64	110.77
3	JB	1	GAL	O5-C5-C6	2.51	111.14	107.20
4	FC	3	A1H1F	O5-C1-C2	2.51	114.64	110.77
4	GD	3	A1H1F	O5-C1-C2	2.51	114.64	110.77
3	0C	1	GAL	O5-C5-C6	2.51	111.13	107.20
4	RA	3	A1H1F	O5-C1-C2	2.51	114.64	110.77
2	AB	2	BGC	C2-C3-C4	2.51	115.23	110.89
2	yC	2	BGC	C2-C3-C4	2.51	115.23	110.89
3	PA	1	GAL	O5-C5-C6	2.50	111.13	107.20
3	ED	1	GAL	O5-C5-C6	2.50	111.13	107.20
2	9	2	BGC	C1-O5-C5	2.50	115.58	112.19
4	TC	3	A1H1F	O5-C1-C2	2.50	114.64	110.77
4	aC	3	A1H1F	O5-C1-C2	2.50	114.64	110.77
3	dA	1	GAL	O5-C5-C6	2.50	111.13	107.20
4	l	3	A1H1F	O5-C1-C2	2.50	114.63	110.77
3	yA	1	GAL	O5-C5-C6	2.50	111.12	107.20
2	4B	2	BGC	C2-C3-C4	2.50	115.22	110.89
3	WA	1	GAL	O5-C5-C6	2.50	111.12	107.20
3	QB	1	GAL	O5-C5-C6	2.50	111.12	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	CB	1	GAL	O5-C5-C6	2.50	111.12	107.20
2	IC	2	BGC	C2-C3-C4	2.50	115.22	110.89
4	MC	3	A1H1F	O5-C1-C2	2.50	114.63	110.77
4	vC	3	A1H1F	O5-C1-C2	2.50	114.63	110.77
3	IA	1	GAL	O5-C5-C6	2.50	111.12	107.20
3	BA	1	GAL	O5-C5-C6	2.50	111.12	107.20
3	KC	1	GAL	O5-C5-C6	2.50	111.12	107.20
2	HB	2	BGC	C2-C3-C4	2.50	115.22	110.89
3	lB	1	GAL	O5-C5-C6	2.49	111.11	107.20
4	z	3	A1H1F	O5-C1-C2	2.49	114.62	110.77
4	SB	3	A1H1F	O5-C1-C2	2.49	114.62	110.77
3	zB	1	GAL	O5-C5-C6	2.49	111.11	107.20
2	UA	2	BGC	C2-C3-C4	2.49	115.21	110.89
3	j	1	GAL	O5-C5-C6	2.49	111.11	107.20
2	5C	2	BGC	C2-C3-C4	2.49	115.21	110.89
4	7A	3	A1H1F	O5-C1-C2	2.49	114.62	110.77
3	4	1	GAL	O5-C5-C6	2.49	111.11	107.20
2	bA	2	BGC	C2-C3-C4	2.49	115.21	110.89
3	kA	1	GAL	O5-C5-C6	2.49	111.11	107.20
4	mA	3	A1H1F	O5-C1-C2	2.49	114.61	110.77
4	8B	3	A1H1F	O5-C1-C2	2.49	114.61	110.77
2	cB	1	GAL	O5-C5-C6	2.49	111.11	107.20
4	fA	3	A1H1F	O5-C1-C2	2.49	114.61	110.77
4	gB	3	A1H1F	O5-C1-C2	2.49	114.61	110.77
3	XB	1	GAL	O5-C5-C6	2.49	111.11	107.20
3	tC	1	GAL	O5-C5-C6	2.49	111.11	107.20
2	wA	2	BGC	C2-C3-C4	2.49	115.20	110.89
4	nB	3	A1H1F	O5-C1-C2	2.49	114.61	110.77
2	qB	2	BGC	C2-C3-C4	2.49	115.20	110.89
2	BC	2	BGC	C2-C3-C4	2.49	115.20	110.89
3	q	1	GAL	O5-C5-C6	2.49	111.10	107.20
2	NA	2	BGC	C2-C3-C4	2.49	115.20	110.89
2	jB	2	BGC	C2-C3-C4	2.49	115.20	110.89
2	9	2	BGC	C2-C3-C4	2.49	115.20	110.89
3	YC	1	GAL	O5-C5-C6	2.49	111.10	107.20
2	iA	2	BGC	C2-C3-C4	2.48	115.19	110.89
4	DA	3	A1H1F	O5-C1-C2	2.48	114.61	110.77
3	rA	1	GAL	O5-C5-C6	2.48	111.10	107.20
4	9C	3	A1H1F	O5-C1-C2	2.48	114.60	110.77
2	PC	2	BGC	C2-C3-C4	2.48	115.19	110.89
3	DC	1	GAL	O5-C5-C6	2.48	111.10	107.20
3	mC	1	GAL	O5-C5-C6	2.48	111.10	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	3A	2	BGC	C2-C3-C4	2.48	115.19	110.89
2	OB	2	BGC	C2-C3-C4	2.48	115.19	110.89
2	CD	1	GAL	O5-C5-C6	2.48	111.09	107.20
4	qC	2	BGC	C1-O5-C5	2.48	115.55	112.19
4	oC	3	A1H1F	O5-C1-C2	2.48	114.60	110.77
2	2	2	BGC	C2-C3-C4	2.48	115.19	110.89
2	h	2	BGC	C2-C3-C4	2.48	115.19	110.89
2	bA	1	GAL	O5-C5-C6	2.48	111.09	107.20
2	9	1	GAL	O5-C5-C6	2.48	111.09	107.20
2	dC	2	BGC	C2-C3-C4	2.48	115.18	110.89
4	jC	2	BGC	C1-O5-C5	2.48	115.55	112.19
4	6	3	A1H1F	O5-C1-C2	2.48	114.59	110.77
2	v	2	BGC	C2-C3-C4	2.48	115.18	110.89
2	rC	2	BGC	C2-C3-C4	2.48	115.18	110.89
4	GB	2	BGC	C1-O5-C5	2.48	115.55	112.19
2	kC	2	BGC	C2-C3-C4	2.47	115.18	110.89
2	v	1	GAL	O5-C5-C6	2.47	111.08	107.20
2	yC	1	GAL	O5-C5-C6	2.47	111.08	107.20
4	KA	3	A1H1F	O5-C1-C2	2.47	114.59	110.77
2	cB	2	BGC	C2-C3-C4	2.47	115.17	110.89
2	wA	1	GAL	O5-C5-C6	2.47	111.08	107.20
2	5C	1	GAL	O5-C5-C6	2.47	111.08	107.20
2	GA	2	BGC	C2-C3-C4	2.47	115.17	110.89
4	tA	3	A1H1F	O5-C1-C2	2.47	114.59	110.77
2	3A	1	GAL	O5-C5-C6	2.47	111.08	107.20
4	wB	2	BGC	C1-O5-C5	2.47	115.54	112.19
2	2	1	GAL	O5-C5-C6	2.47	111.08	107.20
2	iA	1	GAL	O5-C5-C6	2.47	111.08	107.20
4	6	1	GAL	C1-O5-C5	2.47	115.54	112.19
2	GA	5	MAN	O5-C5-C6	2.47	111.08	107.20
2	o	2	BGC	C2-C3-C4	2.47	115.17	110.89
2	WC	2	BGC	C2-C3-C4	2.47	115.17	110.89
2	rC	1	GAL	O5-C5-C6	2.47	111.08	107.20
4	2A	2	BGC	C1-O5-C5	2.47	115.54	112.19
2	CD	2	BGC	C2-C3-C4	2.47	115.17	110.89
2	kC	1	GAL	O5-C5-C6	2.47	111.07	107.20
2	BC	1	GAL	O5-C5-C6	2.47	111.07	107.20
4	mA	1	GAL	C1-O5-C5	2.47	115.53	112.19
4	gB	1	GAL	C1-O5-C5	2.47	115.53	112.19
2	VB	2	BGC	C2-C3-C4	2.47	115.16	110.89
3	7C	1	GAL	O5-C5-C6	2.46	111.07	107.20
4	FA	2	BGC	C1-O5-C5	2.46	115.53	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	tB	2	BGC	C3-C4-C5	2.46	114.64	110.24
2	OB	1	GAL	O5-C5-C6	2.46	111.07	107.20
2	qB	1	GAL	O5-C5-C6	2.46	111.07	107.20
2	xB	1	GAL	O5-C5-C6	2.46	111.07	107.20
2	NA	5	MAN	O5-C5-C6	2.46	111.06	107.20
4	VC	2	BGC	C1-O5-C5	2.46	115.53	112.19
4	9C	1	GAL	C1-O5-C5	2.46	115.53	112.19
2	xB	2	BGC	C2-C3-C4	2.46	115.15	110.89
3	eB	1	GAL	O5-C5-C6	2.46	111.06	107.20
4	8B	1	GAL	C1-O5-C5	2.46	115.53	112.19
4	OC	2	BGC	C1-O5-C5	2.46	115.53	112.19
4	YA	1	GAL	C1-O5-C5	2.46	115.52	112.19
2	h	1	GAL	O5-C5-C6	2.46	111.06	107.20
3	nC	2	BGC	C3-C4-C5	2.46	114.62	110.24
4	s	1	GAL	C1-O5-C5	2.46	115.52	112.19
4	8	2	BGC	C1-O5-C5	2.46	115.52	112.19
2	o	1	GAL	O5-C5-C6	2.46	111.06	107.20
2	AB	1	GAL	O5-C5-C6	2.46	111.06	107.20
4	ID	2	BGC	C1-O5-C5	2.46	115.52	112.19
2	o	5	MAN	O5-C5-C6	2.46	111.05	107.20
4	RA	1	GAL	C1-O5-C5	2.46	115.52	112.19
4	UB	2	BGC	C1-O5-C5	2.46	115.52	112.19
4	u	2	BGC	C1-O5-C5	2.45	115.52	112.19
4	bB	2	BGC	C1-O5-C5	2.45	115.52	112.19
3	uC	2	BGC	C3-C4-C5	2.45	114.62	110.24
2	NA	1	GAL	O5-C5-C6	2.45	111.05	107.20
4	LB	1	GAL	O5-C5-C6	2.45	111.05	107.20
4	gB	1	GAL	O5-C5-C6	2.45	111.05	107.20
4	iB	2	BGC	C1-O5-C5	2.45	115.52	112.19
2	IC	1	GAL	O5-C5-C6	2.45	111.05	107.20
4	LB	1	GAL	C1-O5-C5	2.45	115.51	112.19
2	xB	5	MAN	O5-C5-C6	2.45	111.05	107.20
2	4B	1	GAL	O5-C5-C6	2.45	111.04	107.20
4	FC	1	GAL	C1-O5-C5	2.45	115.51	112.19
2	GA	1	GAL	O5-C5-C6	2.45	111.04	107.20
4	6	1	GAL	O5-C5-C6	2.45	111.04	107.20
4	hC	1	GAL	C1-O5-C5	2.45	115.51	112.19
3	IA	3	A1H1F	O5-C1-C2	2.45	114.55	110.77
2	VB	1	GAL	O5-C5-C6	2.45	111.04	107.20
2	AB	5	MAN	O5-C5-C6	2.45	111.04	107.20
2	BC	5	MAN	O5-C5-C6	2.45	111.04	107.20
4	mA	1	GAL	O5-C5-C6	2.45	111.04	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	n	2	BGC	C1-O5-C5	2.45	115.51	112.19
4	DA	1	GAL	C1-O5-C5	2.45	115.51	112.19
4	ZB	1	GAL	C1-O5-C5	2.45	115.51	112.19
4	xC	2	BGC	C1-O5-C5	2.45	115.51	112.19
4	YA	1	GAL	O5-C5-C6	2.45	111.04	107.20
4	SB	1	GAL	O5-C5-C6	2.45	111.04	107.20
3	0B	2	BGC	C3-C4-C5	2.45	114.60	110.24
2	UA	1	GAL	O5-C5-C6	2.45	111.04	107.20
3	uA	2	BGC	C2-C3-C4	2.45	115.13	110.89
3	zA	2	BGC	C3-C4-C5	2.45	114.60	110.24
2	IC	5	MAN	O5-C5-C6	2.45	111.04	107.20
3	YC	3	A1H1F	O5-C1-C2	2.44	114.55	110.77
3	eA	2	BGC	C3-C4-C5	2.44	114.60	110.24
2	cB	5	MAN	O5-C5-C6	2.44	111.04	107.20
2	bA	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	3A	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	4B	5	MAN	O5-C5-C6	2.44	111.03	107.20
4	hA	2	BGC	C1-O5-C5	2.44	115.50	112.19
4	pB	2	BGC	C1-O5-C5	2.44	115.50	112.19
4	3B	2	BGC	C1-O5-C5	2.44	115.50	112.19
2	qB	5	MAN	O5-C5-C6	2.44	111.03	107.20
3	KB	2	BGC	C3-C4-C5	2.44	114.60	110.24
4	TA	2	BGC	C1-O5-C5	2.44	115.50	112.19
4	aA	2	BGC	C1-O5-C5	2.44	115.50	112.19
4	GD	1	GAL	O5-C5-C6	2.44	111.03	107.20
3	QA	2	BGC	C3-C4-C5	2.44	114.59	110.24
2	v	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	2	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	HB	1	GAL	O5-C5-C6	2.44	111.03	107.20
2	HB	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	PC	1	GAL	O5-C5-C6	2.44	111.03	107.20
3	t	2	BGC	C2-C3-C4	2.44	115.12	110.89
4	1	2	BGC	C1-O5-C5	2.44	115.50	112.19
2	OB	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	PC	5	MAN	O5-C5-C6	2.44	111.03	107.20
3	UC	2	BGC	C2-C3-C4	2.44	115.12	110.89
4	SB	1	GAL	C1-O5-C5	2.44	115.50	112.19
4	ZB	1	GAL	O5-C5-C6	2.44	111.03	107.20
4	vC	1	GAL	C1-O5-C5	2.44	115.50	112.19
2	pA	1	GAL	O5-C5-C6	2.44	111.03	107.20
2	jB	1	GAL	O5-C5-C6	2.44	111.03	107.20
2	dC	5	MAN	O5-C5-C6	2.44	111.03	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8B	1	GAL	O5-C5-C6	2.44	111.03	107.20
3	DB	2	BGC	C3-C4-C5	2.44	114.59	110.24
3	YB	2	BGC	C3-C4-C5	2.44	114.59	110.24
3	7B	2	BGC	C3-C4-C5	2.44	114.59	110.24
3	CB	3	A1H1F	O5-C1-C2	2.44	114.54	110.77
3	5	2	BGC	C3-C4-C5	2.44	114.59	110.24
2	dC	1	GAL	O5-C5-C6	2.44	111.03	107.20
2	CD	5	MAN	O5-C5-C6	2.44	111.03	107.20
2	h	5	MAN	O5-C5-C6	2.44	111.03	107.20
4	s	1	GAL	O5-C5-C6	2.44	111.03	107.20
3	BA	3	A1H1F	O5-C1-C2	2.44	114.53	110.77
3	JA	2	BGC	C3-C4-C5	2.44	114.59	110.24
2	9	5	MAN	O5-C5-C6	2.44	111.02	107.20
4	1B	1	GAL	C1-O5-C5	2.44	115.49	112.19
3	7C	3	A1H1F	O5-C1-C2	2.44	114.53	110.77
3	ED	3	A1H1F	O5-C1-C2	2.44	114.53	110.77
4	BD	2	BGC	C1-O5-C5	2.44	115.49	112.19
2	WC	1	GAL	O5-C5-C6	2.44	111.02	107.20
4	MA	2	BGC	C1-O5-C5	2.43	115.49	112.19
3	NC	2	BGC	C2-C3-C4	2.43	115.11	110.89
3	LC	2	BGC	C3-C4-C5	2.43	114.58	110.24
3	9B	2	BGC	C2-C3-C4	2.43	115.11	110.89
3	kA	3	A1H1F	O5-C1-C2	2.43	114.53	110.77
3	XB	3	A1H1F	O5-C1-C2	2.43	114.53	110.77
3	r	2	BGC	C3-C4-C5	2.43	114.58	110.24
3	fB	2	BGC	C3-C4-C5	2.43	114.58	110.24
2	pA	5	MAN	O5-C5-C6	2.43	111.02	107.20
4	l	1	GAL	C1-O5-C5	2.43	115.49	112.19
4	z	1	GAL	C1-O5-C5	2.43	115.49	112.19
3	mC	3	A1H1F	O5-C1-C2	2.43	114.53	110.77
4	oA	2	BGC	C1-O5-C5	2.43	115.49	112.19
4	aC	1	GAL	C1-O5-C5	2.43	115.49	112.19
3	HD	2	BGC	C2-C3-C4	2.43	115.10	110.89
4	tA	1	GAL	C1-O5-C5	2.43	115.49	112.19
2	wA	5	MAN	O5-C5-C6	2.43	111.02	107.20
4	hC	1	GAL	O5-C5-C6	2.43	111.02	107.20
3	fC	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
3	tC	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
4	GD	1	GAL	C1-O5-C5	2.43	115.49	112.19
3	bC	2	BGC	C2-C3-C4	2.43	115.10	110.89
2	yC	5	MAN	O5-C5-C6	2.43	111.02	107.20
4	vA	2	BGC	C1-O5-C5	2.43	115.48	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	4	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
4	AC	2	BGC	C1-O5-C5	2.43	115.48	112.19
3	ZC	2	BGC	C3-C4-C5	2.43	114.57	110.24
4	RA	1	GAL	O5-C5-C6	2.43	111.01	107.20
4	nB	1	GAL	C1-O5-C5	2.43	115.48	112.19
3	k	2	BGC	C3-C4-C5	2.43	114.57	110.24
4	HC	2	BGC	C1-O5-C5	2.43	115.48	112.19
4	DA	1	GAL	O5-C5-C6	2.43	111.01	107.20
4	FC	1	GAL	O5-C5-C6	2.43	111.01	107.20
3	yA	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
4	7A	1	GAL	C1-O5-C5	2.43	115.48	112.19
4	cC	2	BGC	C1-O5-C5	2.43	115.48	112.19
3	iC	2	BGC	C2-C3-C4	2.43	115.09	110.89
3	lA	2	BGC	C3-C4-C5	2.43	114.57	110.24
3	6A	2	BGC	C3-C4-C5	2.43	114.57	110.24
2	UA	5	MAN	O5-C5-C6	2.43	111.01	107.20
2	jB	5	MAN	O5-C5-C6	2.43	111.01	107.20
3	j	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
3	rA	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
3	DC	3	A1H1F	O5-C1-C2	2.43	114.52	110.77
3	aB	2	BGC	C2-C3-C4	2.43	115.09	110.89
3	3C	2	BGC	C2-C3-C4	2.43	115.09	110.89
4	0A	1	GAL	C1-O5-C5	2.43	115.48	112.19
4	9C	1	GAL	O5-C5-C6	2.43	111.01	107.20
3	mB	2	BGC	C3-C4-C5	2.43	114.56	110.24
3	8A	2	BGC	C2-C3-C4	2.42	115.09	110.89
3	8C	2	BGC	C3-C4-C5	2.42	114.56	110.24
4	l	1	GAL	O5-C5-C6	2.42	111.00	107.20
4	vC	1	GAL	O5-C5-C6	2.42	111.00	107.20
4	EB	1	GAL	C1-O5-C5	2.42	115.48	112.19
4	2C	1	GAL	C1-O5-C5	2.42	115.48	112.19
3	m	2	BGC	C2-C3-C4	2.42	115.09	110.89
3	LA	2	BGC	C2-C3-C4	2.42	115.09	110.89
3	dA	3	A1H1F	O5-C1-C2	2.42	114.51	110.77
3	RB	2	BGC	C3-C4-C5	2.42	114.56	110.24
3	EC	2	BGC	C3-C4-C5	2.42	114.56	110.24
3	FD	2	BGC	C3-C4-C5	2.42	114.56	110.24
3	sA	2	BGC	C3-C4-C5	2.42	114.56	110.24
3	SC	2	BGC	C3-C4-C5	2.42	114.56	110.24
2	rC	5	MAN	O5-C5-C6	2.42	111.00	107.20
2	xB	6	A1H03	C1-O5-C5	2.42	115.45	111.48
3	vB	2	BGC	C2-C3-C4	2.42	115.09	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	4C	2	BGC	C1-O5-C5	2.42	115.47	112.19
3	JB	3	A1H1F	O5-C1-C2	2.42	114.51	110.77
3	0C	3	A1H1F	O5-C1-C2	2.42	114.51	110.77
3	TB	2	BGC	C2-C3-C4	2.42	115.09	110.89
3	1C	2	BGC	C3-C4-C5	2.42	114.56	110.24
4	oC	1	GAL	C1-O5-C5	2.42	115.47	112.19
3	PA	3	A1H1F	O5-C1-C2	2.42	114.51	110.77
2	WC	5	MAN	O5-C5-C6	2.42	111.00	107.20
4	EB	1	GAL	O5-C5-C6	2.42	111.00	107.20
3	GC	2	BGC	C2-C3-C4	2.42	115.08	110.89
3	XA	2	BGC	C3-C4-C5	2.42	114.56	110.24
2	5C	5	MAN	O5-C5-C6	2.42	111.00	107.20
3	SA	2	BGC	C2-C3-C4	2.42	115.08	110.89
3	gC	2	BGC	C3-C4-C5	2.42	114.55	110.24
3	MB	2	BGC	C2-C3-C4	2.42	115.08	110.89
2	NA	6	A1H03	C1-O5-C5	2.42	115.44	111.48
3	1A	2	BGC	C2-C3-C4	2.42	115.08	110.89
3	RC	3	A1H1F	O5-C1-C2	2.42	114.50	110.77
4	7A	1	GAL	O5-C5-C6	2.42	110.99	107.20
4	nB	1	GAL	O5-C5-C6	2.42	110.99	107.20
3	EA	2	BGC	C2-C3-C4	2.42	115.08	110.89
2	UA	6	A1H03	C1-O5-C5	2.42	115.44	111.48
4	fA	1	GAL	C1-O5-C5	2.42	115.47	112.19
4	TC	1	GAL	C1-O5-C5	2.42	115.47	112.19
4	TC	1	GAL	O5-C5-C6	2.42	110.99	107.20
4	tA	1	GAL	O5-C5-C6	2.42	110.99	107.20
4	oC	1	GAL	O5-C5-C6	2.42	110.99	107.20
4	9A	2	BGC	C1-O5-C5	2.41	115.46	112.19
3	QB	3	A1H1F	O5-C1-C2	2.41	114.50	110.77
2	iA	5	MAN	O5-C5-C6	2.41	110.99	107.20
3	sB	3	A1H1F	O5-C1-C2	2.41	114.50	110.77
4	MC	1	GAL	O5-C5-C6	2.41	110.99	107.20
4	2C	1	GAL	O5-C5-C6	2.41	110.99	107.20
3	y	2	BGC	C3-C4-C5	2.41	114.54	110.24
4	1B	1	GAL	O5-C5-C6	2.41	110.99	107.20
3	0	2	BGC	C2-C3-C4	2.41	115.07	110.89
3	nA	2	BGC	C2-C3-C4	2.41	115.07	110.89
3	5A	3	A1H1F	O5-C1-C2	2.41	114.49	110.77
2	VB	5	MAN	O5-C5-C6	2.41	110.98	107.20
4	0A	1	GAL	O5-C5-C6	2.41	110.98	107.20
3	eB	3	A1H1F	O5-C1-C2	2.41	114.49	110.77
3	lB	3	A1H1F	O5-C1-C2	2.41	114.49	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	4B	6	A1H03	C1-O5-C5	2.41	115.42	111.48
2	HB	6	A1H03	C1-O5-C5	2.41	115.42	111.48
3	CA	2	BGC	C3-C4-C5	2.41	114.53	110.24
3	x	3	A1H1F	O5-C1-C2	2.41	114.49	110.77
2	kC	5	MAN	O5-C5-C6	2.41	110.98	107.20
2	3A	6	A1H03	C1-O5-C5	2.41	115.42	111.48
3	oB	2	BGC	C2-C3-C4	2.41	115.06	110.89
3	pC	2	BGC	C2-C3-C4	2.41	115.06	110.89
3	6B	3	A1H1F	O5-C1-C2	2.41	114.49	110.77
2	rC	6	A1H03	C1-O5-C5	2.41	115.42	111.48
3	AD	2	BGC	C2-C3-C4	2.41	115.06	110.89
2	dC	6	A1H03	O2-C2-C1	2.41	114.08	109.15
4	aC	1	GAL	O5-C5-C6	2.41	110.98	107.20
4	z	1	GAL	O5-C5-C6	2.41	110.97	107.20
3	wC	2	BGC	C2-C3-C4	2.40	115.06	110.89
2	GA	6	A1H03	C1-O5-C5	2.40	115.42	111.48
3	gA	2	BGC	C2-C3-C4	2.40	115.06	110.89
2	PC	6	A1H03	C1-O5-C5	2.40	115.42	111.48
3	KC	3	A1H1F	O5-C1-C2	2.40	114.48	110.77
2	kC	6	A1H03	O2-C2-C1	2.40	114.07	109.15
2	OB	6	A1H03	C1-O5-C5	2.40	115.42	111.48
2	WC	6	A1H03	O2-C2-C1	2.40	114.07	109.15
4	NB	2	BGC	C1-O5-C5	2.40	115.45	112.19
3	ZA	2	BGC	C2-C3-C4	2.40	115.05	110.89
2	WC	6	A1H03	C1-O5-C5	2.40	115.41	111.48
4	fA	1	GAL	O5-C5-C6	2.40	110.97	107.20
2	AB	6	A1H03	C1-O5-C5	2.40	115.41	111.48
4	uB	1	GAL	O5-C5-C6	2.40	110.97	107.20
3	zB	3	A1H1F	O5-C1-C2	2.40	114.48	110.77
4	MC	1	GAL	C1-O5-C5	2.40	115.44	112.19
3	hB	2	BGC	C2-C3-C4	2.40	115.05	110.89
3	2B	2	BGC	C2-C3-C4	2.40	115.05	110.89
2	GA	6	A1H03	O2-C2-C1	2.40	114.06	109.15
4	KA	1	GAL	C1-O5-C5	2.40	115.44	112.19
3	7	2	BGC	C2-C3-C4	2.40	115.05	110.89
3	FB	2	BGC	C2-C3-C4	2.40	115.05	110.89
4	KA	1	GAL	O5-C5-C6	2.40	110.97	107.20
2	AB	6	A1H03	O2-C2-C1	2.40	114.06	109.15
4	uB	1	GAL	C1-O5-C5	2.40	115.44	112.19
2	pA	6	A1H03	C1-O5-C5	2.40	115.41	111.48
2	IC	6	A1H03	O2-C2-C1	2.40	114.05	109.15
2	CD	6	A1H03	O2-C2-C1	2.40	114.05	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	cB	6	A1H03	C1-O5-C5	2.40	115.40	111.48
2	CD	6	A1H03	C1-O5-C5	2.40	115.40	111.48
2	VB	6	A1H03	O2-C2-C1	2.40	114.05	109.15
2	2	6	A1H03	C1-O5-C5	2.39	115.40	111.48
4	7A	2	BGC	C1-O5-C5	2.39	115.44	112.19
4	9C	2	BGC	C1-O5-C5	2.39	115.44	112.19
3	WA	3	A1H1F	O5-C1-C2	2.39	114.47	110.77
3	q	3	A1H1F	O5-C1-C2	2.39	114.47	110.77
2	bA	6	A1H03	O2-C2-C1	2.39	114.05	109.15
2	h	6	A1H03	C1-O5-C5	2.39	115.40	111.48
2	9	6	A1H03	C1-O5-C5	2.39	115.40	111.48
2	UA	6	A1H03	O2-C2-C1	2.39	114.05	109.15
2	yC	6	A1H03	O2-C2-C1	2.39	114.05	109.15
2	3A	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	5C	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	2	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	iA	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	HB	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	qB	6	A1H03	C1-O5-C5	2.39	115.39	111.48
2	IC	6	A1H03	C1-O5-C5	2.39	115.39	111.48
2	qB	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	BC	6	A1H03	O2-C2-C1	2.39	114.04	109.15
2	BC	6	A1H03	C1-O5-C5	2.39	115.39	111.48
2	h	6	A1H03	O2-C2-C1	2.39	114.03	109.15
2	5C	6	A1H03	C1-O5-C5	2.38	115.39	111.48
2	wA	6	A1H03	O2-C2-C1	2.38	114.03	109.15
2	OB	6	A1H03	O2-C2-C1	2.38	114.03	109.15
2	rC	6	A1H03	O2-C2-C1	2.38	114.03	109.15
2	cB	6	A1H03	O2-C2-C1	2.38	114.03	109.15
2	o	6	A1H03	C1-O5-C5	2.38	115.38	111.48
2	wA	6	A1H03	C1-O5-C5	2.38	115.38	111.48
2	bA	6	A1H03	C1-O5-C5	2.38	115.38	111.48
4	nB	2	BGC	C1-O5-C5	2.38	115.42	112.19
2	dC	6	A1H03	C1-O5-C5	2.38	115.38	111.48
2	o	6	A1H03	O2-C2-C1	2.38	114.03	109.15
4	ZB	2	BGC	C1-O5-C5	2.38	115.42	112.19
2	4B	6	A1H03	O2-C2-C1	2.38	114.02	109.15
4	LB	2	BGC	C1-O5-C5	2.38	115.42	112.19
4	uB	2	BGC	C1-O5-C5	2.38	115.42	112.19
2	yC	6	A1H03	C1-O5-C5	2.38	115.38	111.48
2	v	6	A1H03	O2-C2-C1	2.38	114.02	109.15
2	iA	6	A1H03	C1-O5-C5	2.38	115.38	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	jB	6	A1H03	C1-O5-C5	2.38	115.38	111.48
2	9	6	A1H03	O2-C2-C1	2.38	114.02	109.15
2	xB	6	A1H03	O2-C2-C1	2.38	114.02	109.15
4	8B	2	BGC	C1-O5-C5	2.38	115.41	112.19
2	kC	6	A1H03	C1-O5-C5	2.38	115.37	111.48
2	pA	6	A1H03	O2-C2-C1	2.38	114.01	109.15
4	RA	2	BGC	C1-O5-C5	2.38	115.41	112.19
2	v	6	A1H03	C1-O5-C5	2.37	115.37	111.48
2	jB	6	A1H03	O2-C2-C1	2.37	114.00	109.15
4	z	2	BGC	C1-O5-C5	2.37	115.41	112.19
2	PC	6	A1H03	O2-C2-C1	2.37	114.00	109.15
4	YA	2	BGC	C1-O5-C5	2.37	115.40	112.19
4	EB	2	BGC	C1-O5-C5	2.37	115.40	112.19
2	VB	6	A1H03	C1-O5-C5	2.37	115.36	111.48
4	s	2	BGC	C1-O5-C5	2.37	115.40	112.19
4	mA	2	BGC	C1-O5-C5	2.37	115.40	112.19
4	6	2	BGC	C1-O5-C5	2.36	115.40	112.19
2	NA	6	A1H03	O2-C2-C1	2.36	113.99	109.15
4	DA	2	BGC	C1-O5-C5	2.36	115.39	112.19
4	fA	2	BGC	C1-O5-C5	2.36	115.39	112.19
4	aC	2	BGC	C1-O5-C5	2.36	115.39	112.19
4	l	2	BGC	C1-O5-C5	2.36	115.39	112.19
4	2C	2	BGC	C1-O5-C5	2.36	115.39	112.19
4	1B	2	BGC	C1-O5-C5	2.35	115.38	112.19
4	MC	2	BGC	C1-O5-C5	2.35	115.37	112.19
4	TC	2	BGC	C1-O5-C5	2.35	115.37	112.19
4	0A	2	BGC	C1-O5-C5	2.34	115.37	112.19
4	KA	2	BGC	C1-O5-C5	2.34	115.37	112.19
4	GD	2	BGC	C1-O5-C5	2.34	115.36	112.19
4	SB	2	BGC	C1-O5-C5	2.34	115.36	112.19
4	vC	2	BGC	C1-O5-C5	2.34	115.36	112.19
4	FC	2	BGC	C1-O5-C5	2.34	115.36	112.19
4	gB	2	BGC	C1-O5-C5	2.33	115.35	112.19
4	hC	2	BGC	C1-O5-C5	2.33	115.34	112.19
4	tA	2	BGC	C1-O5-C5	2.33	115.34	112.19
4	oC	2	BGC	C1-O5-C5	2.33	115.34	112.19
3	hB	4	A1H03	C1-O5-C5	2.30	115.25	111.48
3	8A	4	A1H03	C1-O5-C5	2.30	115.24	111.48
3	t	4	A1H03	C1-O5-C5	2.29	115.24	111.48
3	oB	4	A1H03	C1-O5-C5	2.29	115.24	111.48
3	FB	4	A1H03	C1-O5-C5	2.29	115.23	111.48
3	AD	4	A1H03	C1-O5-C5	2.29	115.23	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	MB	4	A1H03	C1-O5-C5	2.29	115.23	111.48
3	HD	4	A1H03	C1-O5-C5	2.29	115.23	111.48
3	2B	4	A1H03	C1-O5-C5	2.29	115.23	111.48
3	NC	4	A1H03	C1-O5-C5	2.29	115.23	111.48
3	pC	4	A1H03	C1-O5-C5	2.29	115.22	111.48
3	wC	4	A1H03	C1-O5-C5	2.29	115.22	111.48
3	vB	4	A1H03	C1-O5-C5	2.28	115.22	111.48
3	uA	4	A1H03	C1-O5-C5	2.28	115.22	111.48
3	GC	4	A1H03	C1-O5-C5	2.28	115.21	111.48
3	ZA	4	A1H03	C1-O5-C5	2.27	115.20	111.48
3	TB	4	A1H03	C1-O5-C5	2.27	115.20	111.48
3	m	4	A1H03	C1-O5-C5	2.27	115.20	111.48
3	1A	4	A1H03	C1-O5-C5	2.27	115.20	111.48
3	SA	4	A1H03	C1-O5-C5	2.27	115.19	111.48
3	nA	4	A1H03	C1-O5-C5	2.27	115.19	111.48
3	bC	4	A1H03	C1-O5-C5	2.27	115.19	111.48
3	gA	4	A1H03	C1-O5-C5	2.27	115.19	111.48
3	iC	4	A1H03	C1-O5-C5	2.26	115.18	111.48
4	gB	2	BGC	C2-C3-C4	2.26	114.81	110.89
3	7	4	A1H03	C1-O5-C5	2.26	115.18	111.48
3	0	4	A1H03	C1-O5-C5	2.26	115.17	111.48
3	9B	4	A1H03	C1-O5-C5	2.26	115.17	111.48
3	3C	4	A1H03	C1-O5-C5	2.26	115.17	111.48
3	EA	4	A1H03	C1-O5-C5	2.25	115.17	111.48
4	KA	2	BGC	C2-C3-C4	2.25	114.79	110.89
3	UC	4	A1H03	C1-O5-C5	2.25	115.17	111.48
3	LA	4	A1H03	C1-O5-C5	2.25	115.17	111.48
4	DA	2	BGC	C2-C3-C4	2.25	114.79	110.89
3	pC	4	A1H03	C1-C2-C3	2.25	112.43	109.67
3	JB	2	BGC	C3-C4-C5	2.24	114.24	110.24
3	x	2	BGC	C3-C4-C5	2.24	114.24	110.24
4	EB	2	BGC	C2-C3-C4	2.24	114.77	110.89
3	t	4	A1H03	C1-C2-C3	2.24	112.42	109.67
3	0C	2	BGC	C3-C4-C5	2.24	114.23	110.24
3	UC	4	A1H03	C1-C2-C3	2.24	112.42	109.67
3	aB	4	A1H03	C1-O5-C5	2.24	115.15	111.48
4	nB	2	BGC	C2-C3-C4	2.24	114.77	110.89
4	MC	2	BGC	C2-C3-C4	2.24	114.77	110.89
3	q	2	BGC	C3-C4-C5	2.24	114.23	110.24
3	6B	2	BGC	C3-C4-C5	2.24	114.23	110.24
3	eB	2	BGC	C3-C4-C5	2.24	114.23	110.24
3	iC	4	A1H03	C1-C2-C3	2.24	112.42	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	fA	2	BGC	C2-C3-C4	2.24	114.76	110.89
4	ZB	2	BGC	C2-C3-C4	2.24	114.76	110.89
3	PA	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	7C	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	BA	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	4	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	QB	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	1A	4	A1H03	C1-C2-C3	2.23	112.41	109.67
4	uB	2	BGC	C2-C3-C4	2.23	114.76	110.89
3	CB	2	BGC	C3-C4-C5	2.23	114.22	110.24
3	TB	1	GAL	O5-C5-C6	2.23	110.70	107.20
4	GD	2	BGC	C2-C3-C4	2.23	114.76	110.89
4	mA	2	BGC	C2-C3-C4	2.23	114.75	110.89
3	KC	2	BGC	C3-C4-C5	2.23	114.22	110.24
4	aC	2	BGC	C2-C3-C4	2.23	114.75	110.89
3	TB	4	A1H03	C1-C2-C3	2.23	112.41	109.67
2	9	3	A1H1F	O2-C2-C3	2.23	114.61	110.14
3	YC	2	BGC	C3-C4-C5	2.23	114.22	110.24
4	l	2	BGC	C2-C3-C4	2.23	114.75	110.89
3	DC	2	BGC	C3-C4-C5	2.23	114.21	110.24
4	0A	2	BGC	C2-C3-C4	2.23	114.75	110.89
4	8B	2	BGC	C2-C3-C4	2.23	114.75	110.89
4	hC	2	BGC	C2-C3-C4	2.23	114.75	110.89
3	kA	2	BGC	C3-C4-C5	2.23	114.21	110.24
3	sB	2	BGC	C3-C4-C5	2.23	114.21	110.24
3	RC	2	BGC	C3-C4-C5	2.23	114.21	110.24
3	tC	2	BGC	C3-C4-C5	2.23	114.21	110.24
3	uA	4	A1H03	C1-C2-C3	2.23	112.40	109.67
3	uA	1	GAL	O5-C5-C6	2.22	110.69	107.20
3	ZA	1	GAL	O5-C5-C6	2.22	110.69	107.20
2	5C	3	A1H1F	O2-C2-C3	2.22	114.59	110.14
3	j	2	BGC	C3-C4-C5	2.22	114.21	110.24
3	5A	2	BGC	C3-C4-C5	2.22	114.21	110.24
3	LA	1	GAL	O5-C5-C6	2.22	110.69	107.20
3	EA	4	A1H03	C1-C2-C3	2.22	112.40	109.67
4	RA	2	BGC	C2-C3-C4	2.22	114.74	110.89
4	tA	2	BGC	C2-C3-C4	2.22	114.74	110.89
4	LB	2	BGC	C2-C3-C4	2.22	114.74	110.89
3	gA	4	A1H03	C1-C2-C3	2.22	112.40	109.67
3	t	1	GAL	O5-C5-C6	2.22	110.69	107.20
3	IA	2	BGC	C3-C4-C5	2.22	114.20	110.24
3	vB	4	A1H03	C1-C2-C3	2.22	112.40	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	dA	2	BGC	C3-C4-C5	2.22	114.20	110.24
4	9C	2	BGC	C2-C3-C4	2.22	114.74	110.89
4	vC	2	BGC	C2-C3-C4	2.22	114.74	110.89
2	cB	3	A1H1F	O2-C2-C3	2.22	114.58	110.14
4	YA	2	BGC	C2-C3-C4	2.22	114.73	110.89
3	WA	2	BGC	C3-C4-C5	2.22	114.20	110.24
4	FC	2	BGC	C2-C3-C4	2.22	114.73	110.89
3	yA	2	BGC	C3-C4-C5	2.22	114.19	110.24
3	zB	2	BGC	C3-C4-C5	2.22	114.19	110.24
2	yC	3	A1H1F	O2-C2-C3	2.22	114.58	110.14
2	pA	3	A1H1F	O2-C2-C3	2.22	114.58	110.14
4	6	2	BGC	C2-C3-C4	2.22	114.73	110.89
4	SB	2	BGC	C2-C3-C4	2.22	114.73	110.89
3	oB	4	A1H03	C1-C2-C3	2.22	112.39	109.67
3	9B	1	GAL	O5-C5-C6	2.22	110.68	107.20
2	WC	3	A1H1F	O2-C2-C3	2.22	114.58	110.14
3	lB	2	BGC	C3-C4-C5	2.22	114.19	110.24
3	MB	4	A1H03	C1-C2-C3	2.22	112.39	109.67
3	XB	2	BGC	C3-C4-C5	2.21	114.19	110.24
3	UC	1	GAL	O5-C5-C6	2.21	110.68	107.20
3	mC	2	BGC	C3-C4-C5	2.21	114.19	110.24
3	GC	1	GAL	O5-C5-C6	2.21	110.67	107.20
2	GA	3	A1H1F	O2-C2-C3	2.21	114.57	110.14
3	bC	4	A1H03	C1-C2-C3	2.21	112.39	109.67
4	TC	2	BGC	C2-C3-C4	2.21	114.72	110.89
4	s	2	BGC	C2-C3-C4	2.21	114.72	110.89
4	1B	2	BGC	C2-C3-C4	2.21	114.72	110.89
4	2C	2	BGC	C2-C3-C4	2.21	114.72	110.89
3	rA	2	BGC	C3-C4-C5	2.21	114.18	110.24
2	jB	3	A1H1F	O2-C2-C3	2.21	114.57	110.14
2	AB	3	A1H1F	O2-C2-C3	2.21	114.57	110.14
2	qB	3	A1H1F	O2-C2-C3	2.21	114.57	110.14
3	SA	1	GAL	O5-C5-C6	2.21	110.67	107.20
4	oC	2	BGC	C2-C3-C4	2.21	114.72	110.89
3	GC	4	A1H03	C1-C2-C3	2.21	112.38	109.67
3	3C	4	A1H03	C1-C2-C3	2.21	112.38	109.67
2	OB	3	A1H1F	O2-C2-C3	2.21	114.56	110.14
4	7A	2	BGC	C2-C3-C4	2.21	114.72	110.89
3	m	1	GAL	O5-C5-C6	2.21	110.67	107.20
3	MB	1	GAL	O5-C5-C6	2.21	110.67	107.20
3	wC	1	GAL	O5-C5-C6	2.21	110.67	107.20
3	3C	1	GAL	O5-C5-C6	2.21	110.67	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	ED	2	BGC	C3-C4-C5	2.21	114.18	110.24
4	z	2	BGC	C2-C3-C4	2.21	114.72	110.89
3	m	4	A1H03	C1-C2-C3	2.21	112.38	109.67
3	aB	4	A1H03	C1-C2-C3	2.21	112.38	109.67
3	gA	1	GAL	O5-C5-C6	2.21	110.67	107.20
3	AD	4	A1H03	C1-C2-C3	2.21	112.38	109.67
3	8A	4	A1H03	C1-C2-C3	2.20	112.38	109.67
2	o	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
3	pC	1	GAL	O5-C5-C6	2.20	110.66	107.20
3	hB	4	A1H03	C1-C2-C3	2.20	112.38	109.67
2	v	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
2	PC	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
3	ZA	4	A1H03	C1-C2-C3	2.20	112.37	109.67
2	xB	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
3	2B	1	GAL	O5-C5-C6	2.20	110.66	107.20
2	h	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
2	BC	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
2	VB	3	A1H1F	O2-C2-C3	2.20	114.55	110.14
3	0	1	GAL	O5-C5-C6	2.20	110.66	107.20
3	nA	1	GAL	O5-C5-C6	2.20	110.65	107.20
3	wC	4	A1H03	C1-C2-C3	2.20	112.37	109.67
3	fC	2	BGC	C3-C4-C5	2.20	114.16	110.24
3	8A	1	GAL	O5-C5-C6	2.20	110.65	107.20
3	vB	1	GAL	O5-C5-C6	2.20	110.65	107.20
2	NA	3	A1H1F	O2-C2-C3	2.20	114.54	110.14
3	EA	1	GAL	O5-C5-C6	2.20	110.65	107.20
3	oB	1	GAL	O5-C5-C6	2.20	110.65	107.20
2	wA	3	A1H1F	O2-C2-C3	2.20	114.54	110.14
2	rC	3	A1H1F	O2-C2-C3	2.20	114.54	110.14
2	4B	3	A1H1F	O2-C2-C3	2.20	114.54	110.14
2	IC	3	A1H1F	O2-C2-C3	2.20	114.54	110.14
2	CD	3	A1H1F	O2-C2-C3	2.19	114.53	110.14
3	NC	1	GAL	O5-C5-C6	2.19	110.64	107.20
3	7	1	GAL	O5-C5-C6	2.19	110.64	107.20
2	3A	3	A1H1F	O2-C2-C3	2.19	114.53	110.14
2	HB	3	A1H1F	O2-C2-C3	2.19	114.53	110.14
2	kC	3	A1H1F	O2-C2-C3	2.19	114.53	110.14
3	HD	1	GAL	O5-C5-C6	2.19	110.64	107.20
2	2	3	A1H1F	O2-C2-C3	2.19	114.53	110.14
3	7	4	A1H03	C1-C2-C3	2.19	112.36	109.67
3	2B	4	A1H03	C1-C2-C3	2.19	112.36	109.67
3	nA	4	A1H03	C1-C2-C3	2.19	112.36	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	0	4	A1H03	C1-C2-C3	2.19	112.36	109.67
3	LA	4	A1H03	C1-C2-C3	2.19	112.36	109.67
3	FB	4	A1H03	C1-C2-C3	2.19	112.36	109.67
3	AD	1	GAL	O5-C5-C6	2.19	110.63	107.20
3	SA	4	A1H03	C1-C2-C3	2.19	112.35	109.67
3	FB	1	GAL	O5-C5-C6	2.19	110.63	107.20
2	dC	3	A1H1F	O2-C2-C3	2.19	114.52	110.14
3	1A	1	GAL	O5-C5-C6	2.19	110.63	107.20
2	iA	3	A1H1F	O2-C2-C3	2.18	114.52	110.14
3	aB	1	GAL	O5-C5-C6	2.18	110.63	107.20
3	hB	1	GAL	O5-C5-C6	2.18	110.63	107.20
3	iC	1	GAL	O5-C5-C6	2.18	110.63	107.20
3	NC	4	A1H03	C1-C2-C3	2.18	112.35	109.67
3	bC	1	GAL	O5-C5-C6	2.18	110.62	107.20
3	9B	4	A1H03	C1-C2-C3	2.18	112.34	109.67
3	HD	4	A1H03	C1-C2-C3	2.18	112.34	109.67
2	UA	3	A1H1F	O2-C2-C3	2.17	114.49	110.14
2	bA	3	A1H1F	O2-C2-C3	2.17	114.49	110.14
3	gC	4	A1H03	C1-O5-C5	2.17	115.03	111.48
3	XA	4	A1H03	C1-O5-C5	2.17	115.03	111.48
3	mB	4	A1H03	C1-O5-C5	2.16	115.02	111.48
3	tB	4	A1H03	C1-O5-C5	2.16	115.02	111.48
3	RB	4	A1H03	C1-O5-C5	2.16	115.01	111.48
2	VB	2	BGC	C1-C2-C3	2.15	112.31	109.67
4	oA	2	BGC	C2-C3-C4	2.15	114.62	110.89
4	ID	2	BGC	C2-C3-C4	2.15	114.62	110.89
4	OC	2	BGC	C2-C3-C4	2.15	114.61	110.89
2	jB	2	BGC	C1-C2-C3	2.15	112.31	109.67
3	DB	4	A1H03	C1-O5-C5	2.15	115.00	111.48
4	vA	2	BGC	C2-C3-C4	2.15	114.61	110.89
3	7B	4	A1H03	C1-O5-C5	2.14	114.99	111.48
3	EC	4	A1H03	C1-O5-C5	2.14	114.99	111.48
3	ZC	4	A1H03	C1-O5-C5	2.14	114.99	111.48
3	zA	4	A1H03	C1-O5-C5	2.14	114.99	111.48
4	AC	2	BGC	C2-C3-C4	2.14	114.60	110.89
3	y	4	A1H03	C1-O5-C5	2.14	114.99	111.48
4	GB	2	BGC	C2-C3-C4	2.14	114.60	110.89
3	YB	4	A1H03	C1-O5-C5	2.14	114.98	111.48
2	wA	2	BGC	C1-C2-C3	2.14	112.30	109.67
3	5	4	A1H03	C1-O5-C5	2.14	114.98	111.48
2	xB	2	BGC	C1-C2-C3	2.14	112.29	109.67
4	iB	2	BGC	C2-C3-C4	2.14	114.59	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	k	4	A1H03	C1-O5-C5	2.14	114.98	111.48
2	BC	2	BGC	C1-C2-C3	2.13	112.29	109.67
3	eA	4	A1H03	C1-O5-C5	2.13	114.97	111.48
2	o	2	BGC	C1-C2-C3	2.13	112.29	109.67
4	jC	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	qC	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	aA	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	4C	2	BGC	C2-C3-C4	2.13	114.58	110.89
3	nC	4	A1H03	C1-O5-C5	2.13	114.97	111.48
4	cC	2	BGC	C2-C3-C4	2.13	114.58	110.89
3	JA	4	A1H03	C1-O5-C5	2.13	114.97	111.48
2	iA	2	BGC	C1-C2-C3	2.13	112.28	109.67
2	4B	2	BGC	C1-C2-C3	2.13	112.28	109.67
3	QA	4	A1H03	C1-O5-C5	2.13	114.97	111.48
4	2A	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	wB	2	BGC	C2-C3-C4	2.13	114.58	110.89
3	sA	4	A1H03	C1-O5-C5	2.13	114.97	111.48
3	uC	4	A1H03	C1-O5-C5	2.13	114.97	111.48
2	WC	2	BGC	C1-C2-C3	2.13	112.28	109.67
3	fB	4	A1H03	C1-O5-C5	2.13	114.97	111.48
4	VC	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	hA	2	BGC	C2-C3-C4	2.13	114.58	110.89
2	CD	2	BGC	C1-C2-C3	2.13	112.28	109.67
4	n	2	BGC	C2-C3-C4	2.13	114.58	110.89
4	UB	2	BGC	C2-C3-C4	2.13	114.57	110.89
4	BD	2	BGC	C2-C3-C4	2.13	114.57	110.89
3	KB	4	A1H03	C1-O5-C5	2.13	114.96	111.48
4	1	2	BGC	C2-C3-C4	2.12	114.57	110.89
2	3A	2	BGC	C1-C2-C3	2.12	112.28	109.67
4	bB	2	BGC	C2-C3-C4	2.12	114.57	110.89
2	IC	2	BGC	C1-C2-C3	2.12	112.28	109.67
4	FA	2	BGC	C2-C3-C4	2.12	114.57	110.89
4	9A	2	BGC	C2-C3-C4	2.12	114.57	110.89
2	dC	2	BGC	C1-C2-C3	2.12	112.27	109.67
2	h	2	BGC	C1-C2-C3	2.12	112.27	109.67
2	OB	2	BGC	C1-C2-C3	2.12	112.27	109.67
2	qB	2	BGC	C1-C2-C3	2.12	112.27	109.67
4	pB	2	BGC	C2-C3-C4	2.12	114.56	110.89
3	CA	4	A1H03	C1-O5-C5	2.12	114.95	111.48
3	lA	4	A1H03	C1-O5-C5	2.12	114.95	111.48
2	UA	2	BGC	C1-C2-C3	2.12	112.27	109.67
3	0B	4	A1H03	C1-O5-C5	2.12	114.94	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	NA	6	A1H03	O5-C1-C2	-2.11	107.51	110.77
2	2	2	BGC	C1-C2-C3	2.11	112.27	109.67
3	SC	4	A1H03	C1-O5-C5	2.11	114.94	111.48
3	8C	4	A1H03	C1-O5-C5	2.11	114.94	111.48
3	r	4	A1H03	C1-O5-C5	2.11	114.94	111.48
2	kC	2	BGC	C1-C2-C3	2.11	112.26	109.67
4	8	2	BGC	C2-C3-C4	2.11	114.55	110.89
4	TA	2	BGC	C2-C3-C4	2.11	114.55	110.89
3	6A	4	A1H03	C1-O5-C5	2.11	114.94	111.48
2	cB	2	BGC	C1-C2-C3	2.11	112.26	109.67
4	xC	2	BGC	C2-C3-C4	2.11	114.55	110.89
4	u	2	BGC	C2-C3-C4	2.11	114.55	110.89
2	bA	2	BGC	C1-C2-C3	2.11	112.26	109.67
3	LC	4	A1H03	C1-O5-C5	2.11	114.94	111.48
4	NB	2	BGC	C2-C3-C4	2.11	114.55	110.89
4	HC	2	BGC	C2-C3-C4	2.11	114.55	110.89
2	AB	2	BGC	C1-C2-C3	2.11	112.26	109.67
3	8C	1	GAL	C1-C2-C3	2.11	112.26	109.67
2	v	2	BGC	C1-C2-C3	2.11	112.26	109.67
3	FD	4	A1H03	C1-O5-C5	2.11	114.93	111.48
3	1C	4	A1H03	C1-O5-C5	2.11	114.93	111.48
4	3B	2	BGC	C2-C3-C4	2.10	114.54	110.89
2	HB	2	BGC	C1-C2-C3	2.10	112.25	109.67
3	gC	1	GAL	C1-C2-C3	2.10	112.25	109.67
2	OB	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	GA	2	BGC	C1-C2-C3	2.10	112.25	109.67
2	PC	2	BGC	C1-C2-C3	2.10	112.25	109.67
3	mC	4	A1H03	C1-C2-C3	2.10	112.25	109.67
2	cB	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	xB	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	rC	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	iA	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	pA	6	A1H03	O5-C1-C2	-2.10	107.53	110.77
2	PC	6	A1H03	O5-C1-C2	-2.10	107.54	110.77
2	rC	2	BGC	C1-C2-C3	2.10	112.24	109.67
3	uC	1	GAL	C1-C2-C3	2.10	112.24	109.67
2	wA	6	A1H03	O5-C1-C2	-2.10	107.54	110.77
2	o	6	A1H03	O5-C1-C2	-2.09	107.54	110.77
2	kC	6	A1H03	O5-C1-C2	-2.09	107.54	110.77
4	MA	2	BGC	C2-C3-C4	2.09	114.52	110.89
3	rA	4	A1H03	C1-C2-C3	2.09	112.24	109.67
2	IC	6	A1H03	O5-C1-C2	-2.09	107.54	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	HB	6	A1H03	O5-C1-C2	-2.09	107.54	110.77
2	9	2	BGC	C1-C2-C3	2.09	112.24	109.67
3	GC	5	MAN	C1-C2-C3	2.09	112.24	109.67
2	pA	2	BGC	C1-C2-C3	2.09	112.23	109.67
2	5C	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
2	AB	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
2	NA	2	BGC	C1-C2-C3	2.09	112.23	109.67
3	lB	4	A1H03	C1-C2-C3	2.09	112.23	109.67
3	mB	1	GAL	C1-C2-C3	2.09	112.23	109.67
2	jB	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
2	h	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
2	yC	2	BGC	C1-C2-C3	2.09	112.23	109.67
3	XA	1	GAL	C1-C2-C3	2.09	112.23	109.67
3	tB	1	GAL	C1-C2-C3	2.09	112.23	109.67
2	WC	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
2	v	6	A1H03	O5-C1-C2	-2.09	107.55	110.77
3	5	1	GAL	C1-C2-C3	2.09	112.23	109.67
3	7B	1	GAL	C1-C2-C3	2.08	112.23	109.67
2	bA	6	A1H03	O5-C1-C2	-2.08	107.56	110.77
3	FD	1	GAL	C1-C2-C3	2.08	112.23	109.67
2	GA	6	A1H03	O5-C1-C2	-2.08	107.56	110.77
2	VB	6	A1H03	O5-C1-C2	-2.08	107.56	110.77
2	yC	6	A1H03	O5-C1-C2	-2.08	107.56	110.77
3	PA	4	A1H03	C1-C2-C3	2.08	112.22	109.67
3	SA	5	MAN	C1-C2-C3	2.08	112.22	109.67
3	y	1	GAL	C1-C2-C3	2.08	112.22	109.67
2	UA	6	A1H03	O5-C1-C2	-2.08	107.57	110.77
2	dC	6	A1H03	O5-C1-C2	-2.08	107.57	110.77
2	CD	6	A1H03	O5-C1-C2	-2.08	107.57	110.77
3	gA	5	MAN	C1-C2-C3	2.07	112.22	109.67
3	RB	1	GAL	C1-C2-C3	2.07	112.22	109.67
3	nC	1	GAL	C1-C2-C3	2.07	112.22	109.67
3	7	5	MAN	C1-C2-C3	2.07	112.21	109.67
3	fC	4	A1H03	C1-C2-C3	2.07	112.21	109.67
3	k	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	KB	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	LC	1	GAL	C1-C2-C3	2.07	112.21	109.67
2	9	6	A1H03	O5-C1-C2	-2.07	107.57	110.77
2	4B	6	A1H03	O5-C1-C2	-2.07	107.58	110.77
2	5C	2	BGC	C1-C2-C3	2.07	112.21	109.67
3	eB	4	A1H03	C1-C2-C3	2.07	112.21	109.67
3	zB	4	A1H03	C1-C2-C3	2.07	112.21	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	JA	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	sA	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	TB	5	MAN	C1-C2-C3	2.07	112.21	109.67
3	SC	1	GAL	C1-C2-C3	2.07	112.21	109.67
2	BC	6	A1H03	O5-C1-C2	-2.07	107.58	110.77
3	DC	4	A1H03	C1-C2-C3	2.07	112.21	109.67
3	QA	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	6A	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	XB	4	A1H03	C1-C2-C3	2.07	112.21	109.67
3	1C	1	GAL	C1-C2-C3	2.07	112.21	109.67
3	PA	3	A1H1F	C2-C3-C4	2.07	114.47	110.89
3	CA	1	GAL	C1-C2-C3	2.07	112.20	109.67
3	fC	3	A1H1F	C2-C3-C4	2.06	114.47	110.89
2	2	6	A1H03	O5-C1-C2	-2.06	107.58	110.77
3	EA	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	CB	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	9B	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	vB	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	JB	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	bC	3	A1H1F	C1-C2-C3	2.06	112.20	109.67
3	0C	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	EC	1	GAL	C1-C2-C3	2.06	112.20	109.67
3	YC	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	pC	5	MAN	C1-C2-C3	2.06	112.20	109.67
2	qB	6	A1H03	O5-C1-C2	-2.06	107.59	110.77
3	q	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	r	1	GAL	C1-C2-C3	2.06	112.20	109.67
3	x	4	A1H03	C1-C2-C3	2.06	112.20	109.67
3	TB	3	A1H1F	C1-C2-C3	2.06	112.20	109.67
3	hB	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	ZC	1	GAL	C1-C2-C3	2.06	112.20	109.67
3	WA	3	A1H1F	C2-C3-C4	2.06	114.46	110.89
3	1A	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	HD	5	MAN	C1-C2-C3	2.06	112.20	109.67
3	FB	3	A1H1F	C1-C2-C3	2.06	112.19	109.67
3	kA	3	A1H1F	C2-C3-C4	2.06	114.45	110.89
3	LA	5	MAN	C1-C2-C3	2.06	112.19	109.67
3	dA	4	A1H03	C1-C2-C3	2.06	112.19	109.67
3	kA	4	A1H03	C1-C2-C3	2.06	112.19	109.67
3	lA	1	GAL	C1-C2-C3	2.06	112.19	109.67
3	aB	5	MAN	C1-C2-C3	2.06	112.19	109.67
3	0B	1	GAL	C1-C2-C3	2.06	112.19	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	j	4	A1H03	C1-C2-C3	2.06	112.19	109.67
3	yA	4	A1H03	C1-C2-C3	2.06	112.19	109.67
3	fB	1	GAL	C1-C2-C3	2.06	112.19	109.67
3	MB	5	MAN	C1-C2-C3	2.06	112.19	109.67
3	5A	4	A1H03	C1-C2-C3	2.05	112.19	109.67
3	vB	3	A1H1F	C1-C2-C3	2.05	112.19	109.67
3	RC	4	A1H03	C1-C2-C3	2.05	112.19	109.67
2	3A	6	A1H03	O5-C1-C2	-2.05	107.60	110.77
3	XB	3	A1H1F	C2-C3-C4	2.05	114.45	110.89
3	m	5	MAN	C1-C2-C3	2.05	112.19	109.67
3	QB	4	A1H03	C1-C2-C3	2.05	112.19	109.67
3	CB	3	A1H1F	C2-C3-C4	2.05	114.45	110.89
3	rA	3	A1H1F	C2-C3-C4	2.05	114.44	110.89
3	KC	4	A1H03	C1-C2-C3	2.05	112.19	109.67
3	ED	4	A1H03	C1-C2-C3	2.05	112.19	109.67
3	4	4	A1H03	C1-C2-C3	2.05	112.19	109.67
3	q	3	A1H1F	C2-C3-C4	2.05	114.44	110.89
3	QB	3	A1H1F	C2-C3-C4	2.05	114.44	110.89
3	HD	3	A1H1F	C1-C2-C3	2.05	112.19	109.67
3	KC	3	A1H1F	C2-C3-C4	2.05	114.44	110.89
3	ZA	5	MAN	C1-C2-C3	2.05	112.18	109.67
3	bC	5	MAN	C1-C2-C3	2.05	112.18	109.67
3	3C	5	MAN	C1-C2-C3	2.05	112.18	109.67
3	AD	3	A1H1F	C1-C2-C3	2.05	112.18	109.67
3	eA	1	GAL	C1-C2-C3	2.05	112.18	109.67
3	YB	1	GAL	C1-C2-C3	2.05	112.18	109.67
3	hB	3	A1H1F	C1-C2-C3	2.05	112.18	109.67
3	BA	4	A1H03	C1-C2-C3	2.05	112.18	109.67
3	WA	4	A1H03	C1-C2-C3	2.05	112.18	109.67
3	nA	5	MAN	C1-C2-C3	2.05	112.18	109.67
3	AD	5	MAN	C1-C2-C3	2.05	112.18	109.67
3	tC	4	A1H03	C1-C2-C3	2.05	112.18	109.67
3	yA	3	A1H1F	C2-C3-C4	2.05	114.43	110.89
3	zB	3	A1H1F	C2-C3-C4	2.05	114.43	110.89
3	tC	3	A1H1F	C2-C3-C4	2.05	114.43	110.89
3	IA	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	6B	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	wC	5	MAN	C1-C2-C3	2.04	112.18	109.67
3	LA	3	A1H1F	C1-C2-C3	2.04	112.18	109.67
3	NC	5	MAN	C1-C2-C3	2.04	112.18	109.67
3	j	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	BA	3	A1H1F	C2-C3-C4	2.04	114.43	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	UC	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	UC	5	MAN	C1-C2-C3	2.04	112.17	109.67
3	DC	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	RC	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	7C	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	0C	3	A1H1F	C2-C3-C4	2.04	114.43	110.89
3	FB	5	MAN	C1-C2-C3	2.04	112.17	109.67
3	sB	4	A1H03	C1-C2-C3	2.04	112.17	109.67
3	9B	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	aB	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	oB	5	MAN	C1-C2-C3	2.04	112.17	109.67
3	wC	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	t	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	t	5	MAN	C1-C2-C3	2.04	112.17	109.67
3	0	3	A1H1F	C1-C2-C3	2.04	112.17	109.67
3	sB	3	A1H1F	C2-C3-C4	2.03	114.42	110.89
3	uA	5	MAN	C1-C2-C3	2.03	112.17	109.67
3	iC	5	MAN	C1-C2-C3	2.03	112.17	109.67
3	IA	4	A1H03	C1-C2-C3	2.03	112.17	109.67
3	GC	3	A1H1F	C1-C2-C3	2.03	112.17	109.67
3	x	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	JB	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	SA	3	A1H1F	C1-C2-C3	2.03	112.17	109.67
3	4	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	YC	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	mC	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	6B	4	A1H03	C1-C2-C3	2.03	112.16	109.67
3	iC	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	3C	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	m	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	uA	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	1A	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	zA	1	GAL	C1-C2-C3	2.03	112.16	109.67
3	ED	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	eB	3	A1H1F	C2-C3-C4	2.03	114.41	110.89
3	8A	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	gA	3	A1H1F	C1-C2-C3	2.03	112.16	109.67
3	0	5	MAN	C1-C2-C3	2.02	112.15	109.67
3	nA	3	A1H1F	C1-C2-C3	2.02	112.15	109.67
3	7C	4	A1H03	C1-C2-C3	2.02	112.15	109.67
3	EA	3	A1H1F	C1-C2-C3	2.02	112.15	109.67
3	DB	1	GAL	C1-C2-C3	2.02	112.15	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	fA	4	MAN	C2-C3-C4	2.02	114.39	110.89
4	nB	4	MAN	C2-C3-C4	2.02	114.39	110.89
4	FC	4	MAN	C2-C3-C4	2.02	114.39	110.89
3	ZA	3	A1H1F	C1-C2-C3	2.02	112.15	109.67
3	5A	3	A1H1F	C2-C3-C4	2.02	114.39	110.89
4	1B	4	MAN	C2-C3-C4	2.02	114.39	110.89
3	7	3	A1H1F	C1-C2-C3	2.02	112.14	109.67
3	oB	3	A1H1F	C1-C2-C3	2.02	112.14	109.67
4	8B	4	MAN	C2-C3-C4	2.02	114.38	110.89
3	NC	3	A1H1F	C1-C2-C3	2.02	112.14	109.67
3	lB	3	A1H1F	C2-C3-C4	2.02	114.38	110.89
4	RA	4	MAN	C2-C3-C4	2.02	114.38	110.89
3	2B	3	A1H1F	C1-C2-C3	2.01	112.14	109.67
3	8A	5	MAN	C1-C2-C3	2.01	112.14	109.67
3	dA	3	A1H1F	C2-C3-C4	2.01	114.38	110.89
4	KA	4	MAN	C2-C3-C4	2.01	114.38	110.89
4	oC	4	MAN	C3-C4-C5	2.01	113.83	110.24
3	pC	3	A1H1F	C1-C2-C3	2.01	112.14	109.67
4	tA	4	MAN	C2-C3-C4	2.01	114.37	110.89
4	YA	4	MAN	C2-C3-C4	2.01	114.37	110.89
4	0A	4	MAN	C2-C3-C4	2.01	114.37	110.89
3	MB	3	A1H1F	C1-C2-C3	2.01	112.13	109.67
4	uB	4	MAN	C2-C3-C4	2.01	114.37	110.89
4	mA	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	aC	4	MAN	C2-C3-C4	2.00	114.36	110.89
3	2B	5	MAN	C1-C2-C3	2.00	112.13	109.67
4	oC	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	uB	4	MAN	C3-C4-C5	2.00	113.81	110.24
4	TC	4	MAN	C3-C4-C5	2.00	113.81	110.24
4	6	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	MC	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	l	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	s	4	MAN	C2-C3-C4	2.00	114.36	110.89
4	7A	4	MAN	C2-C3-C4	2.00	114.36	110.89

There are no chirality outliers.

All (768) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	h	3	A1H1F	O5-C5-C6-S6
2	o	3	A1H1F	O5-C5-C6-S6
2	v	3	A1H1F	O5-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
2	2	3	A1H1F	O5-C5-C6-S6
2	9	3	A1H1F	O5-C5-C6-S6
2	GA	3	A1H1F	O5-C5-C6-S6
2	NA	3	A1H1F	O5-C5-C6-S6
2	UA	3	A1H1F	O5-C5-C6-S6
2	bA	3	A1H1F	O5-C5-C6-S6
2	iA	3	A1H1F	O5-C5-C6-S6
2	pA	3	A1H1F	O5-C5-C6-S6
2	wA	3	A1H1F	O5-C5-C6-S6
2	3A	3	A1H1F	O5-C5-C6-S6
2	AB	3	A1H1F	O5-C5-C6-S6
2	HB	3	A1H1F	O5-C5-C6-S6
2	OB	3	A1H1F	O5-C5-C6-S6
2	VB	3	A1H1F	O5-C5-C6-S6
2	cB	3	A1H1F	O5-C5-C6-S6
2	jB	3	A1H1F	O5-C5-C6-S6
2	qB	3	A1H1F	O5-C5-C6-S6
2	xB	3	A1H1F	O5-C5-C6-S6
2	4B	3	A1H1F	O5-C5-C6-S6
2	BC	3	A1H1F	O5-C5-C6-S6
2	IC	3	A1H1F	O5-C5-C6-S6
2	PC	3	A1H1F	O5-C5-C6-S6
2	WC	3	A1H1F	O5-C5-C6-S6
2	dC	3	A1H1F	O5-C5-C6-S6
2	kC	3	A1H1F	O5-C5-C6-S6
2	rC	3	A1H1F	O5-C5-C6-S6
2	yC	3	A1H1F	O5-C5-C6-S6
2	5C	3	A1H1F	O5-C5-C6-S6
2	CD	3	A1H1F	O5-C5-C6-S6
3	j	3	A1H1F	O5-C5-C6-S6
3	m	3	A1H1F	O5-C5-C6-S6
3	q	3	A1H1F	O5-C5-C6-S6
3	t	3	A1H1F	O5-C5-C6-S6
3	x	3	A1H1F	O5-C5-C6-S6
3	0	3	A1H1F	O5-C5-C6-S6
3	4	3	A1H1F	O5-C5-C6-S6
3	7	3	A1H1F	O5-C5-C6-S6
3	BA	3	A1H1F	O5-C5-C6-S6
3	EA	3	A1H1F	O5-C5-C6-S6
3	IA	3	A1H1F	O5-C5-C6-S6
3	LA	3	A1H1F	O5-C5-C6-S6
3	PA	3	A1H1F	O5-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
3	SA	3	A1H1F	O5-C5-C6-S6
3	WA	3	A1H1F	O5-C5-C6-S6
3	ZA	3	A1H1F	O5-C5-C6-S6
3	dA	3	A1H1F	O5-C5-C6-S6
3	gA	3	A1H1F	O5-C5-C6-S6
3	kA	3	A1H1F	O5-C5-C6-S6
3	nA	3	A1H1F	O5-C5-C6-S6
3	rA	3	A1H1F	O5-C5-C6-S6
3	uA	3	A1H1F	O5-C5-C6-S6
3	yA	3	A1H1F	O5-C5-C6-S6
3	1A	3	A1H1F	O5-C5-C6-S6
3	5A	3	A1H1F	O5-C5-C6-S6
3	8A	3	A1H1F	O5-C5-C6-S6
3	CB	3	A1H1F	O5-C5-C6-S6
3	FB	3	A1H1F	O5-C5-C6-S6
3	JB	3	A1H1F	O5-C5-C6-S6
3	MB	3	A1H1F	O5-C5-C6-S6
3	QB	3	A1H1F	O5-C5-C6-S6
3	TB	3	A1H1F	O5-C5-C6-S6
3	XB	3	A1H1F	O5-C5-C6-S6
3	aB	3	A1H1F	O5-C5-C6-S6
3	eB	3	A1H1F	O5-C5-C6-S6
3	hB	3	A1H1F	O5-C5-C6-S6
3	lB	3	A1H1F	O5-C5-C6-S6
3	oB	3	A1H1F	O5-C5-C6-S6
3	sB	3	A1H1F	O5-C5-C6-S6
3	vB	3	A1H1F	O5-C5-C6-S6
3	zB	3	A1H1F	O5-C5-C6-S6
3	2B	3	A1H1F	O5-C5-C6-S6
3	6B	3	A1H1F	O5-C5-C6-S6
3	9B	3	A1H1F	O5-C5-C6-S6
3	DC	3	A1H1F	O5-C5-C6-S6
3	GC	3	A1H1F	O5-C5-C6-S6
3	KC	3	A1H1F	O5-C5-C6-S6
3	NC	3	A1H1F	O5-C5-C6-S6
3	RC	3	A1H1F	O5-C5-C6-S6
3	UC	3	A1H1F	O5-C5-C6-S6
3	YC	3	A1H1F	O5-C5-C6-S6
3	bC	3	A1H1F	O5-C5-C6-S6
3	fC	3	A1H1F	O5-C5-C6-S6
3	iC	3	A1H1F	O5-C5-C6-S6
3	mC	3	A1H1F	O5-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
3	pC	3	A1H1F	O5-C5-C6-S6
3	tC	3	A1H1F	O5-C5-C6-S6
3	wC	3	A1H1F	O5-C5-C6-S6
3	0C	3	A1H1F	O5-C5-C6-S6
3	3C	3	A1H1F	O5-C5-C6-S6
3	7C	3	A1H1F	O5-C5-C6-S6
3	AD	3	A1H1F	O5-C5-C6-S6
3	ED	3	A1H1F	O5-C5-C6-S6
3	HD	3	A1H1F	O5-C5-C6-S6
3	j	1	GAL	O5-C5-C6-O6
3	q	1	GAL	O5-C5-C6-O6
3	4	1	GAL	O5-C5-C6-O6
3	BA	1	GAL	O5-C5-C6-O6
3	IA	1	GAL	O5-C5-C6-O6
3	PA	1	GAL	O5-C5-C6-O6
3	WA	1	GAL	O5-C5-C6-O6
3	dA	1	GAL	O5-C5-C6-O6
3	rA	1	GAL	O5-C5-C6-O6
3	yA	1	GAL	O5-C5-C6-O6
3	5A	1	GAL	O5-C5-C6-O6
3	CB	1	GAL	O5-C5-C6-O6
3	JB	1	GAL	O5-C5-C6-O6
3	QB	1	GAL	O5-C5-C6-O6
3	XB	1	GAL	O5-C5-C6-O6
3	eB	1	GAL	O5-C5-C6-O6
3	sB	1	GAL	O5-C5-C6-O6
3	zB	1	GAL	O5-C5-C6-O6
3	6B	1	GAL	O5-C5-C6-O6
3	DC	1	GAL	O5-C5-C6-O6
3	RC	1	GAL	O5-C5-C6-O6
3	YC	1	GAL	O5-C5-C6-O6
3	fC	1	GAL	O5-C5-C6-O6
3	mC	1	GAL	O5-C5-C6-O6
3	tC	1	GAL	O5-C5-C6-O6
3	7C	1	GAL	O5-C5-C6-O6
3	ED	1	GAL	O5-C5-C6-O6
4	l	4	MAN	C4-C5-C6-O6
4	s	4	MAN	C4-C5-C6-O6
4	z	4	MAN	C4-C5-C6-O6
4	6	4	MAN	C4-C5-C6-O6
4	DA	4	MAN	C4-C5-C6-O6
4	KA	4	MAN	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	RA	4	MAN	C4-C5-C6-O6
4	YA	4	MAN	C4-C5-C6-O6
4	fA	4	MAN	C4-C5-C6-O6
4	mA	4	MAN	C4-C5-C6-O6
4	tA	4	MAN	C4-C5-C6-O6
4	0A	4	MAN	C4-C5-C6-O6
4	7A	4	MAN	C4-C5-C6-O6
4	EB	4	MAN	C4-C5-C6-O6
4	LB	4	MAN	C4-C5-C6-O6
4	SB	4	MAN	C4-C5-C6-O6
4	ZB	4	MAN	C4-C5-C6-O6
4	gB	4	MAN	C4-C5-C6-O6
4	nB	4	MAN	C4-C5-C6-O6
4	uB	4	MAN	C4-C5-C6-O6
4	1B	4	MAN	C4-C5-C6-O6
4	8B	4	MAN	C4-C5-C6-O6
4	FC	4	MAN	C4-C5-C6-O6
4	MC	4	MAN	C4-C5-C6-O6
4	TC	4	MAN	C4-C5-C6-O6
4	aC	4	MAN	C4-C5-C6-O6
4	hC	4	MAN	C4-C5-C6-O6
4	oC	4	MAN	C4-C5-C6-O6
4	vC	4	MAN	C4-C5-C6-O6
4	2C	4	MAN	C4-C5-C6-O6
4	9C	4	MAN	C4-C5-C6-O6
4	GD	4	MAN	C4-C5-C6-O6
3	x	1	GAL	O5-C5-C6-O6
3	kA	1	GAL	O5-C5-C6-O6
3	lB	1	GAL	O5-C5-C6-O6
3	KC	1	GAL	O5-C5-C6-O6
3	0C	1	GAL	O5-C5-C6-O6
3	k	2	BGC	C4-C5-C6-O6
3	r	2	BGC	C4-C5-C6-O6
3	y	2	BGC	C4-C5-C6-O6
3	5	2	BGC	C4-C5-C6-O6
3	CA	2	BGC	C4-C5-C6-O6
3	JA	2	BGC	C4-C5-C6-O6
3	QA	2	BGC	C4-C5-C6-O6
3	XA	2	BGC	C4-C5-C6-O6
3	eA	2	BGC	C4-C5-C6-O6
3	lA	2	BGC	C4-C5-C6-O6
3	sA	2	BGC	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	zA	2	BGC	C4-C5-C6-O6
3	6A	2	BGC	C4-C5-C6-O6
3	DB	2	BGC	C4-C5-C6-O6
3	KB	2	BGC	C4-C5-C6-O6
3	RB	2	BGC	C4-C5-C6-O6
3	YB	2	BGC	C4-C5-C6-O6
3	fB	2	BGC	C4-C5-C6-O6
3	mB	2	BGC	C4-C5-C6-O6
3	tB	2	BGC	C4-C5-C6-O6
3	0B	2	BGC	C4-C5-C6-O6
3	7B	2	BGC	C4-C5-C6-O6
3	EC	2	BGC	C4-C5-C6-O6
3	LC	2	BGC	C4-C5-C6-O6
3	SC	2	BGC	C4-C5-C6-O6
3	ZC	2	BGC	C4-C5-C6-O6
3	gC	2	BGC	C4-C5-C6-O6
3	nC	2	BGC	C4-C5-C6-O6
3	uC	2	BGC	C4-C5-C6-O6
3	1C	2	BGC	C4-C5-C6-O6
3	8C	2	BGC	C4-C5-C6-O6
3	FD	2	BGC	C4-C5-C6-O6
4	l	4	MAN	O5-C5-C6-O6
4	s	4	MAN	O5-C5-C6-O6
4	z	4	MAN	O5-C5-C6-O6
4	6	4	MAN	O5-C5-C6-O6
4	DA	4	MAN	O5-C5-C6-O6
4	KA	4	MAN	O5-C5-C6-O6
4	RA	4	MAN	O5-C5-C6-O6
4	YA	4	MAN	O5-C5-C6-O6
4	fA	4	MAN	O5-C5-C6-O6
4	mA	4	MAN	O5-C5-C6-O6
4	tA	4	MAN	O5-C5-C6-O6
4	0A	4	MAN	O5-C5-C6-O6
4	7A	4	MAN	O5-C5-C6-O6
4	EB	4	MAN	O5-C5-C6-O6
4	LB	4	MAN	O5-C5-C6-O6
4	SB	4	MAN	O5-C5-C6-O6
4	ZB	4	MAN	O5-C5-C6-O6
4	gB	4	MAN	O5-C5-C6-O6
4	nB	4	MAN	O5-C5-C6-O6
4	uB	4	MAN	O5-C5-C6-O6
4	1B	4	MAN	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	8B	4	MAN	O5-C5-C6-O6
4	FC	4	MAN	O5-C5-C6-O6
4	MC	4	MAN	O5-C5-C6-O6
4	TC	4	MAN	O5-C5-C6-O6
4	aC	4	MAN	O5-C5-C6-O6
4	hC	4	MAN	O5-C5-C6-O6
4	oC	4	MAN	O5-C5-C6-O6
4	vC	4	MAN	O5-C5-C6-O6
4	2C	4	MAN	O5-C5-C6-O6
4	9C	4	MAN	O5-C5-C6-O6
4	GD	4	MAN	O5-C5-C6-O6
3	j	1	GAL	C4-C5-C6-O6
3	q	1	GAL	C4-C5-C6-O6
3	x	1	GAL	C4-C5-C6-O6
3	BA	1	GAL	C4-C5-C6-O6
3	IA	1	GAL	C4-C5-C6-O6
3	PA	1	GAL	C4-C5-C6-O6
3	WA	1	GAL	C4-C5-C6-O6
3	dA	1	GAL	C4-C5-C6-O6
3	rA	1	GAL	C4-C5-C6-O6
3	yA	1	GAL	C4-C5-C6-O6
3	5A	1	GAL	C4-C5-C6-O6
3	CB	1	GAL	C4-C5-C6-O6
3	JB	1	GAL	C4-C5-C6-O6
3	QB	1	GAL	C4-C5-C6-O6
3	XB	1	GAL	C4-C5-C6-O6
3	eB	1	GAL	C4-C5-C6-O6
3	lB	1	GAL	C4-C5-C6-O6
3	sB	1	GAL	C4-C5-C6-O6
3	6B	1	GAL	C4-C5-C6-O6
3	DC	1	GAL	C4-C5-C6-O6
3	KC	1	GAL	C4-C5-C6-O6
3	RC	1	GAL	C4-C5-C6-O6
3	YC	1	GAL	C4-C5-C6-O6
3	fC	1	GAL	C4-C5-C6-O6
3	mC	1	GAL	C4-C5-C6-O6
3	tC	1	GAL	C4-C5-C6-O6
3	0C	1	GAL	C4-C5-C6-O6
3	7C	1	GAL	C4-C5-C6-O6
3	ED	1	GAL	C4-C5-C6-O6
4	MA	4	MAN	C4-C5-C6-O6
4	hA	4	MAN	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	2A	4	MAN	C4-C5-C6-O6
4	GB	4	MAN	C4-C5-C6-O6
4	NB	4	MAN	C4-C5-C6-O6
4	UB	4	MAN	C4-C5-C6-O6
4	iB	4	MAN	C4-C5-C6-O6
4	3B	4	MAN	C4-C5-C6-O6
4	AC	4	MAN	C4-C5-C6-O6
4	qC	4	MAN	C4-C5-C6-O6
4	4C	4	MAN	C4-C5-C6-O6
4	ID	4	MAN	C4-C5-C6-O6
3	4	1	GAL	C4-C5-C6-O6
3	kA	1	GAL	C4-C5-C6-O6
3	zB	1	GAL	C4-C5-C6-O6
4	n	4	MAN	C4-C5-C6-O6
4	u	4	MAN	C4-C5-C6-O6
4	1	4	MAN	C4-C5-C6-O6
4	8	4	MAN	C4-C5-C6-O6
4	FA	4	MAN	C4-C5-C6-O6
4	TA	4	MAN	C4-C5-C6-O6
4	aA	4	MAN	C4-C5-C6-O6
4	oA	4	MAN	C4-C5-C6-O6
4	vA	4	MAN	C4-C5-C6-O6
4	9A	4	MAN	C4-C5-C6-O6
4	bB	4	MAN	C4-C5-C6-O6
4	pB	4	MAN	C4-C5-C6-O6
4	wB	4	MAN	C4-C5-C6-O6
4	HC	4	MAN	C4-C5-C6-O6
4	OC	4	MAN	C4-C5-C6-O6
4	VC	4	MAN	C4-C5-C6-O6
4	cC	4	MAN	C4-C5-C6-O6
4	jC	4	MAN	C4-C5-C6-O6
4	xC	4	MAN	C4-C5-C6-O6
4	BD	4	MAN	C4-C5-C6-O6
3	k	5	MAN	C4-C5-C6-O6
3	y	5	MAN	C4-C5-C6-O6
3	zA	5	MAN	C4-C5-C6-O6
3	6A	5	MAN	C4-C5-C6-O6
3	KB	5	MAN	C4-C5-C6-O6
3	YB	5	MAN	C4-C5-C6-O6
3	fB	5	MAN	C4-C5-C6-O6
3	mB	5	MAN	C4-C5-C6-O6
3	0B	5	MAN	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	7B	5	MAN	C4-C5-C6-O6
3	uC	5	MAN	C4-C5-C6-O6
3	FD	5	MAN	C4-C5-C6-O6
3	DB	2	BGC	O5-C5-C6-O6
3	SC	2	BGC	O5-C5-C6-O6
3	r	5	MAN	C4-C5-C6-O6
3	5	5	MAN	C4-C5-C6-O6
3	CA	5	MAN	C4-C5-C6-O6
3	JA	5	MAN	C4-C5-C6-O6
3	QA	5	MAN	C4-C5-C6-O6
3	XA	5	MAN	C4-C5-C6-O6
3	eA	5	MAN	C4-C5-C6-O6
3	lA	5	MAN	C4-C5-C6-O6
3	sA	5	MAN	C4-C5-C6-O6
3	DB	5	MAN	C4-C5-C6-O6
3	RB	5	MAN	C4-C5-C6-O6
3	tB	5	MAN	C4-C5-C6-O6
3	EC	5	MAN	C4-C5-C6-O6
3	LC	5	MAN	C4-C5-C6-O6
3	SC	5	MAN	C4-C5-C6-O6
3	ZC	5	MAN	C4-C5-C6-O6
3	gC	5	MAN	C4-C5-C6-O6
3	nC	5	MAN	C4-C5-C6-O6
3	1C	5	MAN	C4-C5-C6-O6
3	8C	5	MAN	C4-C5-C6-O6
3	k	2	BGC	O5-C5-C6-O6
3	r	2	BGC	O5-C5-C6-O6
3	y	2	BGC	O5-C5-C6-O6
3	5	2	BGC	O5-C5-C6-O6
3	CA	2	BGC	O5-C5-C6-O6
3	JA	2	BGC	O5-C5-C6-O6
3	QA	2	BGC	O5-C5-C6-O6
3	XA	2	BGC	O5-C5-C6-O6
3	eA	2	BGC	O5-C5-C6-O6
3	lA	2	BGC	O5-C5-C6-O6
3	sA	2	BGC	O5-C5-C6-O6
3	zA	2	BGC	O5-C5-C6-O6
3	6A	2	BGC	O5-C5-C6-O6
3	KB	2	BGC	O5-C5-C6-O6
3	RB	2	BGC	O5-C5-C6-O6
3	YB	2	BGC	O5-C5-C6-O6
3	fB	2	BGC	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	mB	2	BGC	O5-C5-C6-O6
3	tB	2	BGC	O5-C5-C6-O6
3	0B	2	BGC	O5-C5-C6-O6
3	7B	2	BGC	O5-C5-C6-O6
3	EC	2	BGC	O5-C5-C6-O6
3	LC	2	BGC	O5-C5-C6-O6
3	ZC	2	BGC	O5-C5-C6-O6
3	gC	2	BGC	O5-C5-C6-O6
3	nC	2	BGC	O5-C5-C6-O6
3	uC	2	BGC	O5-C5-C6-O6
3	1C	2	BGC	O5-C5-C6-O6
3	8C	2	BGC	O5-C5-C6-O6
3	FD	2	BGC	O5-C5-C6-O6
4	aA	2	BGC	C4-C5-C6-O6
4	oA	2	BGC	C4-C5-C6-O6
4	vA	2	BGC	C4-C5-C6-O6
4	bB	2	BGC	C4-C5-C6-O6
4	wB	2	BGC	C4-C5-C6-O6
4	3B	2	BGC	C4-C5-C6-O6
4	cC	2	BGC	C4-C5-C6-O6
4	xC	2	BGC	C4-C5-C6-O6
4	ID	2	BGC	C4-C5-C6-O6
4	u	4	MAN	O5-C5-C6-O6
4	oA	4	MAN	O5-C5-C6-O6
4	vA	4	MAN	O5-C5-C6-O6
4	9A	4	MAN	O5-C5-C6-O6
4	NB	4	MAN	O5-C5-C6-O6
4	jC	4	MAN	O5-C5-C6-O6
4	qC	4	MAN	O5-C5-C6-O6
4	n	2	BGC	C4-C5-C6-O6
4	u	2	BGC	C4-C5-C6-O6
4	1	2	BGC	C4-C5-C6-O6
4	8	2	BGC	C4-C5-C6-O6
4	FA	2	BGC	C4-C5-C6-O6
4	MA	2	BGC	C4-C5-C6-O6
4	TA	2	BGC	C4-C5-C6-O6
4	hA	2	BGC	C4-C5-C6-O6
4	2A	2	BGC	C4-C5-C6-O6
4	9A	2	BGC	C4-C5-C6-O6
4	GB	2	BGC	C4-C5-C6-O6
4	NB	2	BGC	C4-C5-C6-O6
4	UB	2	BGC	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	iB	2	BGC	C4-C5-C6-O6
4	pB	2	BGC	C4-C5-C6-O6
4	AC	2	BGC	C4-C5-C6-O6
4	HC	2	BGC	C4-C5-C6-O6
4	OC	2	BGC	C4-C5-C6-O6
4	VC	2	BGC	C4-C5-C6-O6
4	jC	2	BGC	C4-C5-C6-O6
4	qC	2	BGC	C4-C5-C6-O6
4	4C	2	BGC	C4-C5-C6-O6
4	BD	2	BGC	C4-C5-C6-O6
4	aA	4	MAN	O5-C5-C6-O6
4	GB	4	MAN	O5-C5-C6-O6
4	xC	4	MAN	O5-C5-C6-O6
4	n	4	MAN	O5-C5-C6-O6
4	8	4	MAN	O5-C5-C6-O6
4	MA	4	MAN	O5-C5-C6-O6
4	hA	4	MAN	O5-C5-C6-O6
4	UB	4	MAN	O5-C5-C6-O6
4	iB	4	MAN	O5-C5-C6-O6
4	wB	4	MAN	O5-C5-C6-O6
4	3B	4	MAN	O5-C5-C6-O6
4	AC	4	MAN	O5-C5-C6-O6
4	OC	4	MAN	O5-C5-C6-O6
4	VC	4	MAN	O5-C5-C6-O6
4	4C	4	MAN	O5-C5-C6-O6
4	BD	4	MAN	O5-C5-C6-O6
4	ID	4	MAN	O5-C5-C6-O6
4	1	4	MAN	O5-C5-C6-O6
4	FA	4	MAN	O5-C5-C6-O6
4	TA	4	MAN	O5-C5-C6-O6
4	2A	4	MAN	O5-C5-C6-O6
4	bB	4	MAN	O5-C5-C6-O6
4	pB	4	MAN	O5-C5-C6-O6
4	HC	4	MAN	O5-C5-C6-O6
4	cC	4	MAN	O5-C5-C6-O6
3	k	5	MAN	O5-C5-C6-O6
3	r	5	MAN	O5-C5-C6-O6
3	y	5	MAN	O5-C5-C6-O6
3	5	5	MAN	O5-C5-C6-O6
3	CA	5	MAN	O5-C5-C6-O6
3	JA	5	MAN	O5-C5-C6-O6
3	QA	5	MAN	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	XA	5	MAN	O5-C5-C6-O6
3	eA	5	MAN	O5-C5-C6-O6
3	lA	5	MAN	O5-C5-C6-O6
3	sA	5	MAN	O5-C5-C6-O6
3	zA	5	MAN	O5-C5-C6-O6
3	6A	5	MAN	O5-C5-C6-O6
3	DB	5	MAN	O5-C5-C6-O6
3	KB	5	MAN	O5-C5-C6-O6
3	RB	5	MAN	O5-C5-C6-O6
3	YB	5	MAN	O5-C5-C6-O6
3	fB	5	MAN	O5-C5-C6-O6
3	mB	5	MAN	O5-C5-C6-O6
3	tB	5	MAN	O5-C5-C6-O6
3	0B	5	MAN	O5-C5-C6-O6
3	7B	5	MAN	O5-C5-C6-O6
3	EC	5	MAN	O5-C5-C6-O6
3	LC	5	MAN	O5-C5-C6-O6
3	SC	5	MAN	O5-C5-C6-O6
3	ZC	5	MAN	O5-C5-C6-O6
3	gC	5	MAN	O5-C5-C6-O6
3	nC	5	MAN	O5-C5-C6-O6
3	uC	5	MAN	O5-C5-C6-O6
3	1C	5	MAN	O5-C5-C6-O6
3	8C	5	MAN	O5-C5-C6-O6
3	FD	5	MAN	O5-C5-C6-O6
3	x	5	MAN	C4-C5-C6-O6
3	BA	5	MAN	C4-C5-C6-O6
3	IA	5	MAN	C4-C5-C6-O6
3	PA	5	MAN	C4-C5-C6-O6
3	WA	5	MAN	C4-C5-C6-O6
3	dA	5	MAN	C4-C5-C6-O6
3	kA	5	MAN	C4-C5-C6-O6
3	sB	5	MAN	C4-C5-C6-O6
3	6B	5	MAN	C4-C5-C6-O6
3	fC	5	MAN	C4-C5-C6-O6
3	tC	5	MAN	C4-C5-C6-O6
3	7C	5	MAN	C4-C5-C6-O6
3	5A	5	MAN	C4-C5-C6-O6
3	j	5	MAN	C4-C5-C6-O6
3	q	5	MAN	C4-C5-C6-O6
3	4	5	MAN	C4-C5-C6-O6
3	rA	5	MAN	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	yA	5	MAN	C4-C5-C6-O6
3	CB	5	MAN	C4-C5-C6-O6
3	JB	5	MAN	C4-C5-C6-O6
3	XB	5	MAN	C4-C5-C6-O6
3	lB	5	MAN	C4-C5-C6-O6
3	zB	5	MAN	C4-C5-C6-O6
3	DC	5	MAN	C4-C5-C6-O6
3	KC	5	MAN	C4-C5-C6-O6
3	RC	5	MAN	C4-C5-C6-O6
3	YC	5	MAN	C4-C5-C6-O6
3	mC	5	MAN	C4-C5-C6-O6
3	0C	5	MAN	C4-C5-C6-O6
3	ED	5	MAN	C4-C5-C6-O6
3	QB	5	MAN	C4-C5-C6-O6
3	eB	5	MAN	C4-C5-C6-O6
2	h	3	A1H1F	C4-C5-C6-S6
2	o	3	A1H1F	C4-C5-C6-S6
2	v	3	A1H1F	C4-C5-C6-S6
2	2	3	A1H1F	C4-C5-C6-S6
2	9	3	A1H1F	C4-C5-C6-S6
2	GA	3	A1H1F	C4-C5-C6-S6
2	NA	3	A1H1F	C4-C5-C6-S6
2	UA	3	A1H1F	C4-C5-C6-S6
2	bA	3	A1H1F	C4-C5-C6-S6
2	iA	3	A1H1F	C4-C5-C6-S6
2	pA	3	A1H1F	C4-C5-C6-S6
2	wA	3	A1H1F	C4-C5-C6-S6
2	3A	3	A1H1F	C4-C5-C6-S6
2	AB	3	A1H1F	C4-C5-C6-S6
2	HB	3	A1H1F	C4-C5-C6-S6
2	OB	3	A1H1F	C4-C5-C6-S6
2	VB	3	A1H1F	C4-C5-C6-S6
2	cB	3	A1H1F	C4-C5-C6-S6
2	jB	3	A1H1F	C4-C5-C6-S6
2	qB	3	A1H1F	C4-C5-C6-S6
2	xB	3	A1H1F	C4-C5-C6-S6
2	4B	3	A1H1F	C4-C5-C6-S6
2	BC	3	A1H1F	C4-C5-C6-S6
2	IC	3	A1H1F	C4-C5-C6-S6
2	PC	3	A1H1F	C4-C5-C6-S6
2	WC	3	A1H1F	C4-C5-C6-S6
2	dC	3	A1H1F	C4-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
2	kC	3	A1H1F	C4-C5-C6-S6
2	rC	3	A1H1F	C4-C5-C6-S6
2	yC	3	A1H1F	C4-C5-C6-S6
2	5C	3	A1H1F	C4-C5-C6-S6
2	CD	3	A1H1F	C4-C5-C6-S6
3	j	3	A1H1F	C4-C5-C6-S6
3	m	3	A1H1F	C4-C5-C6-S6
3	q	3	A1H1F	C4-C5-C6-S6
3	t	3	A1H1F	C4-C5-C6-S6
3	x	3	A1H1F	C4-C5-C6-S6
3	0	3	A1H1F	C4-C5-C6-S6
3	4	3	A1H1F	C4-C5-C6-S6
3	7	3	A1H1F	C4-C5-C6-S6
3	BA	3	A1H1F	C4-C5-C6-S6
3	EA	3	A1H1F	C4-C5-C6-S6
3	IA	3	A1H1F	C4-C5-C6-S6
3	LA	3	A1H1F	C4-C5-C6-S6
3	PA	3	A1H1F	C4-C5-C6-S6
3	SA	3	A1H1F	C4-C5-C6-S6
3	WA	3	A1H1F	C4-C5-C6-S6
3	ZA	3	A1H1F	C4-C5-C6-S6
3	dA	3	A1H1F	C4-C5-C6-S6
3	gA	3	A1H1F	C4-C5-C6-S6
3	kA	3	A1H1F	C4-C5-C6-S6
3	nA	3	A1H1F	C4-C5-C6-S6
3	rA	3	A1H1F	C4-C5-C6-S6
3	uA	3	A1H1F	C4-C5-C6-S6
3	yA	3	A1H1F	C4-C5-C6-S6
3	1A	3	A1H1F	C4-C5-C6-S6
3	5A	3	A1H1F	C4-C5-C6-S6
3	8A	3	A1H1F	C4-C5-C6-S6
3	CB	3	A1H1F	C4-C5-C6-S6
3	FB	3	A1H1F	C4-C5-C6-S6
3	JB	3	A1H1F	C4-C5-C6-S6
3	MB	3	A1H1F	C4-C5-C6-S6
3	QB	3	A1H1F	C4-C5-C6-S6
3	TB	3	A1H1F	C4-C5-C6-S6
3	XB	3	A1H1F	C4-C5-C6-S6
3	aB	3	A1H1F	C4-C5-C6-S6
3	eB	3	A1H1F	C4-C5-C6-S6
3	hB	3	A1H1F	C4-C5-C6-S6
3	lB	3	A1H1F	C4-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
3	oB	3	A1H1F	C4-C5-C6-S6
3	sB	3	A1H1F	C4-C5-C6-S6
3	vB	3	A1H1F	C4-C5-C6-S6
3	zB	3	A1H1F	C4-C5-C6-S6
3	2B	3	A1H1F	C4-C5-C6-S6
3	6B	3	A1H1F	C4-C5-C6-S6
3	9B	3	A1H1F	C4-C5-C6-S6
3	DC	3	A1H1F	C4-C5-C6-S6
3	GC	3	A1H1F	C4-C5-C6-S6
3	KC	3	A1H1F	C4-C5-C6-S6
3	NC	3	A1H1F	C4-C5-C6-S6
3	RC	3	A1H1F	C4-C5-C6-S6
3	UC	3	A1H1F	C4-C5-C6-S6
3	YC	3	A1H1F	C4-C5-C6-S6
3	bC	3	A1H1F	C4-C5-C6-S6
3	fC	3	A1H1F	C4-C5-C6-S6
3	iC	3	A1H1F	C4-C5-C6-S6
3	mC	3	A1H1F	C4-C5-C6-S6
3	pC	3	A1H1F	C4-C5-C6-S6
3	tC	3	A1H1F	C4-C5-C6-S6
3	wC	3	A1H1F	C4-C5-C6-S6
3	0C	3	A1H1F	C4-C5-C6-S6
3	3C	3	A1H1F	C4-C5-C6-S6
3	7C	3	A1H1F	C4-C5-C6-S6
3	AD	3	A1H1F	C4-C5-C6-S6
3	ED	3	A1H1F	C4-C5-C6-S6
3	HD	3	A1H1F	C4-C5-C6-S6
4	TA	2	BGC	O5-C5-C6-O6
4	2A	2	BGC	O5-C5-C6-O6
4	wB	2	BGC	O5-C5-C6-O6
4	3B	2	BGC	O5-C5-C6-O6
4	xC	2	BGC	O5-C5-C6-O6
4	vA	2	BGC	O5-C5-C6-O6
4	1	2	BGC	O5-C5-C6-O6
4	8	2	BGC	O5-C5-C6-O6
4	MA	2	BGC	O5-C5-C6-O6
4	oA	2	BGC	O5-C5-C6-O6
4	bB	2	BGC	O5-C5-C6-O6
4	jC	2	BGC	O5-C5-C6-O6
4	n	2	BGC	O5-C5-C6-O6
4	GB	2	BGC	O5-C5-C6-O6
4	UB	2	BGC	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	pB	2	BGC	O5-C5-C6-O6
4	AC	2	BGC	O5-C5-C6-O6
4	OC	2	BGC	O5-C5-C6-O6
4	aA	2	BGC	O5-C5-C6-O6
4	hA	2	BGC	O5-C5-C6-O6
4	9A	2	BGC	O5-C5-C6-O6
4	NB	2	BGC	O5-C5-C6-O6
4	iB	2	BGC	O5-C5-C6-O6
4	HC	2	BGC	O5-C5-C6-O6
4	VC	2	BGC	O5-C5-C6-O6
4	cC	2	BGC	O5-C5-C6-O6
4	qC	2	BGC	O5-C5-C6-O6
4	4C	2	BGC	O5-C5-C6-O6
4	BD	2	BGC	O5-C5-C6-O6
4	ID	2	BGC	O5-C5-C6-O6
4	u	2	BGC	O5-C5-C6-O6
4	FA	2	BGC	O5-C5-C6-O6
2	9	1	GAL	C4-C5-C6-O6
2	yC	1	GAL	C4-C5-C6-O6
2	AB	1	GAL	C4-C5-C6-O6
2	cB	1	GAL	C4-C5-C6-O6
2	IC	1	GAL	C4-C5-C6-O6
2	CD	1	GAL	C4-C5-C6-O6
2	iA	1	GAL	C4-C5-C6-O6
2	pA	1	GAL	C4-C5-C6-O6
2	wA	1	GAL	C4-C5-C6-O6
2	3A	1	GAL	C4-C5-C6-O6
2	OB	1	GAL	C4-C5-C6-O6
2	PC	1	GAL	C4-C5-C6-O6
2	h	1	GAL	C4-C5-C6-O6
2	v	1	GAL	C4-C5-C6-O6
2	2	1	GAL	C4-C5-C6-O6
2	GA	1	GAL	C4-C5-C6-O6
2	bA	1	GAL	C4-C5-C6-O6
2	VB	1	GAL	C4-C5-C6-O6
2	xB	1	GAL	C4-C5-C6-O6
2	BC	1	GAL	C4-C5-C6-O6
2	kC	1	GAL	C4-C5-C6-O6
2	rC	1	GAL	C4-C5-C6-O6
2	5C	1	GAL	C4-C5-C6-O6
2	o	1	GAL	C4-C5-C6-O6
2	NA	1	GAL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	jB	1	GAL	C4-C5-C6-O6
2	UA	1	GAL	C4-C5-C6-O6
2	qB	1	GAL	C4-C5-C6-O6
2	4B	1	GAL	C4-C5-C6-O6
3	t	5	MAN	C4-C5-C6-O6
3	ZA	5	MAN	C4-C5-C6-O6
3	nA	5	MAN	C4-C5-C6-O6
2	HB	1	GAL	C4-C5-C6-O6
2	WC	1	GAL	C4-C5-C6-O6
2	dC	1	GAL	C4-C5-C6-O6
3	7	5	MAN	C4-C5-C6-O6
3	gA	5	MAN	C4-C5-C6-O6
3	hB	5	MAN	C4-C5-C6-O6
3	oB	5	MAN	C4-C5-C6-O6
3	2B	5	MAN	C4-C5-C6-O6
3	bC	5	MAN	C4-C5-C6-O6
3	m	5	MAN	C4-C5-C6-O6
3	LA	5	MAN	C4-C5-C6-O6
3	SA	5	MAN	C4-C5-C6-O6
3	uA	5	MAN	C4-C5-C6-O6
3	1A	5	MAN	C4-C5-C6-O6
3	aB	5	MAN	C4-C5-C6-O6
3	UC	5	MAN	C4-C5-C6-O6
3	iC	5	MAN	C4-C5-C6-O6
3	wC	5	MAN	C4-C5-C6-O6
3	AD	5	MAN	C4-C5-C6-O6
3	HD	5	MAN	C4-C5-C6-O6
3	0	5	MAN	C4-C5-C6-O6
3	EA	5	MAN	C4-C5-C6-O6
3	8A	5	MAN	C4-C5-C6-O6
3	FB	5	MAN	C4-C5-C6-O6
3	MB	5	MAN	C4-C5-C6-O6
3	TB	5	MAN	C4-C5-C6-O6
3	vB	5	MAN	C4-C5-C6-O6
3	9B	5	MAN	C4-C5-C6-O6
3	GC	5	MAN	C4-C5-C6-O6
3	NC	5	MAN	C4-C5-C6-O6
3	pC	5	MAN	C4-C5-C6-O6
3	3C	5	MAN	C4-C5-C6-O6
4	l	1	GAL	C4-C5-C6-O6
4	RA	1	GAL	C4-C5-C6-O6
4	fA	1	GAL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	7A	1	GAL	C4-C5-C6-O6
4	EB	1	GAL	C4-C5-C6-O6
4	LB	1	GAL	C4-C5-C6-O6
4	SB	1	GAL	C4-C5-C6-O6
4	MC	1	GAL	C4-C5-C6-O6
4	TC	1	GAL	C4-C5-C6-O6
4	hC	1	GAL	C4-C5-C6-O6
4	oC	1	GAL	C4-C5-C6-O6
4	GD	1	GAL	C4-C5-C6-O6
4	s	1	GAL	C4-C5-C6-O6
4	z	1	GAL	C4-C5-C6-O6
4	6	1	GAL	C4-C5-C6-O6
4	DA	1	GAL	C4-C5-C6-O6
4	KA	1	GAL	C4-C5-C6-O6
4	YA	1	GAL	C4-C5-C6-O6
4	mA	1	GAL	C4-C5-C6-O6
4	0A	1	GAL	C4-C5-C6-O6
4	ZB	1	GAL	C4-C5-C6-O6
4	gB	1	GAL	C4-C5-C6-O6
4	nB	1	GAL	C4-C5-C6-O6
4	uB	1	GAL	C4-C5-C6-O6
4	1B	1	GAL	C4-C5-C6-O6
4	8B	1	GAL	C4-C5-C6-O6
4	FC	1	GAL	C4-C5-C6-O6
4	aC	1	GAL	C4-C5-C6-O6
4	vC	1	GAL	C4-C5-C6-O6
4	9C	1	GAL	C4-C5-C6-O6
4	2C	1	GAL	C4-C5-C6-O6
4	tA	1	GAL	C4-C5-C6-O6
4	FA	1	GAL	C4-C5-C6-O6
4	u	1	GAL	C4-C5-C6-O6
4	hA	1	GAL	C4-C5-C6-O6
4	n	1	GAL	C4-C5-C6-O6
4	8	1	GAL	C4-C5-C6-O6
4	TA	1	GAL	C4-C5-C6-O6
4	aA	1	GAL	C4-C5-C6-O6
4	vA	1	GAL	C4-C5-C6-O6
4	GB	1	GAL	C4-C5-C6-O6
4	NB	1	GAL	C4-C5-C6-O6
4	bB	1	GAL	C4-C5-C6-O6
4	pB	1	GAL	C4-C5-C6-O6
4	AC	1	GAL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	HC	1	GAL	C4-C5-C6-O6
4	VC	1	GAL	C4-C5-C6-O6
4	cC	1	GAL	C4-C5-C6-O6
4	jC	1	GAL	C4-C5-C6-O6
4	4C	1	GAL	C4-C5-C6-O6
4	ID	1	GAL	C4-C5-C6-O6
4	oA	1	GAL	C4-C5-C6-O6
4	OC	1	GAL	C4-C5-C6-O6
4	2A	1	GAL	C4-C5-C6-O6
4	9A	1	GAL	C4-C5-C6-O6
4	wB	1	GAL	C4-C5-C6-O6
4	3B	1	GAL	C4-C5-C6-O6
4	xC	1	GAL	C4-C5-C6-O6
4	BD	1	GAL	C4-C5-C6-O6
4	MA	1	GAL	C4-C5-C6-O6
4	UB	1	GAL	C4-C5-C6-O6
4	iB	1	GAL	C4-C5-C6-O6
4	1	1	GAL	C4-C5-C6-O6
4	qC	1	GAL	C4-C5-C6-O6
4	n	3	A1H1F	O5-C5-C6-S6
4	u	3	A1H1F	O5-C5-C6-S6
4	1	3	A1H1F	O5-C5-C6-S6
4	8	3	A1H1F	O5-C5-C6-S6
4	FA	3	A1H1F	O5-C5-C6-S6
4	MA	3	A1H1F	O5-C5-C6-S6
4	TA	3	A1H1F	O5-C5-C6-S6
4	aA	3	A1H1F	O5-C5-C6-S6
4	hA	3	A1H1F	O5-C5-C6-S6
4	oA	3	A1H1F	O5-C5-C6-S6
4	vA	3	A1H1F	O5-C5-C6-S6
4	2A	3	A1H1F	O5-C5-C6-S6
4	9A	3	A1H1F	O5-C5-C6-S6
4	GB	3	A1H1F	O5-C5-C6-S6
4	NB	3	A1H1F	O5-C5-C6-S6
4	UB	3	A1H1F	O5-C5-C6-S6
4	bB	3	A1H1F	O5-C5-C6-S6
4	iB	3	A1H1F	O5-C5-C6-S6
4	pB	3	A1H1F	O5-C5-C6-S6
4	wB	3	A1H1F	O5-C5-C6-S6
4	3B	3	A1H1F	O5-C5-C6-S6
4	AC	3	A1H1F	O5-C5-C6-S6
4	HC	3	A1H1F	O5-C5-C6-S6

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Mol	Chain	Res	Type	Atoms
4	OC	3	A1H1F	O5-C5-C6-S6
4	VC	3	A1H1F	O5-C5-C6-S6
4	cC	3	A1H1F	O5-C5-C6-S6
4	jC	3	A1H1F	O5-C5-C6-S6
4	qC	3	A1H1F	O5-C5-C6-S6
4	xC	3	A1H1F	O5-C5-C6-S6
4	4C	3	A1H1F	O5-C5-C6-S6
4	BD	3	A1H1F	O5-C5-C6-S6
4	ID	3	A1H1F	O5-C5-C6-S6

All (32) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	BC	5	MAN	C1-C2-C3-C4-C5-O5
2	UA	5	MAN	C1-C2-C3-C4-C5-O5
2	HB	5	MAN	C1-C2-C3-C4-C5-O5
2	pA	5	MAN	C1-C2-C3-C4-C5-O5
2	rC	5	MAN	C1-C2-C3-C4-C5-O5
2	IC	5	MAN	C1-C2-C3-C4-C5-O5
2	o	5	MAN	C1-C2-C3-C4-C5-O5
2	AB	5	MAN	C1-C2-C3-C4-C5-O5
2	qB	5	MAN	C1-C2-C3-C4-C5-O5
2	yC	5	MAN	C1-C2-C3-C4-C5-O5
2	4B	5	MAN	C1-C2-C3-C4-C5-O5
2	VB	5	MAN	C1-C2-C3-C4-C5-O5
2	bA	5	MAN	C1-C2-C3-C4-C5-O5
2	iA	5	MAN	C1-C2-C3-C4-C5-O5
2	h	5	MAN	C1-C2-C3-C4-C5-O5
2	5C	5	MAN	C1-C2-C3-C4-C5-O5
2	kC	5	MAN	C1-C2-C3-C4-C5-O5
2	9	5	MAN	C1-C2-C3-C4-C5-O5
2	NA	5	MAN	C1-C2-C3-C4-C5-O5
2	dC	5	MAN	C1-C2-C3-C4-C5-O5
2	CD	5	MAN	C1-C2-C3-C4-C5-O5
2	v	5	MAN	C1-C2-C3-C4-C5-O5
2	jB	5	MAN	C1-C2-C3-C4-C5-O5
2	3A	5	MAN	C1-C2-C3-C4-C5-O5
2	xB	5	MAN	C1-C2-C3-C4-C5-O5
2	wA	5	MAN	C1-C2-C3-C4-C5-O5
2	2	5	MAN	C1-C2-C3-C4-C5-O5
2	GA	5	MAN	C1-C2-C3-C4-C5-O5
2	cB	5	MAN	C1-C2-C3-C4-C5-O5

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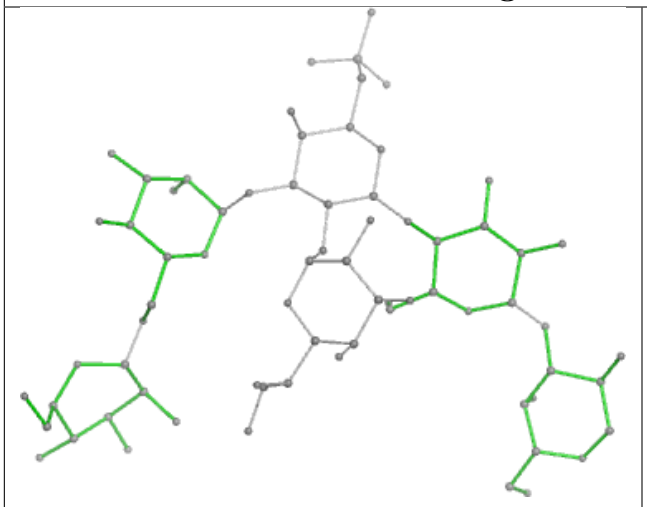
Mol	Chain	Res	Type	Atoms
2	PC	5	MAN	C1-C2-C3-C4-C5-O5
2	WC	5	MAN	C1-C2-C3-C4-C5-O5
2	OB	5	MAN	C1-C2-C3-C4-C5-O5

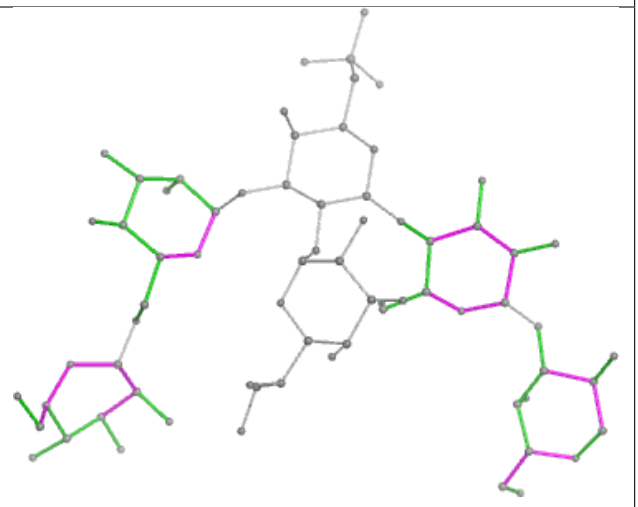
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

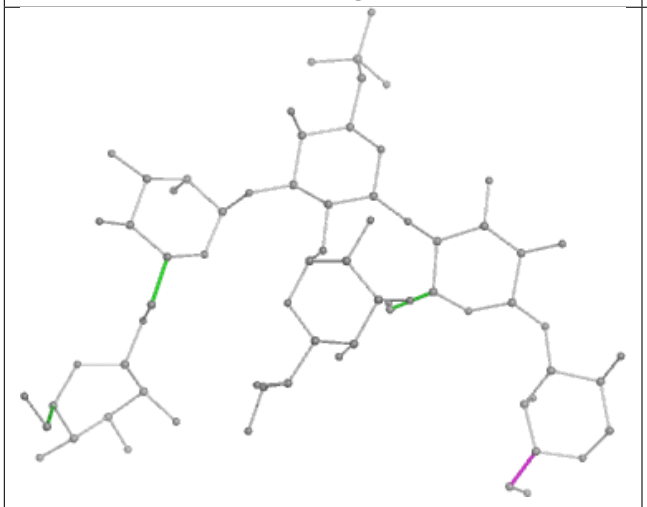
Oligosaccharide Chain h



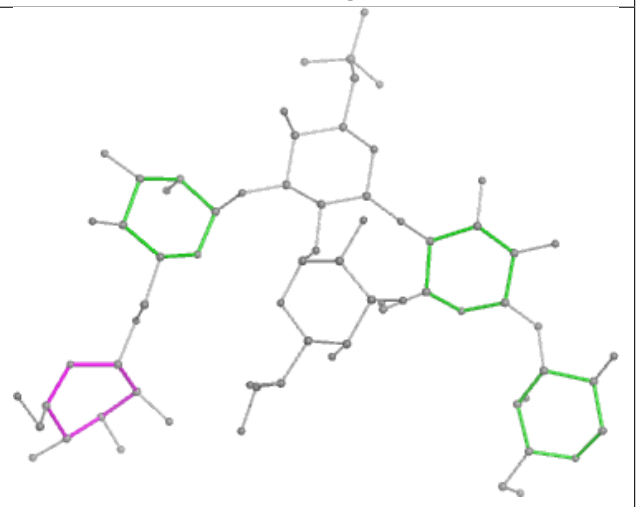
Bond lengths



Bond angles

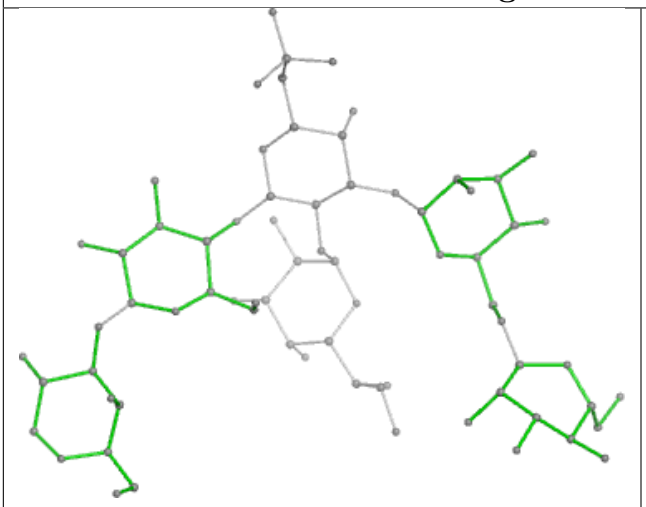


Torsions

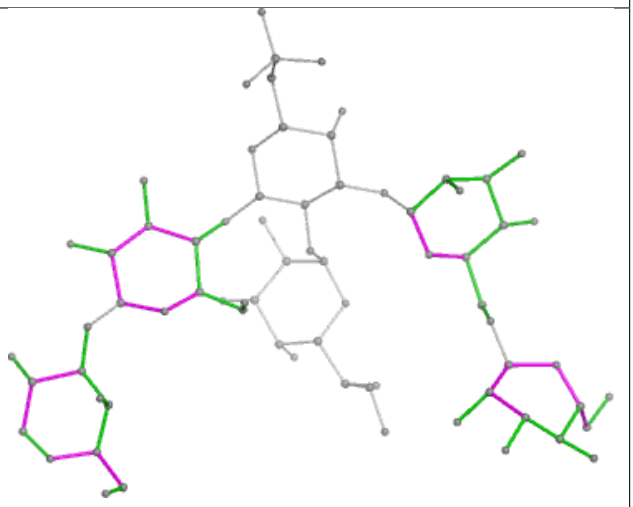


Rings

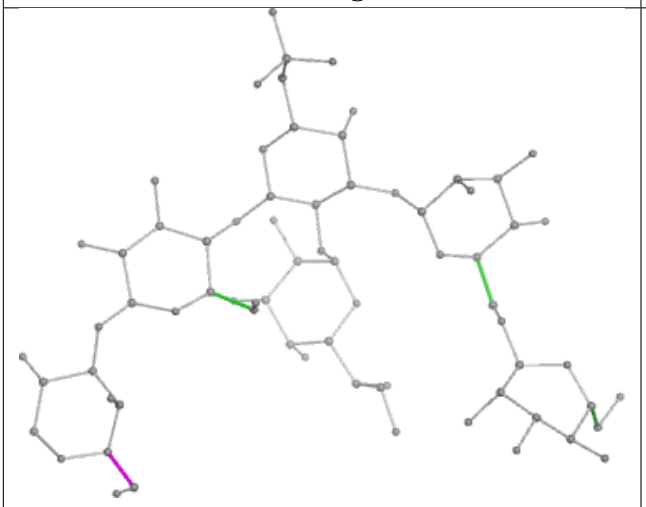
Oligosaccharide Chain o



Bond lengths



Bond angles



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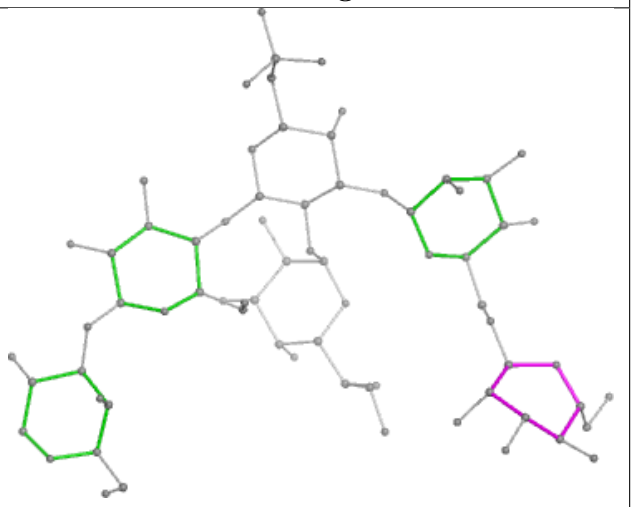
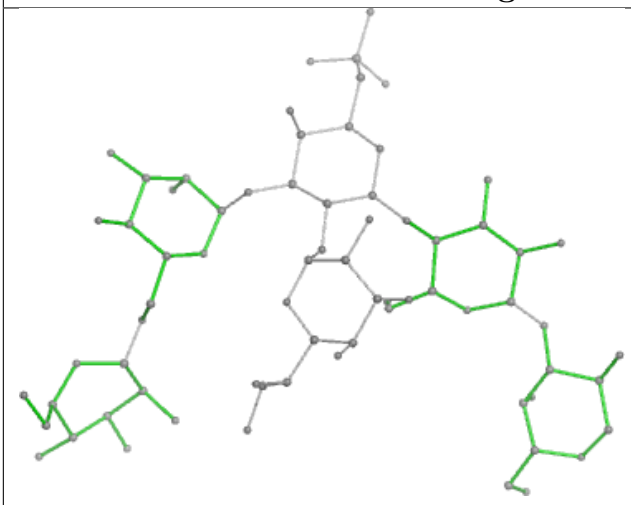
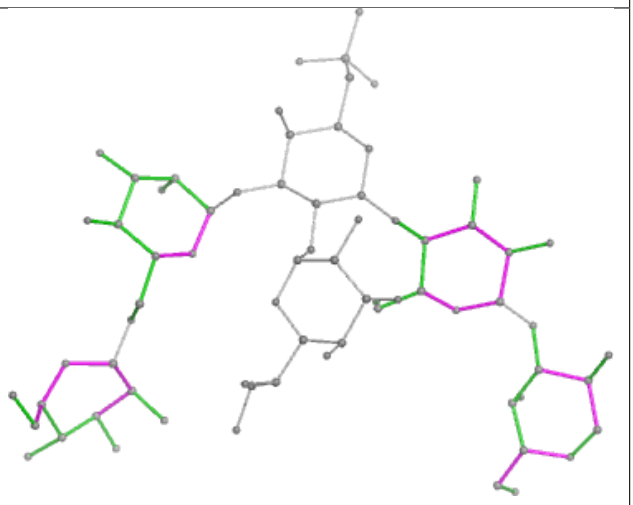


Rings

Oligosaccharide Chain v



Bond lengths



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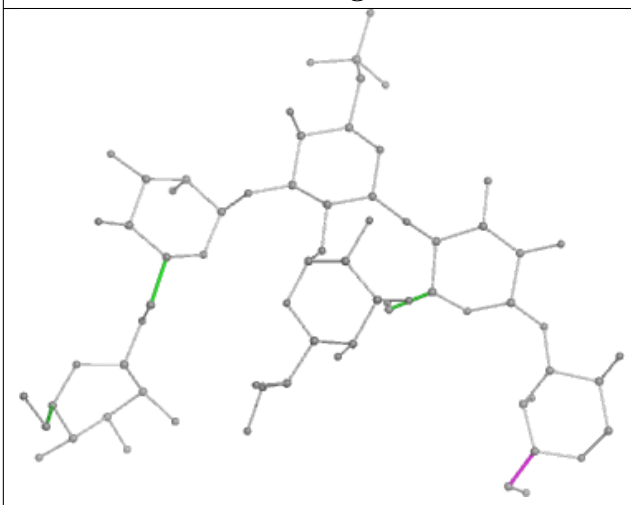
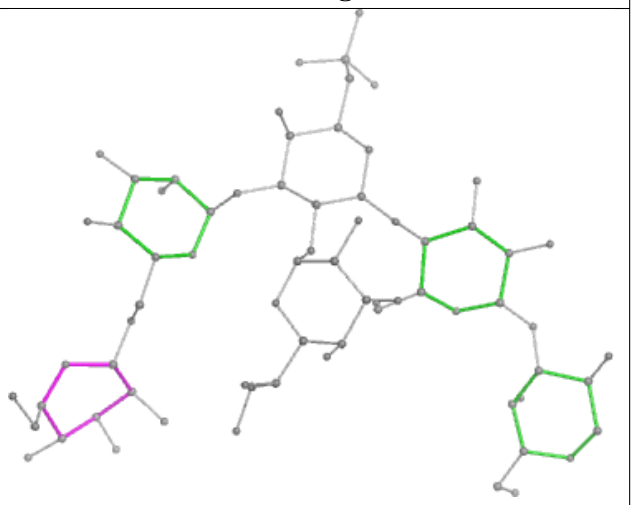
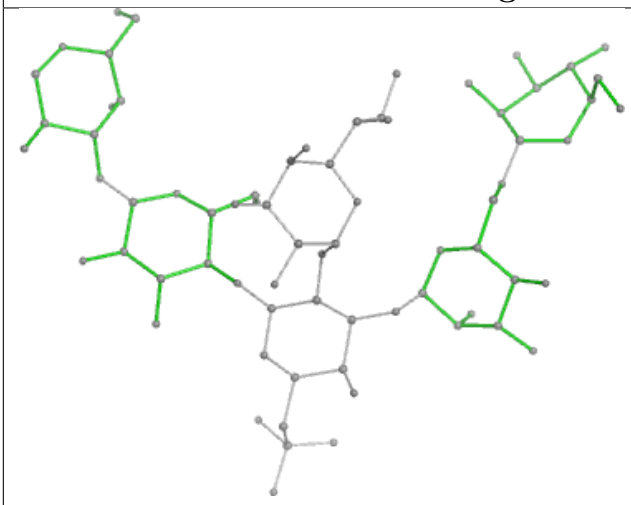


Torsions

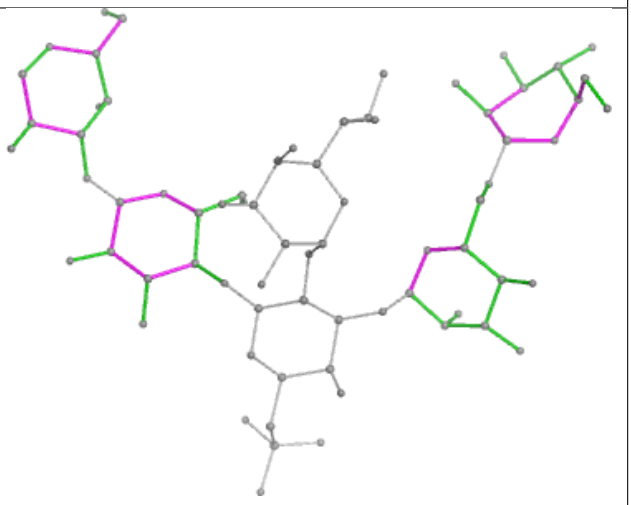


Rings

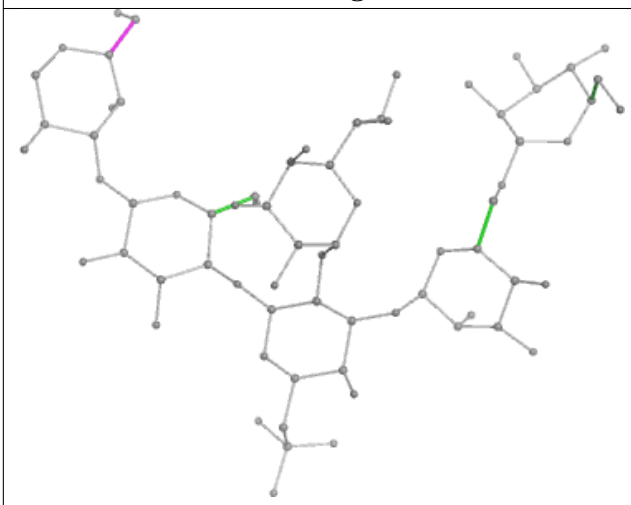
Oligosaccharide Chain 2



Bond lengths



Bond angles



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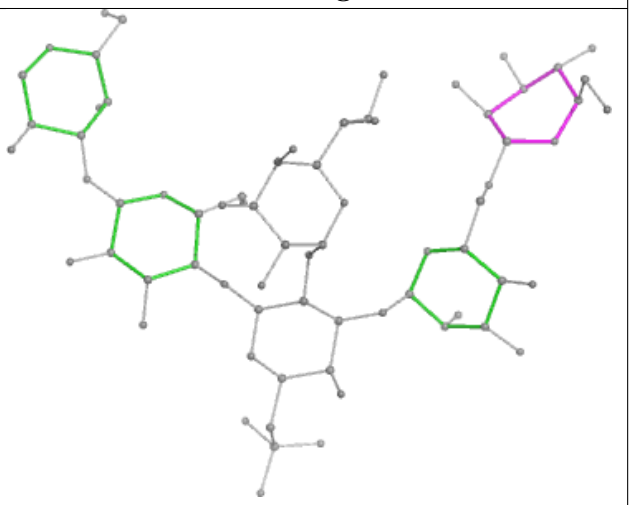
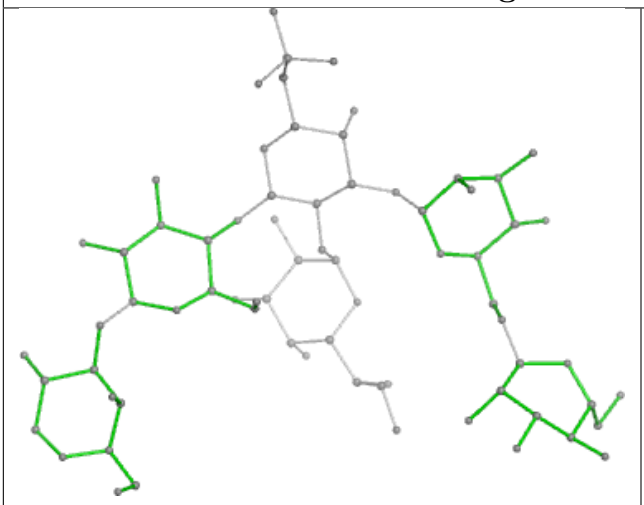


Rings

Oligosaccharide Chain 9



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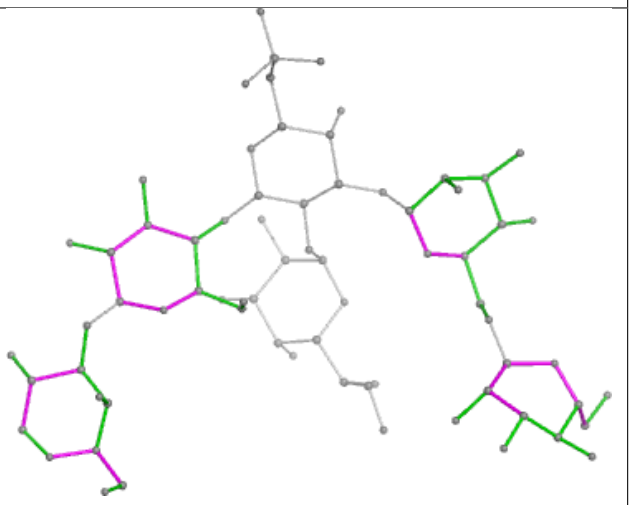

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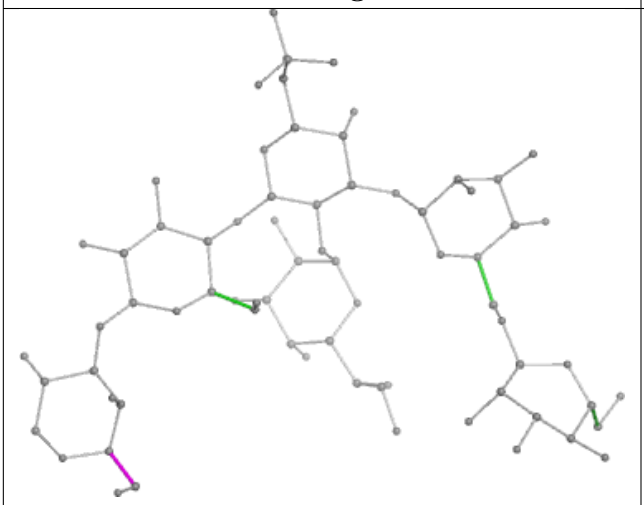

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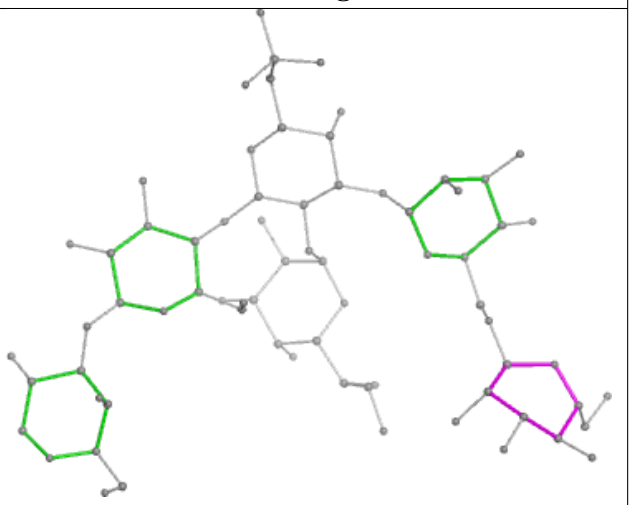
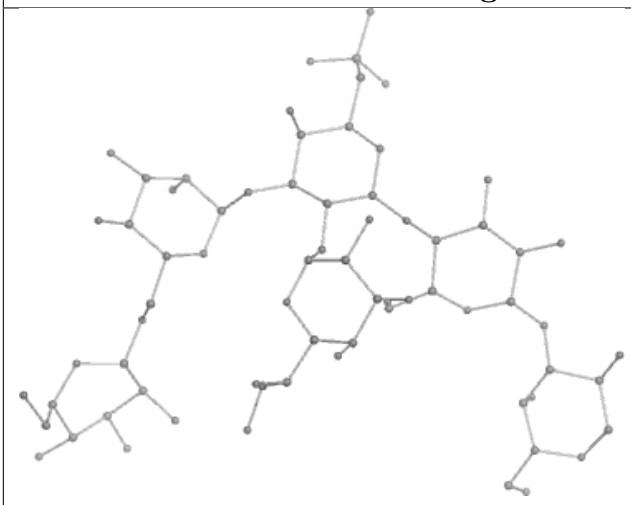


Rings

Oligosaccharide Chain GA



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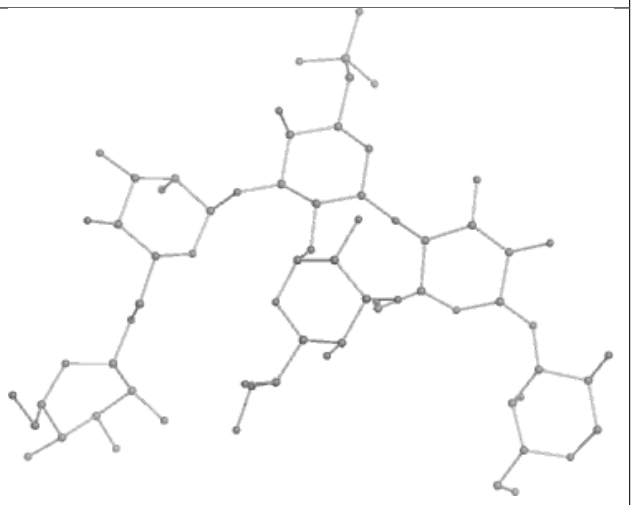

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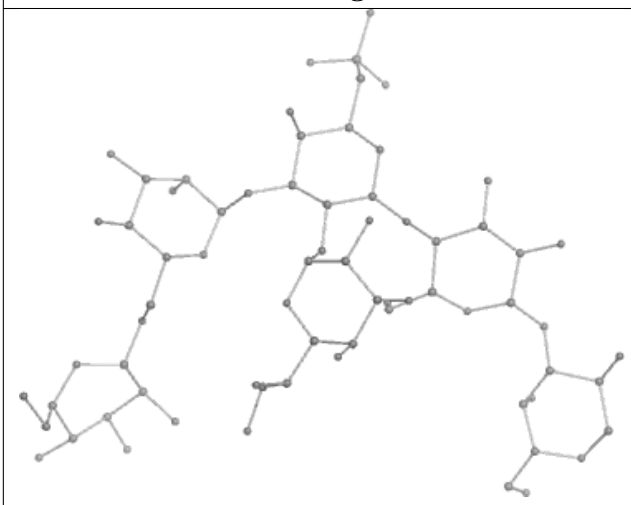

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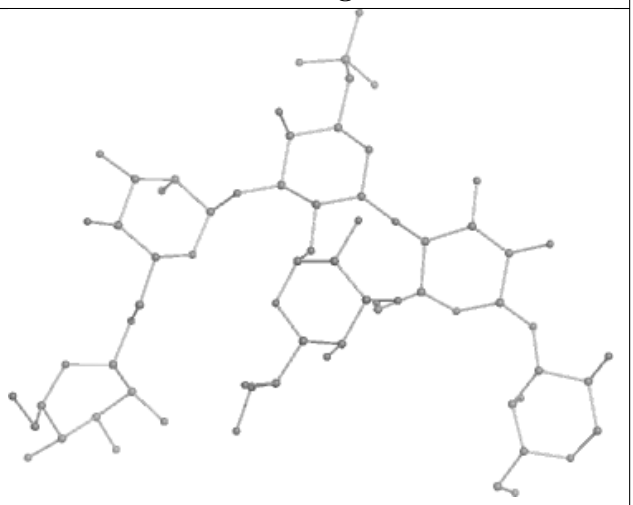
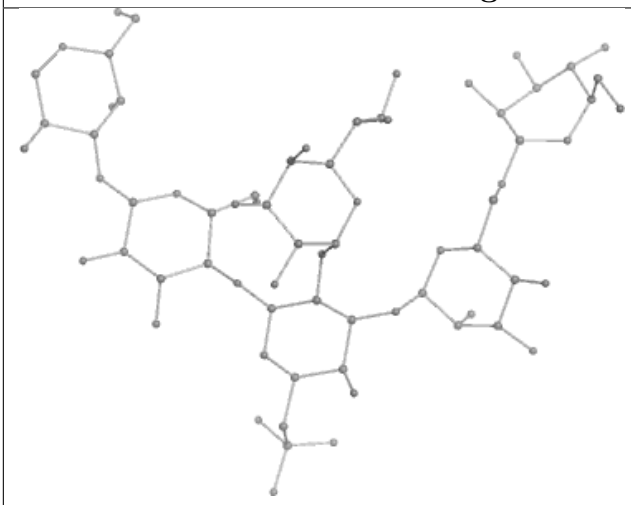
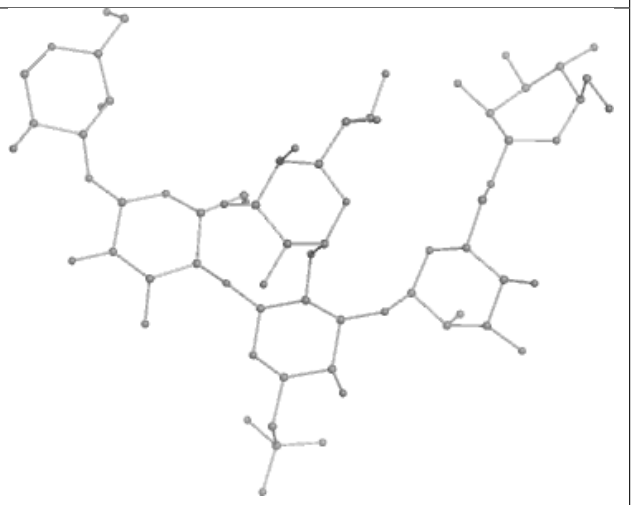


Rings

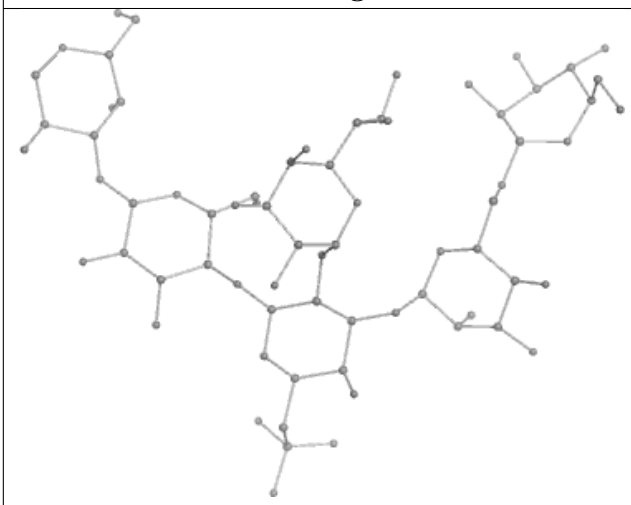
Oligosaccharide Chain NA



Bond lengths



Bond angles



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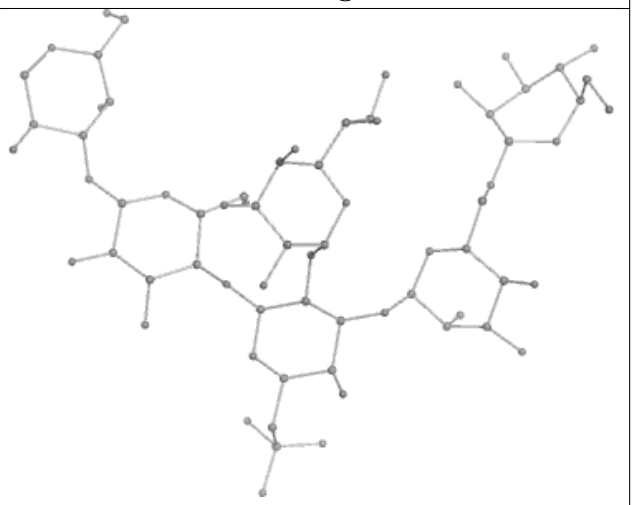
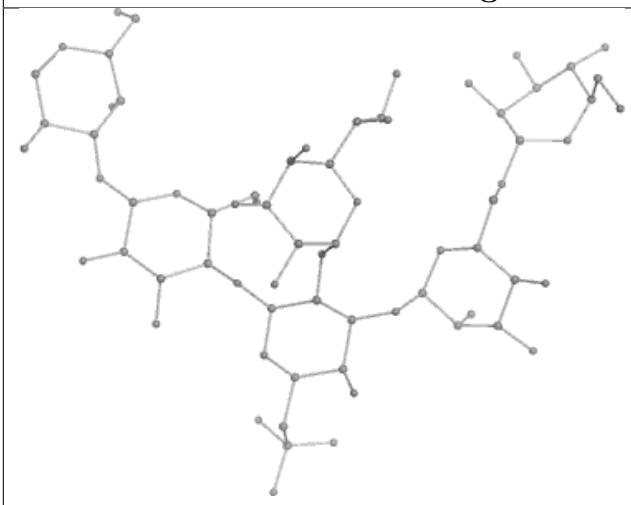


Rings

Oligosaccharide Chain UA



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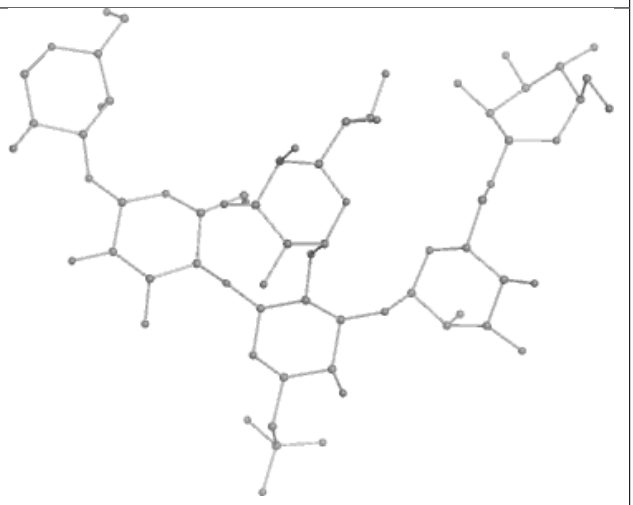

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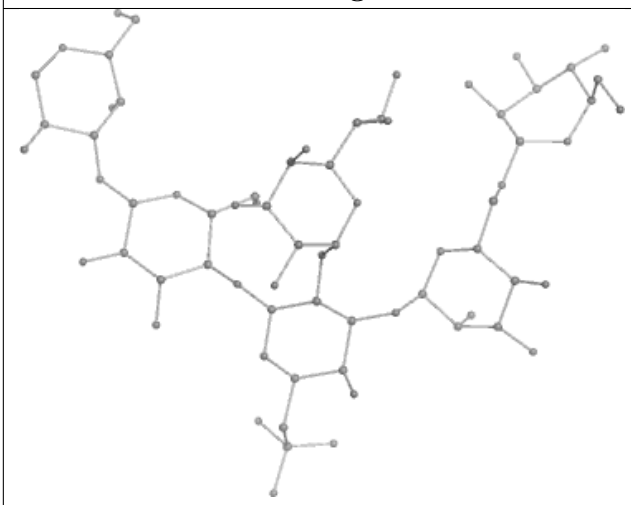

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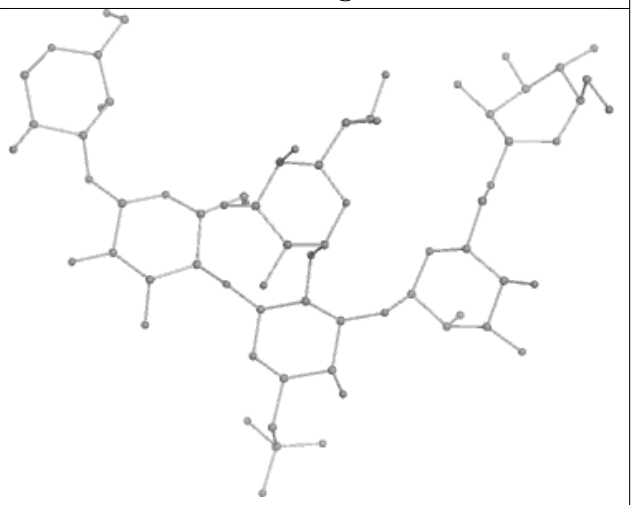
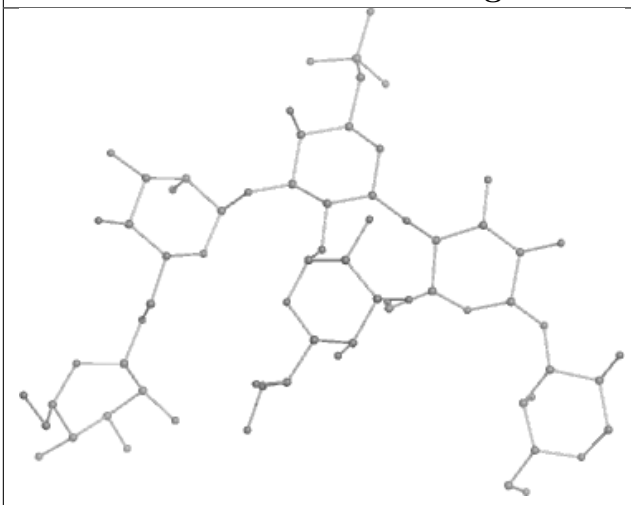
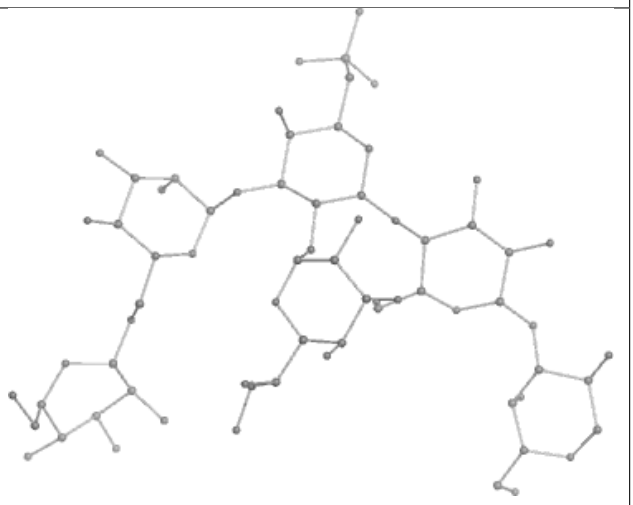


Rings

Oligosaccharide Chain bA



Bond lengths



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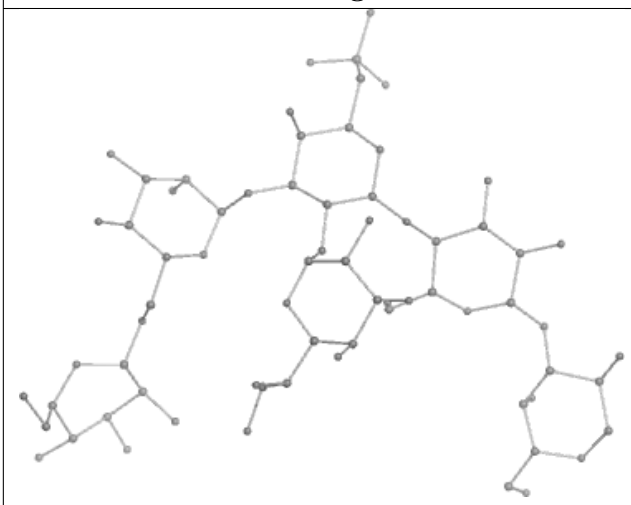

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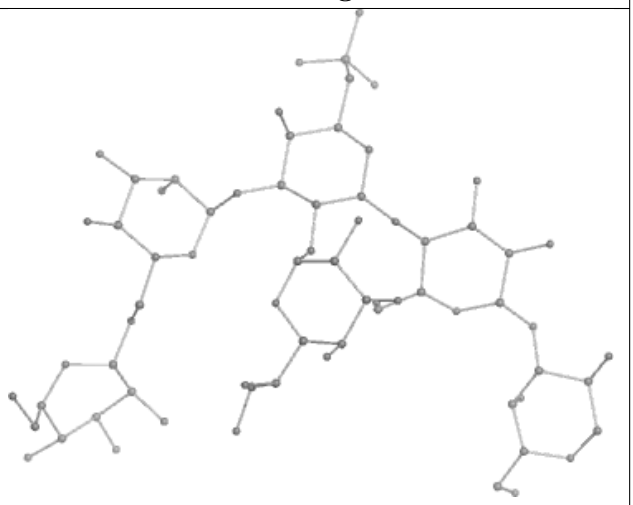
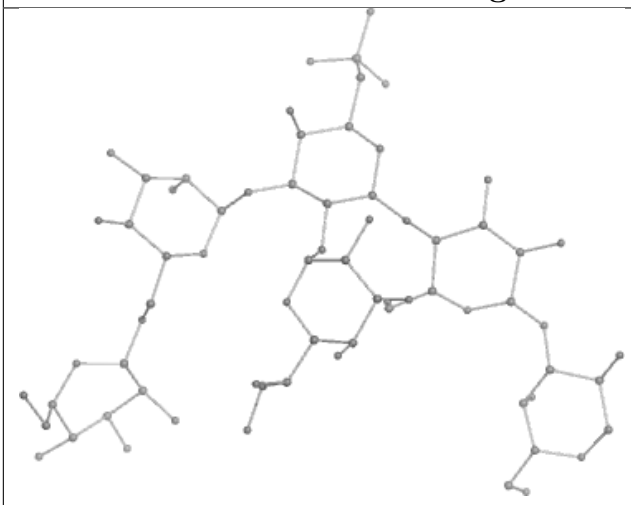


Rings

Oligosaccharide Chain iA



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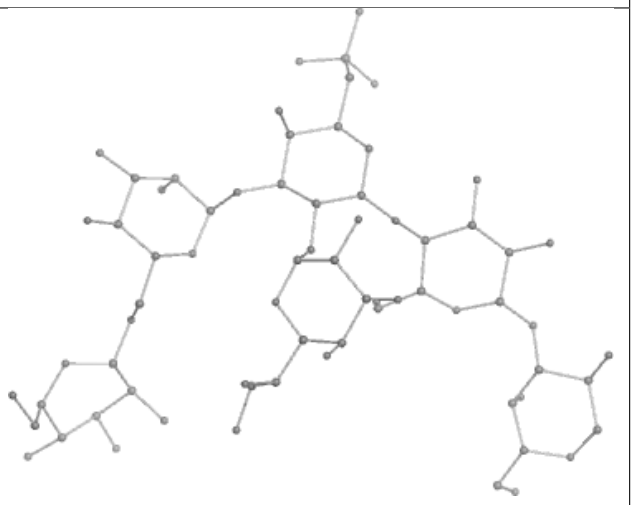

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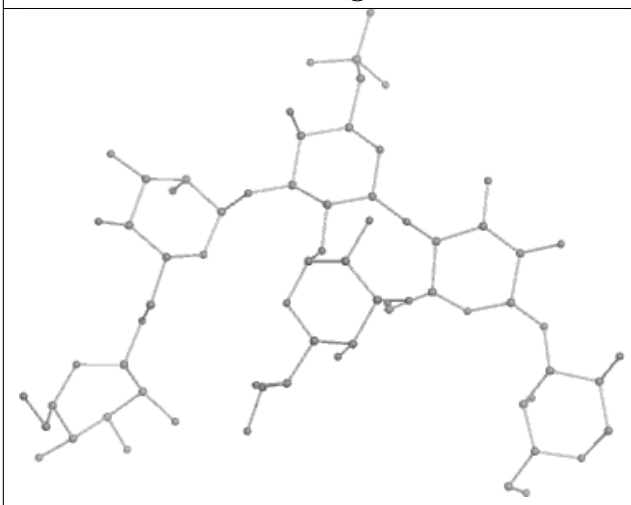

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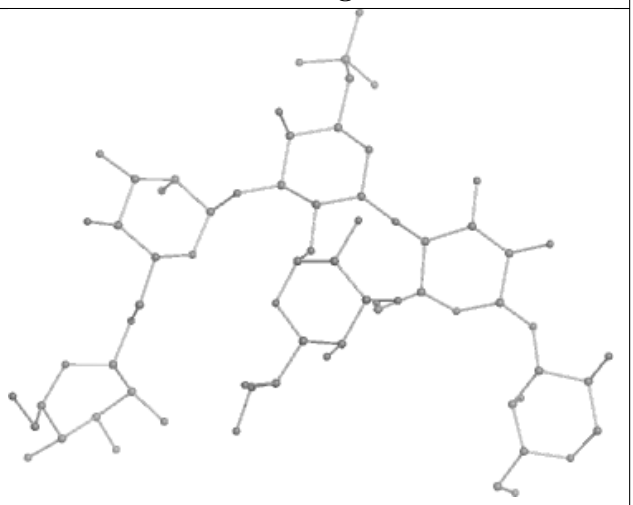
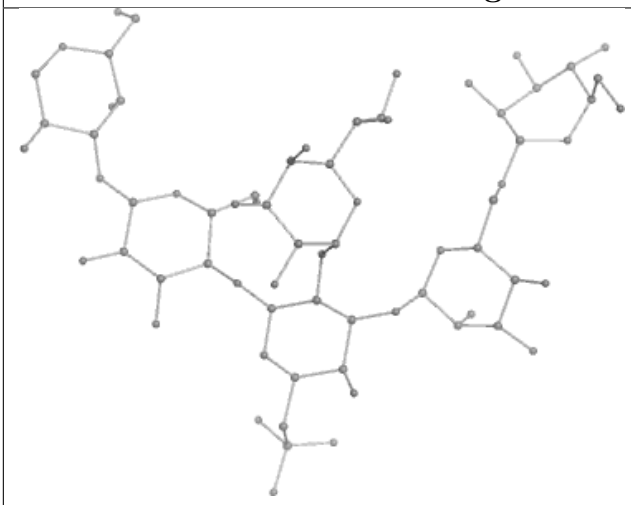
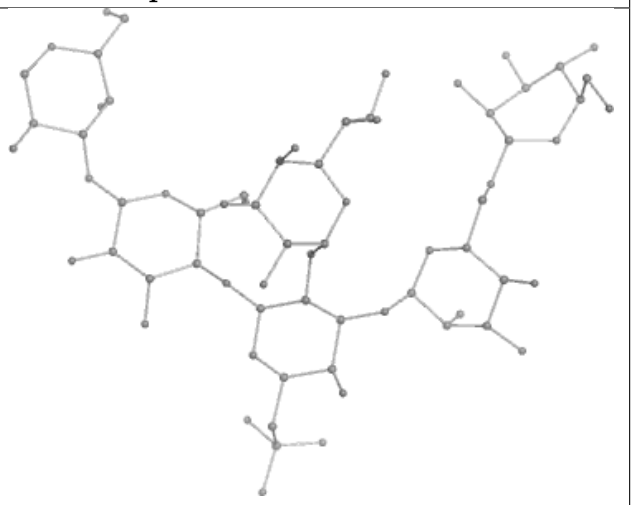


Rings

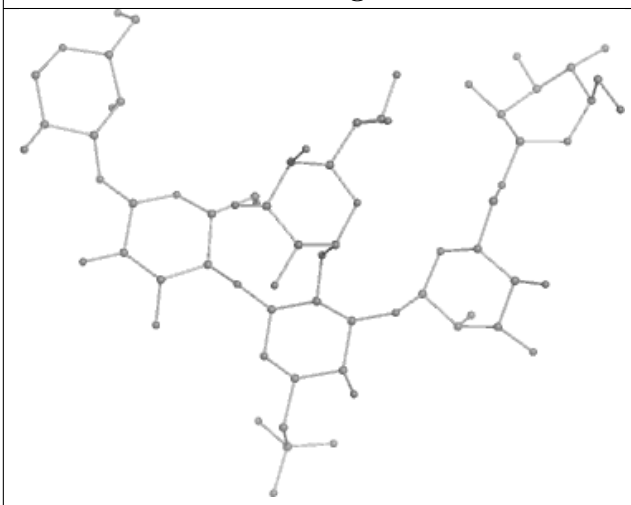
Oligosaccharide Chain pA



Bond lengths



Bond angles



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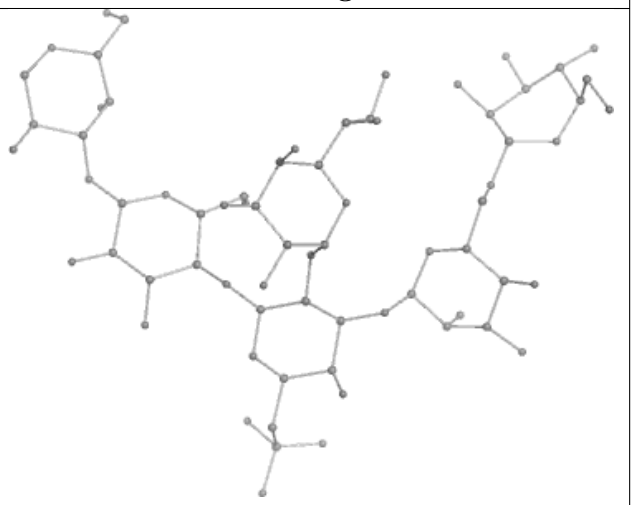
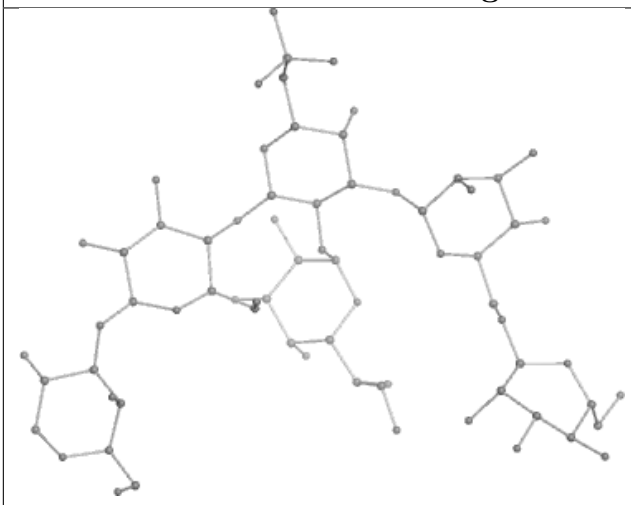
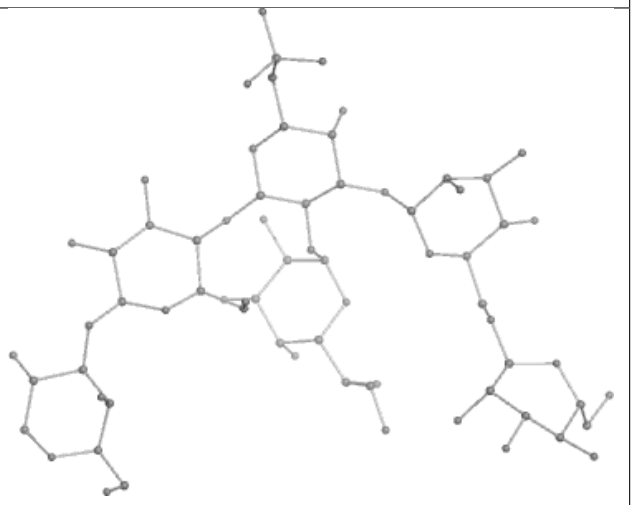


Rings

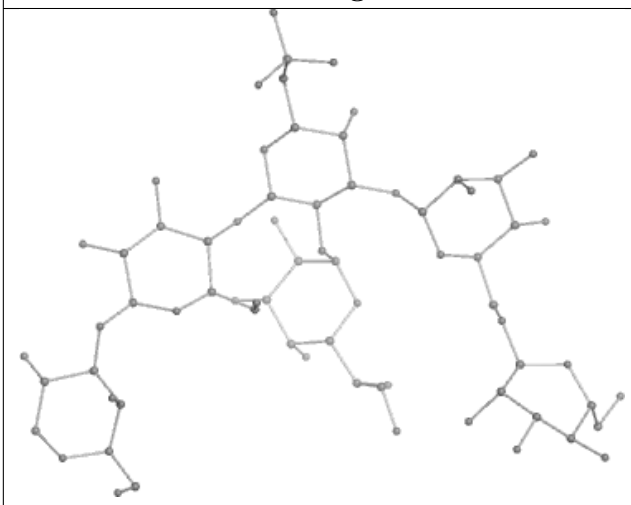
Oligosaccharide Chain wA



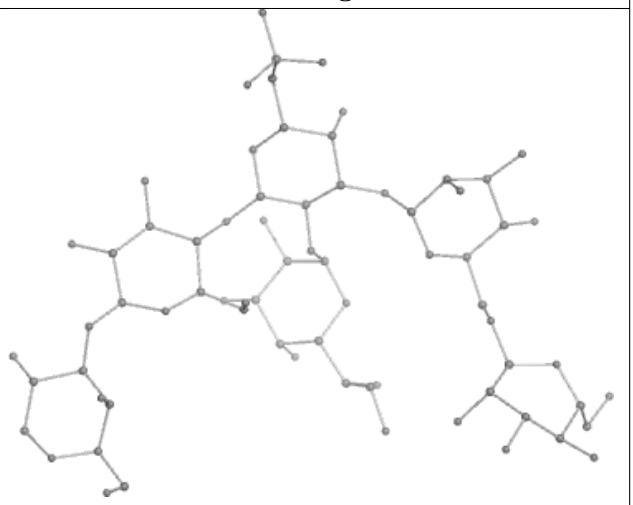
Bond lengths



Bond angles

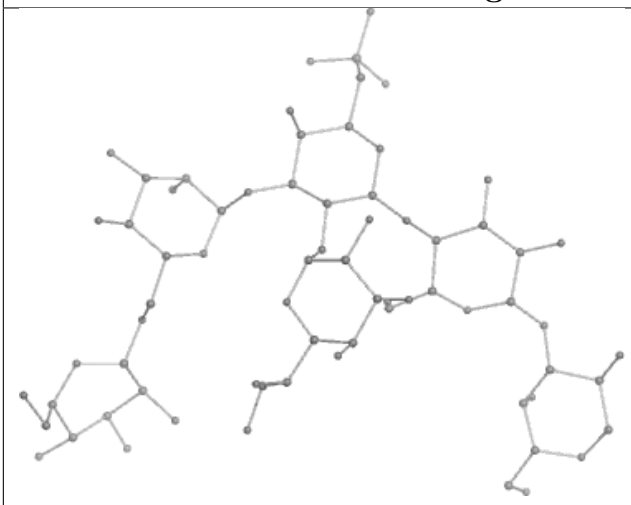


Torsions

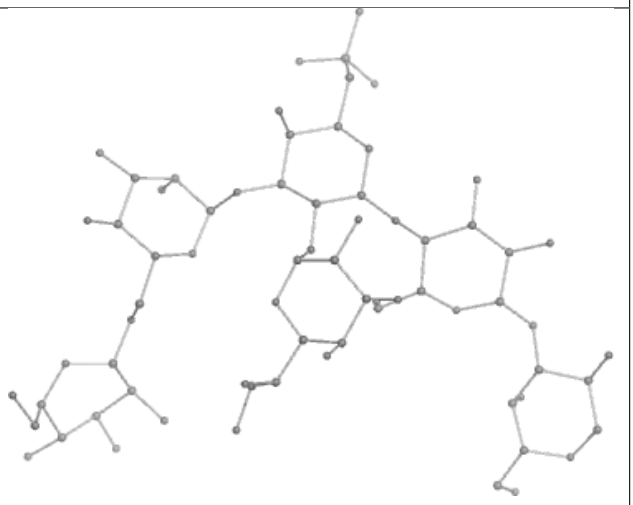


Rings

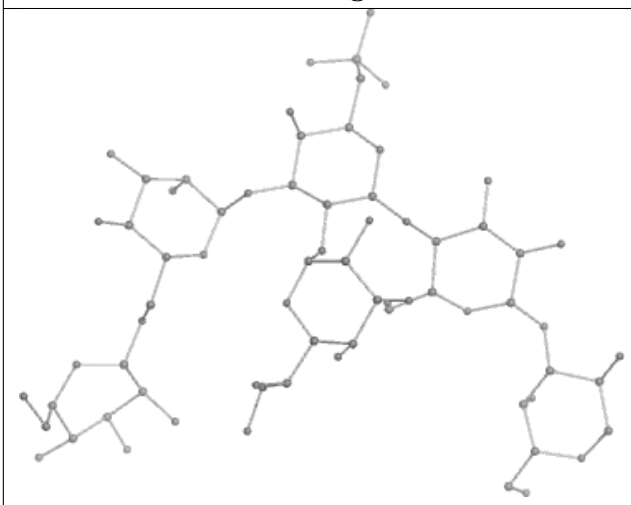
Oligosaccharide Chain 3A



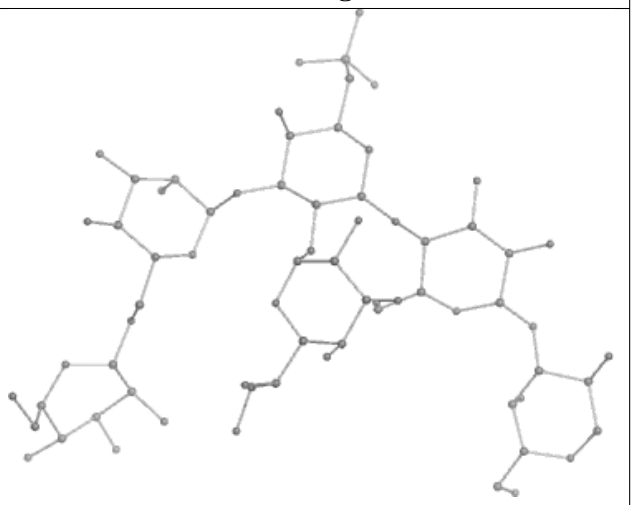
Bond lengths



Bond angles

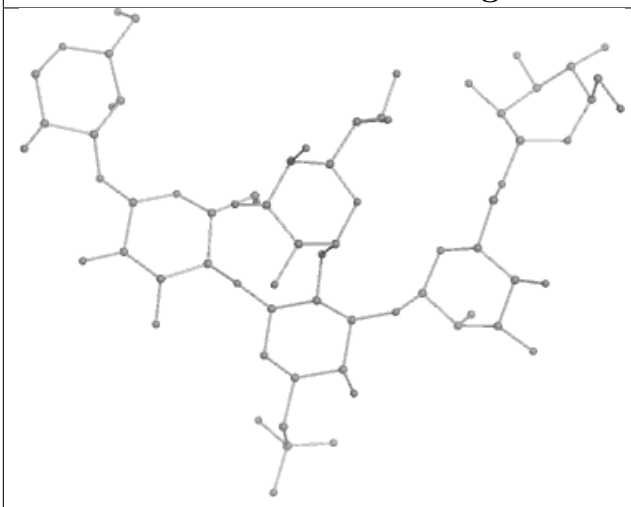


Torsions



Rings

Oligosaccharide Chain AB



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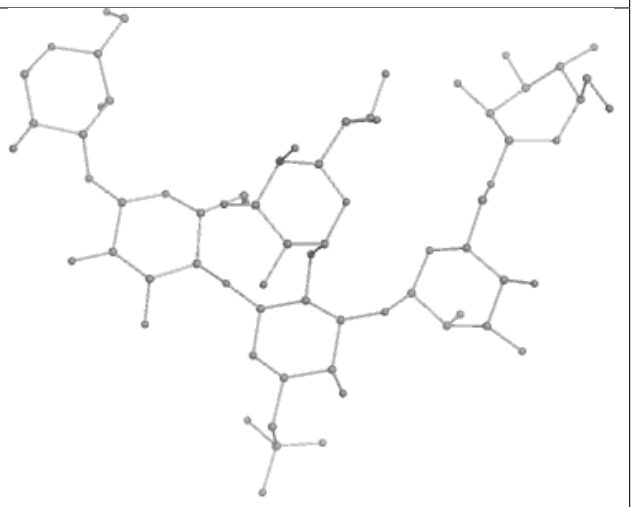
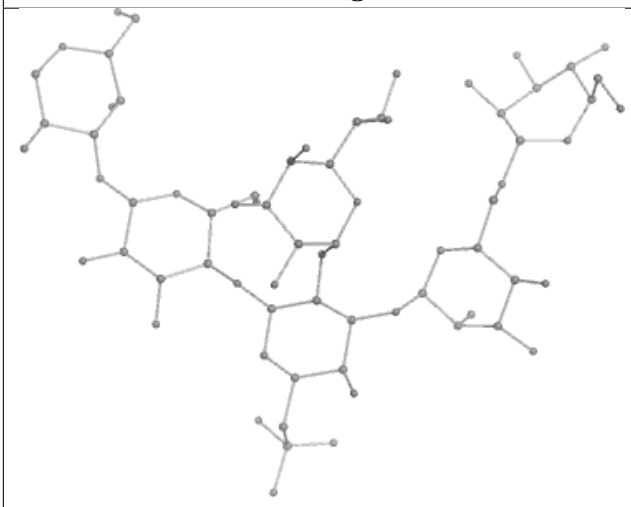


Bond angles



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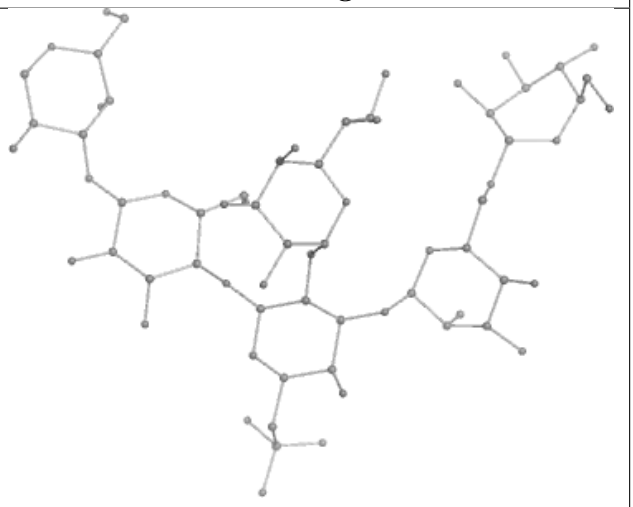
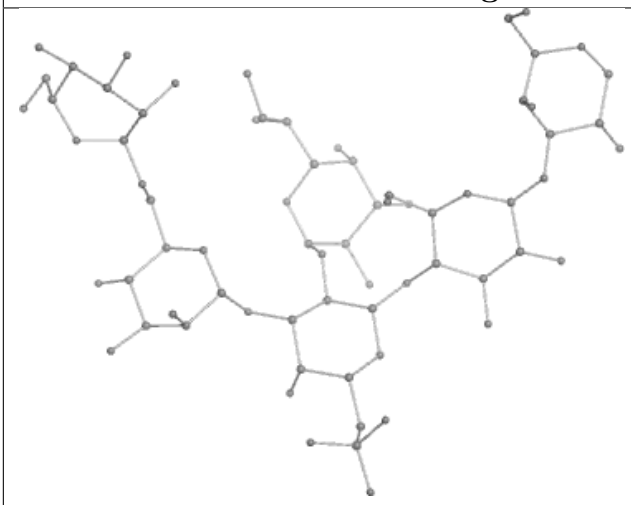


Rings

Oligosaccharide Chain HB



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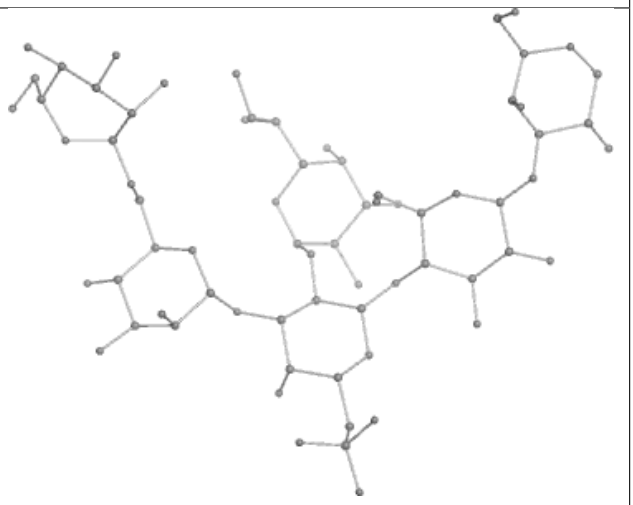
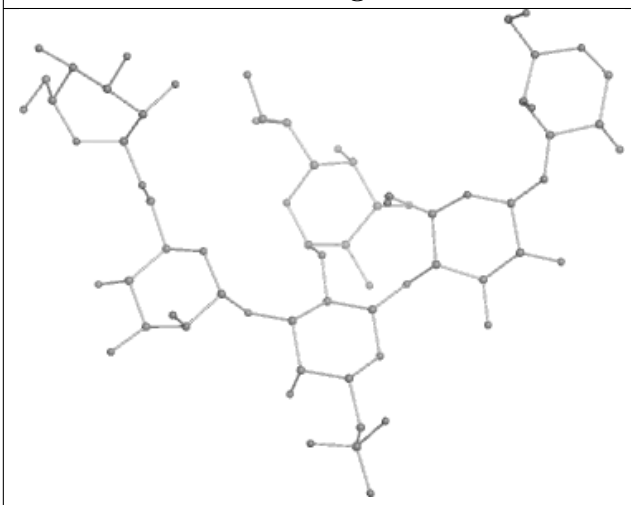


Bond angles



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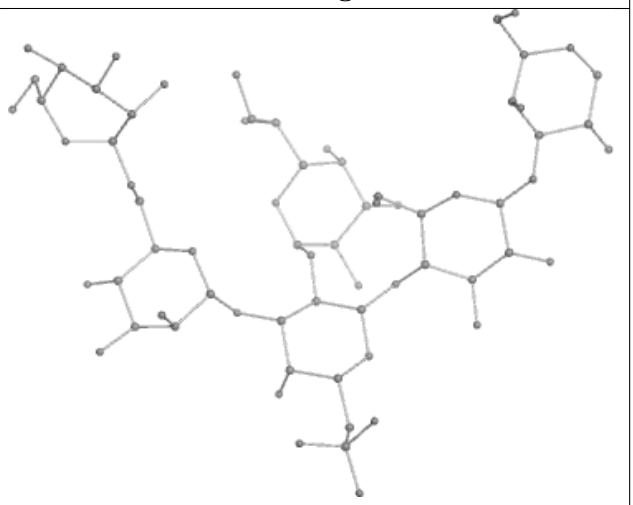
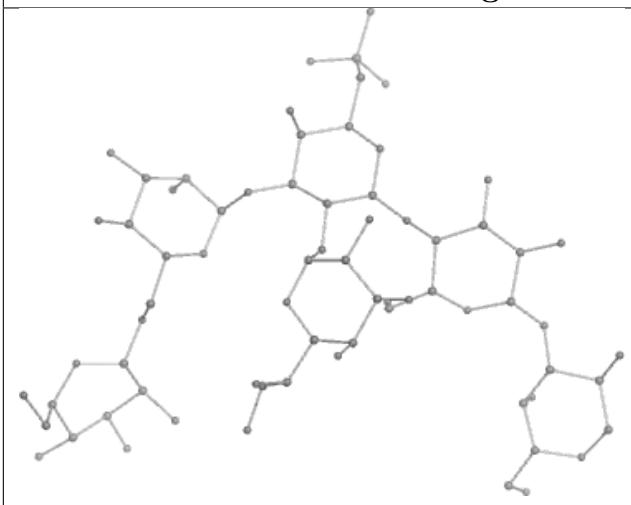


Rings

Oligosaccharide Chain OB



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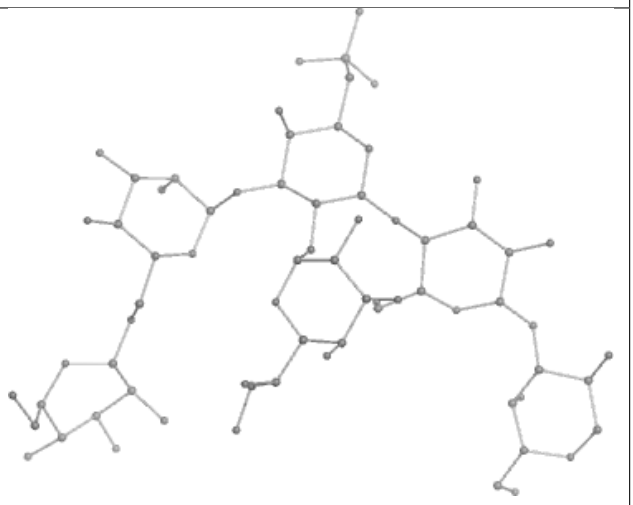
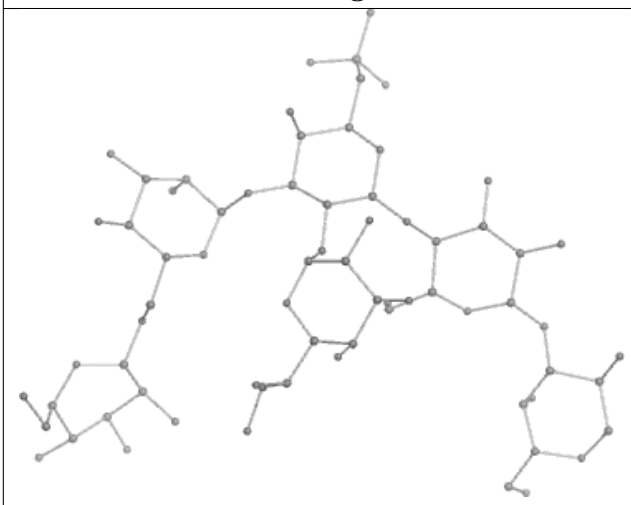


Bond angles



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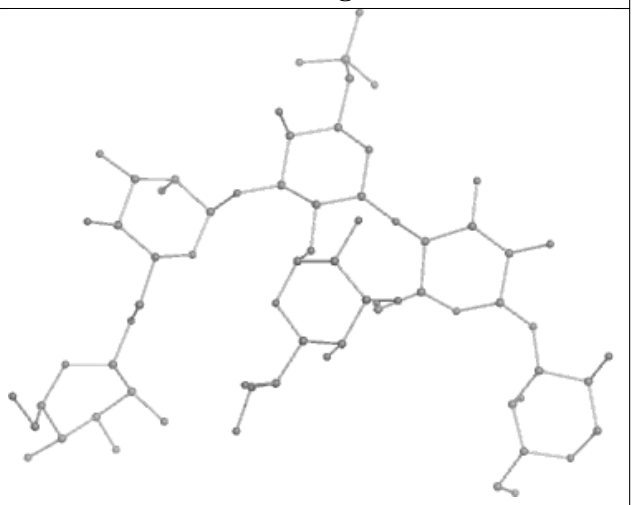
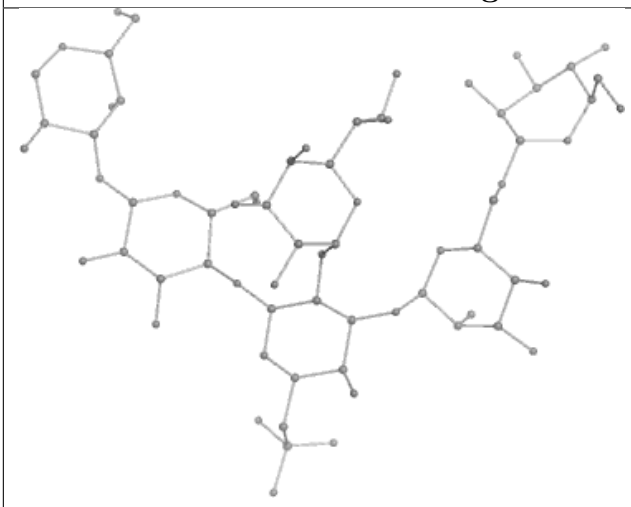


Rings

Oligosaccharide Chain VB



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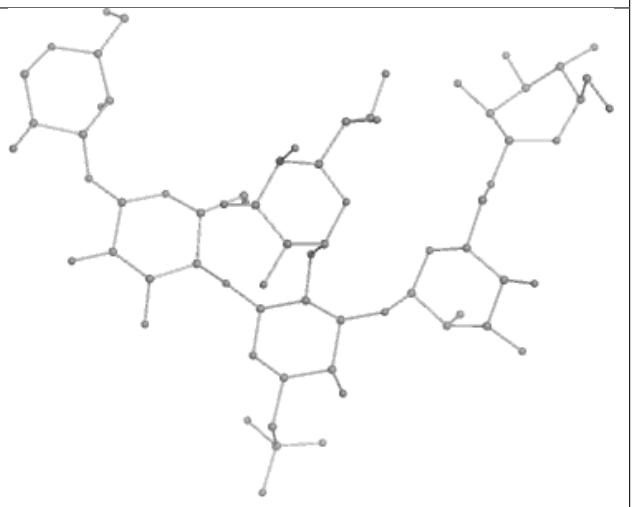
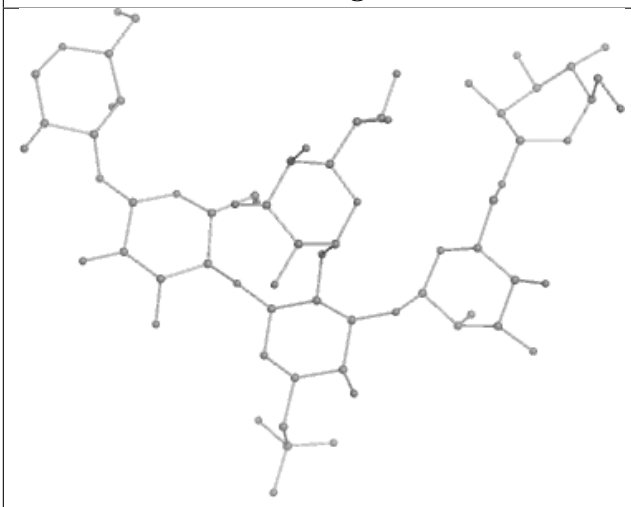


Bond angles



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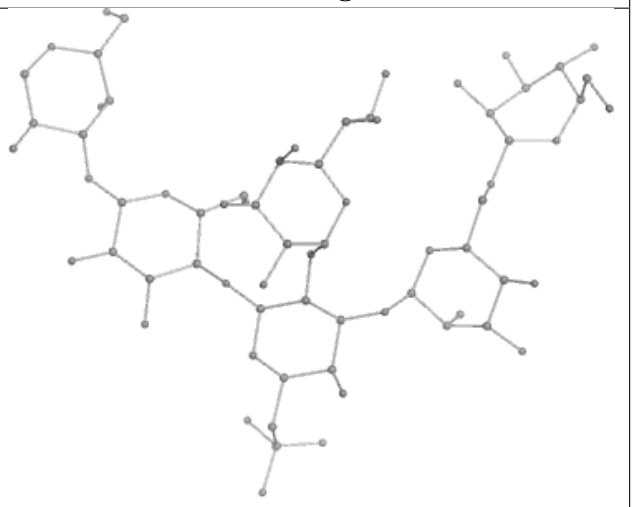
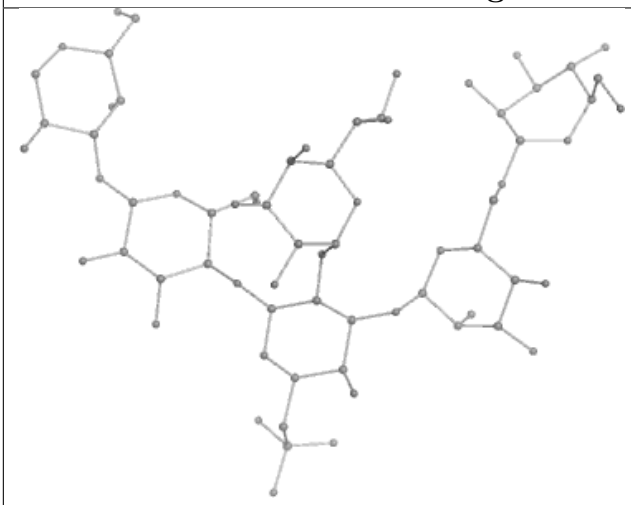


Rings

Oligosaccharide Chain cB



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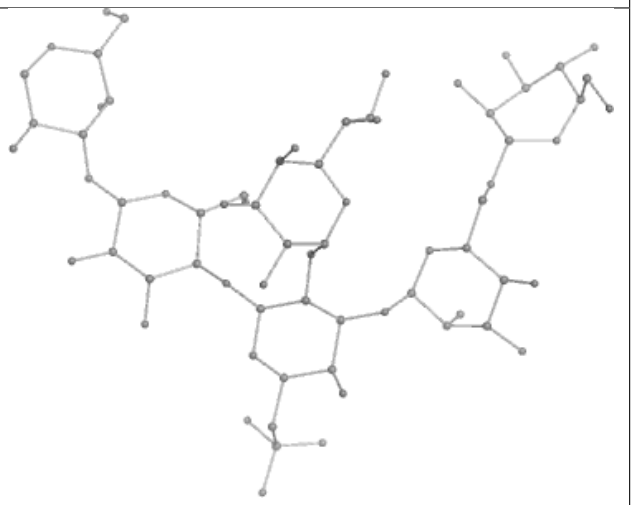
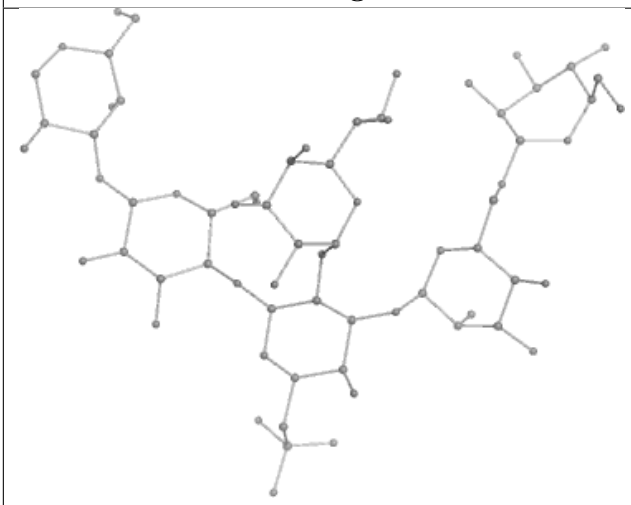


Bond angles



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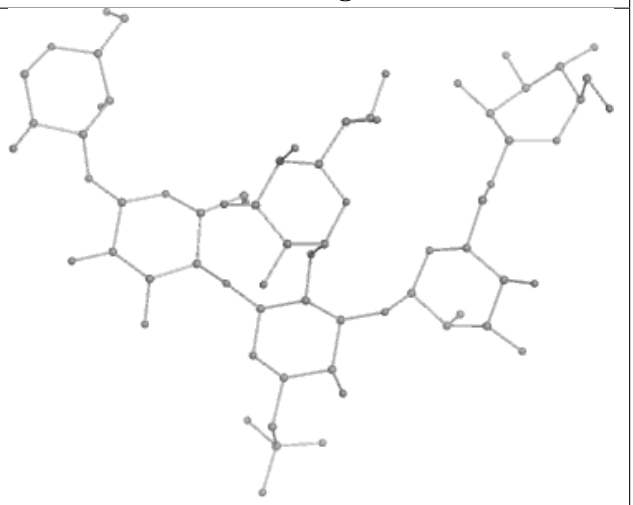
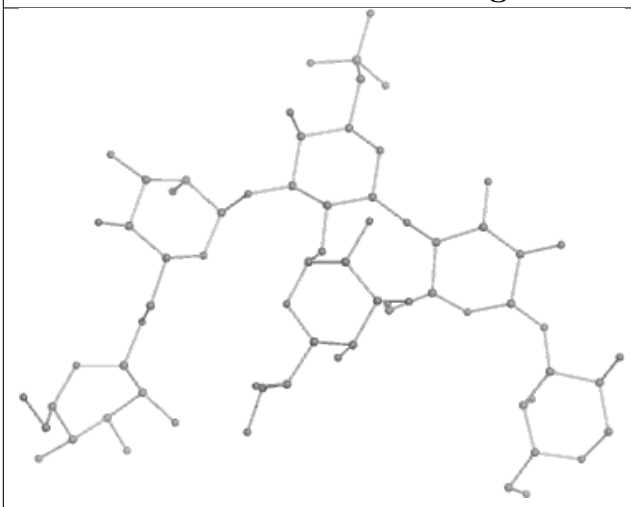


Rings

Oligosaccharide Chain jB



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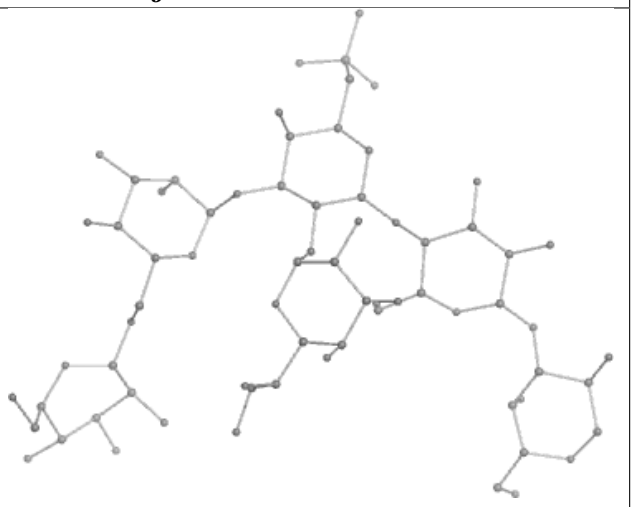
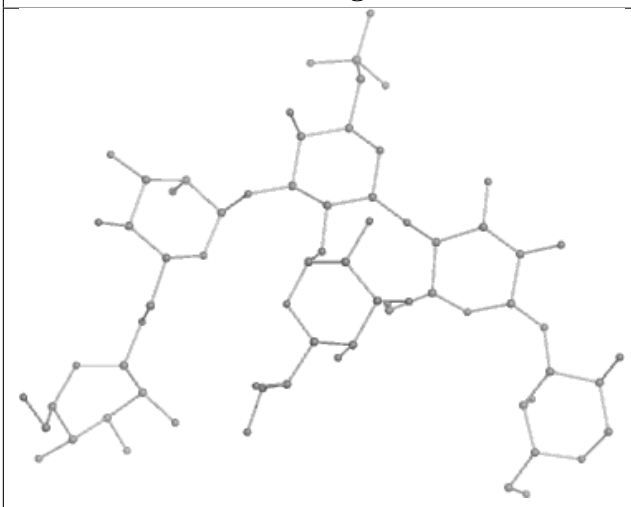


Bond angles



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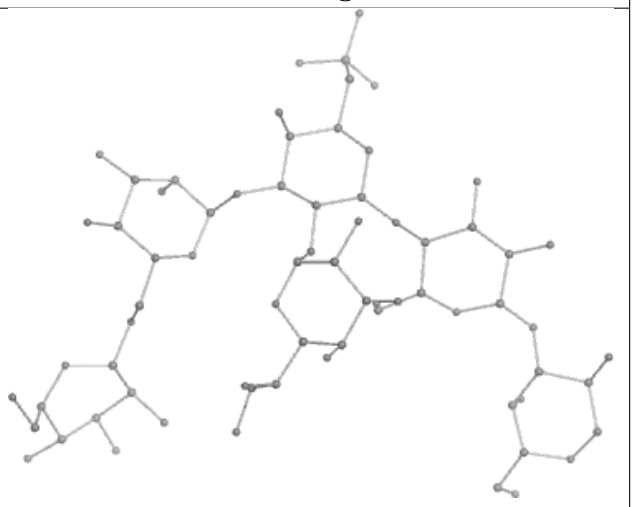
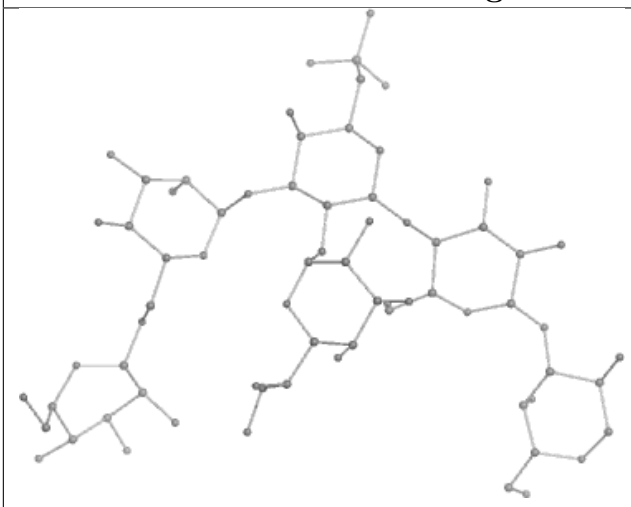


Rings

Oligosaccharide Chain qB



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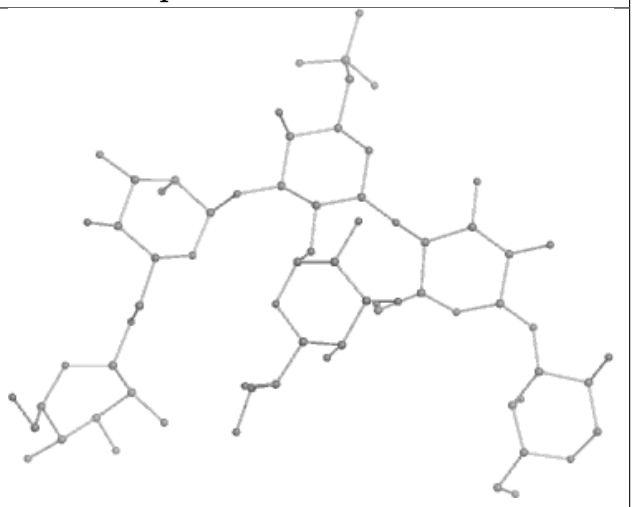
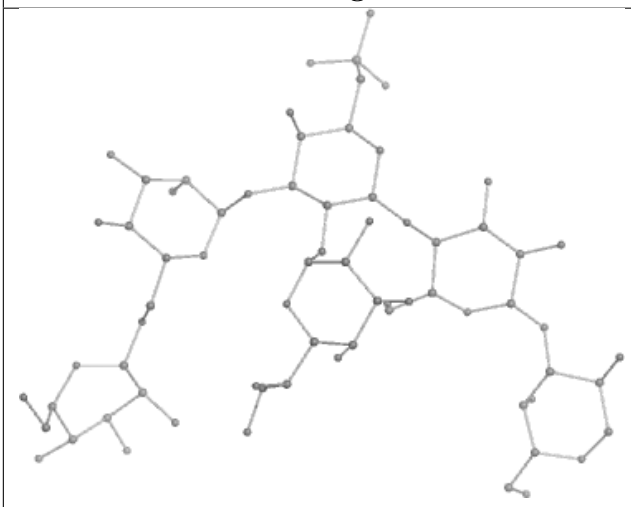


Bond angles



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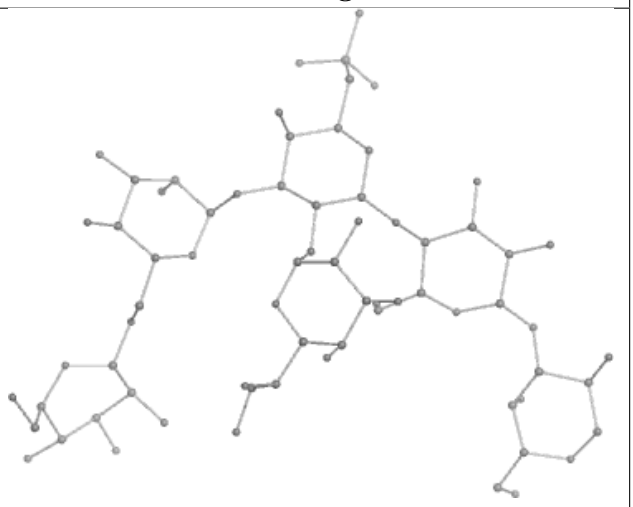
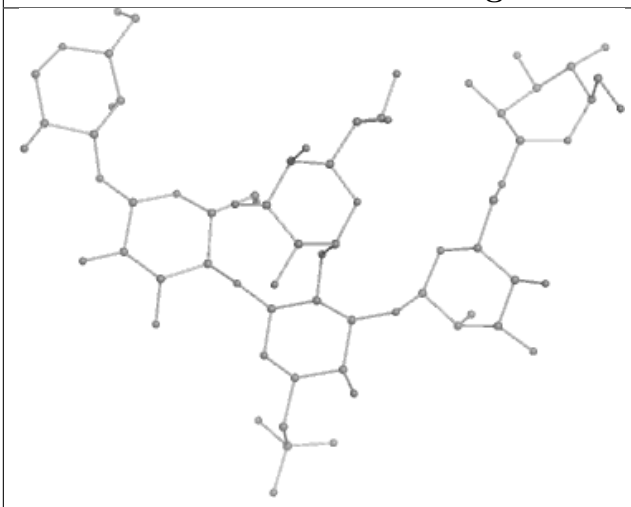
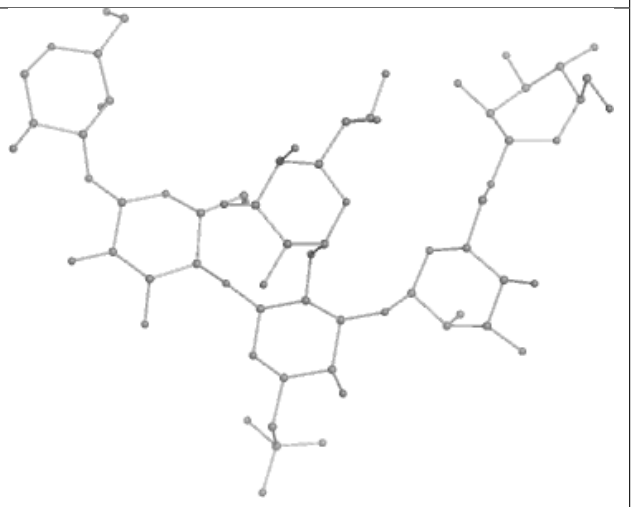


Rings

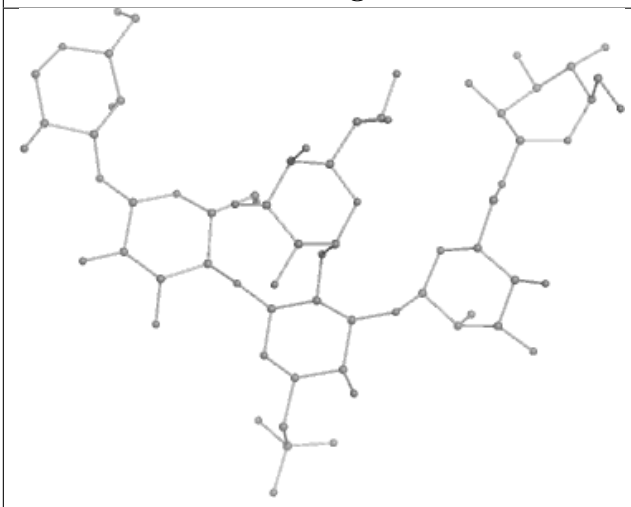
Oligosaccharide Chain xB



Bond lengths



Bond angles



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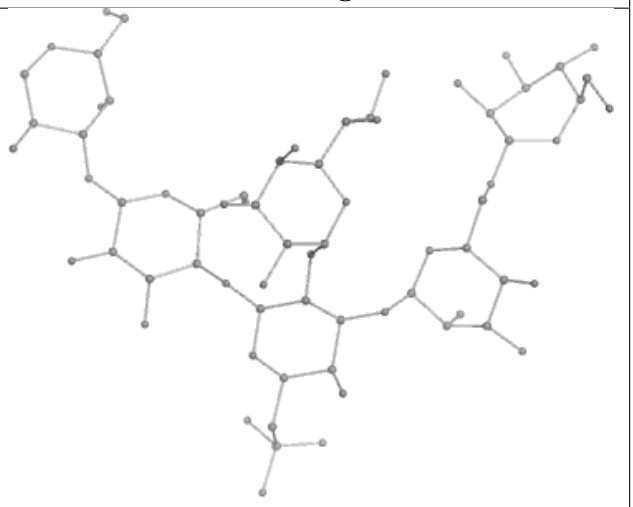
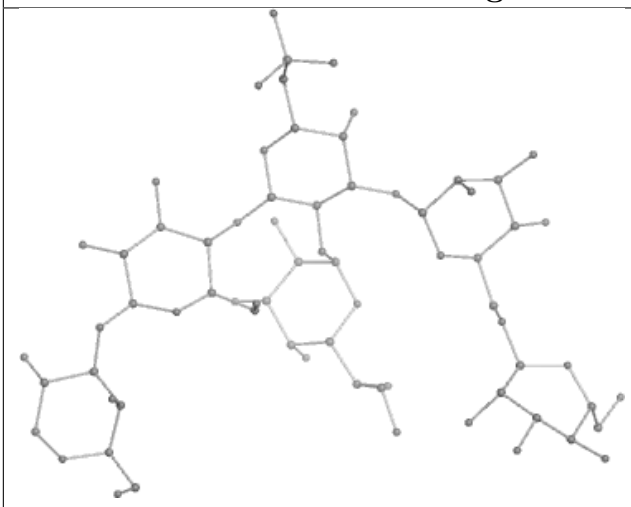


Rings

Oligosaccharide Chain 4B



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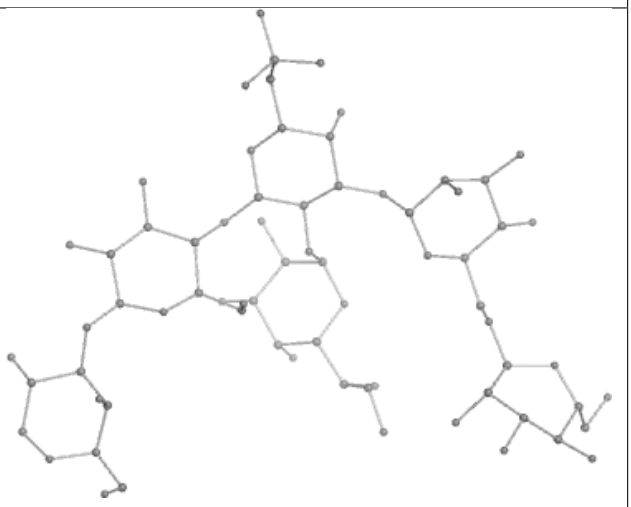

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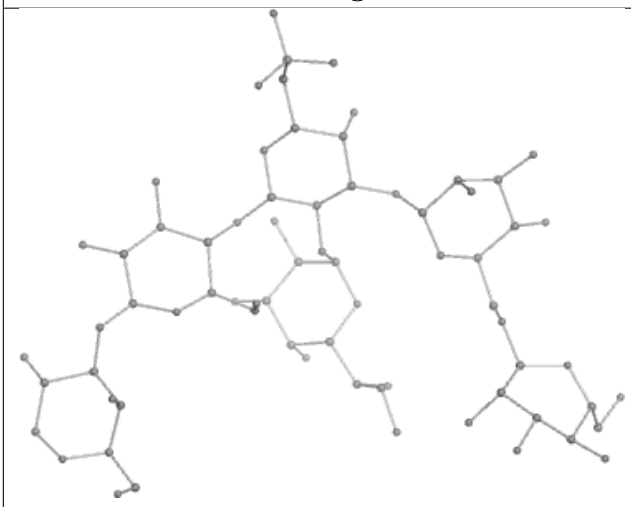

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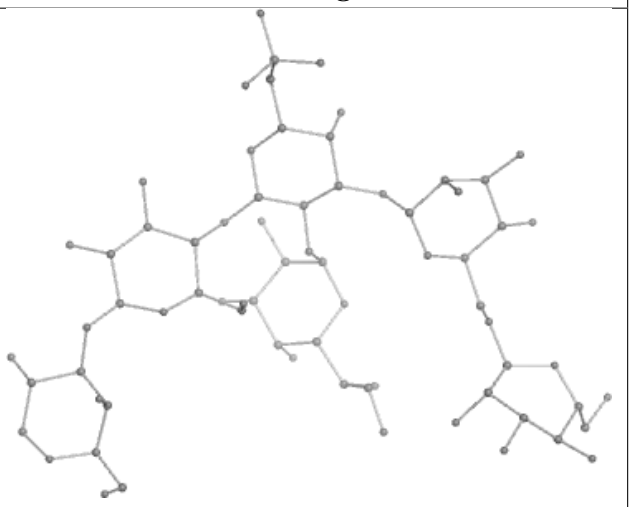
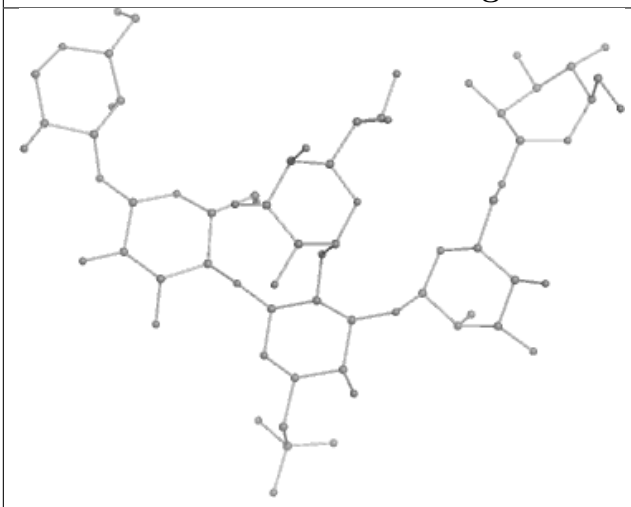


Rings

Oligosaccharide Chain BC



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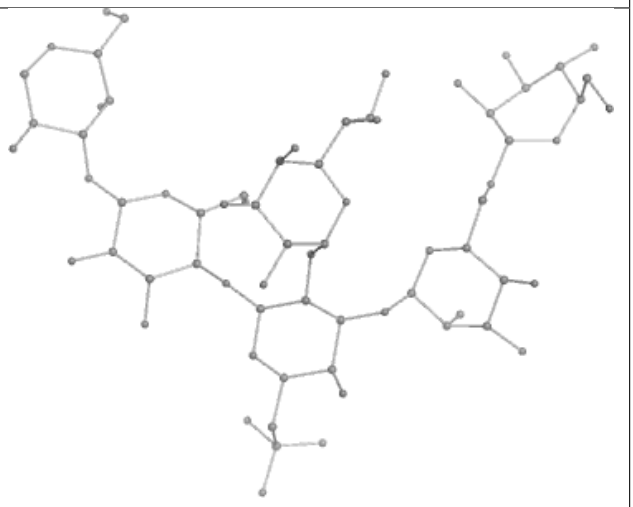
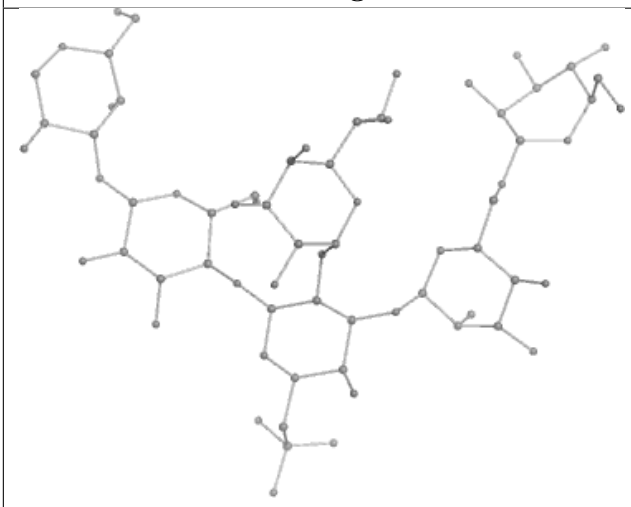


Bond angles



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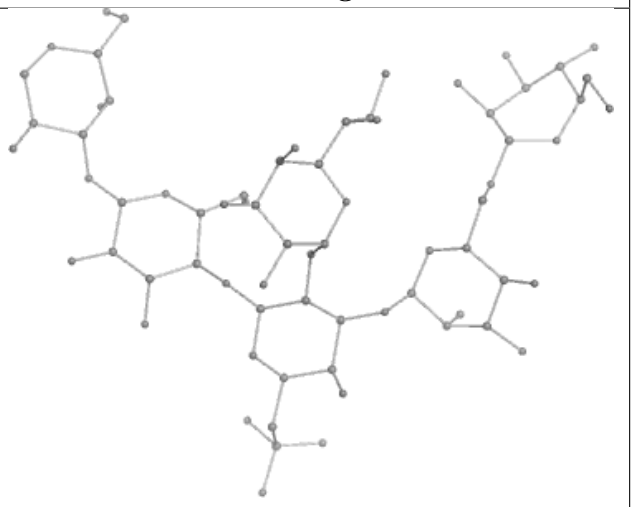
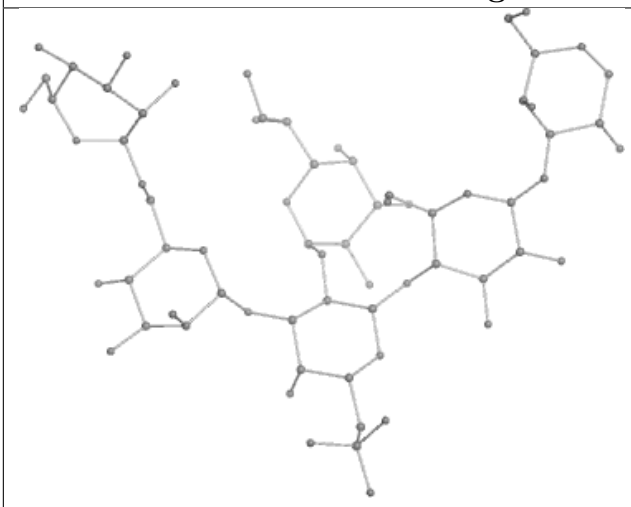


Rings

Oligosaccharide Chain IC



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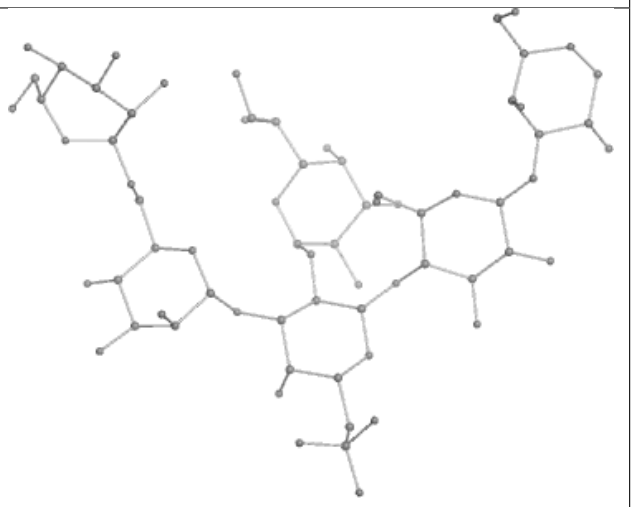
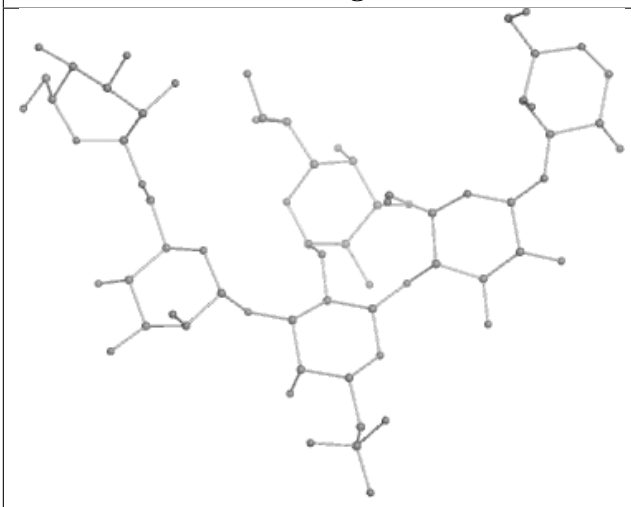
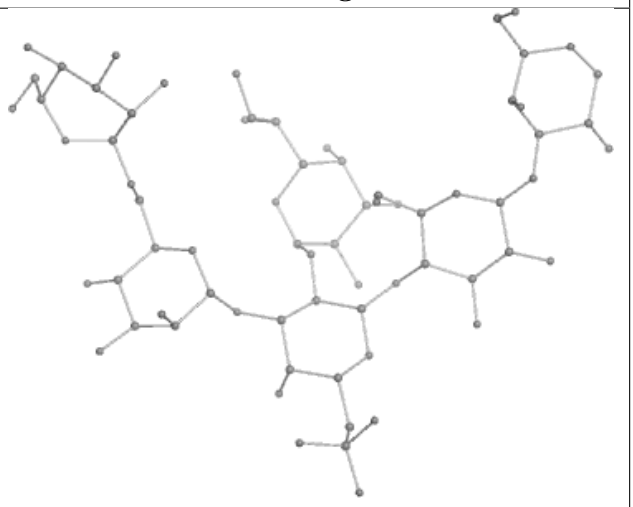


Bond angles

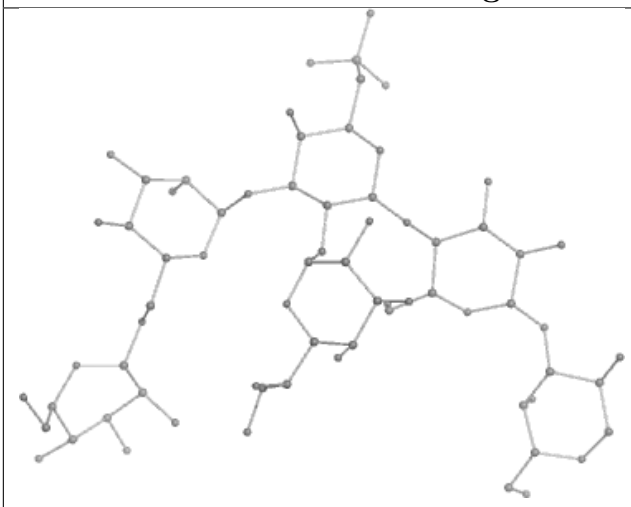


Torsions

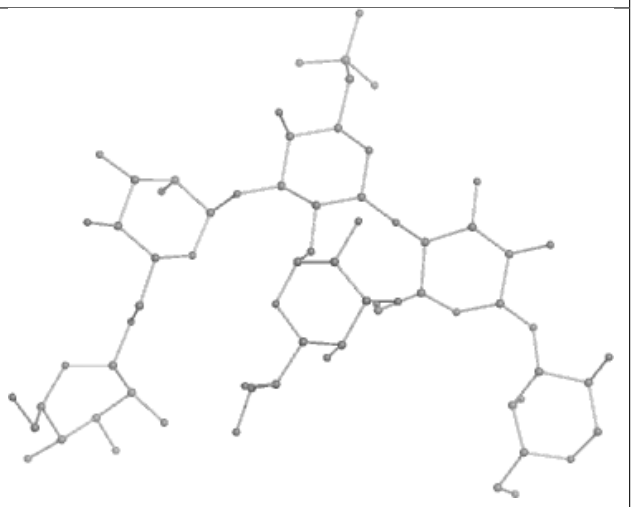


Rings

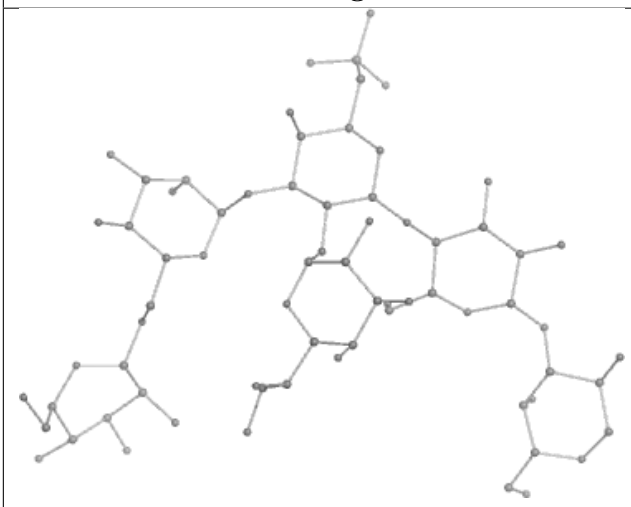
Oligosaccharide Chain PC



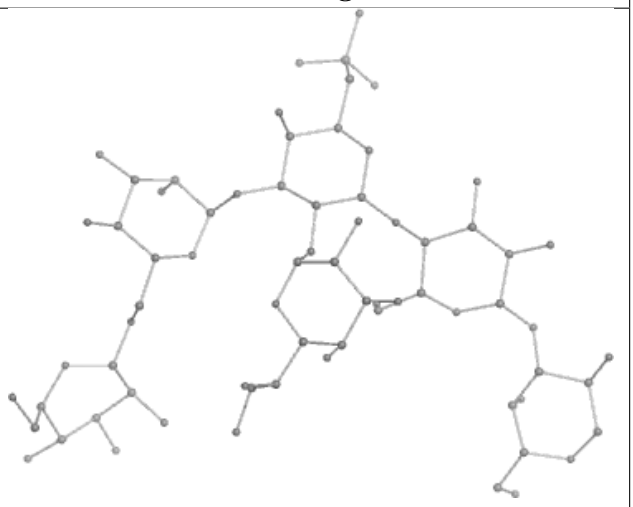
Bond lengths



Bond angles

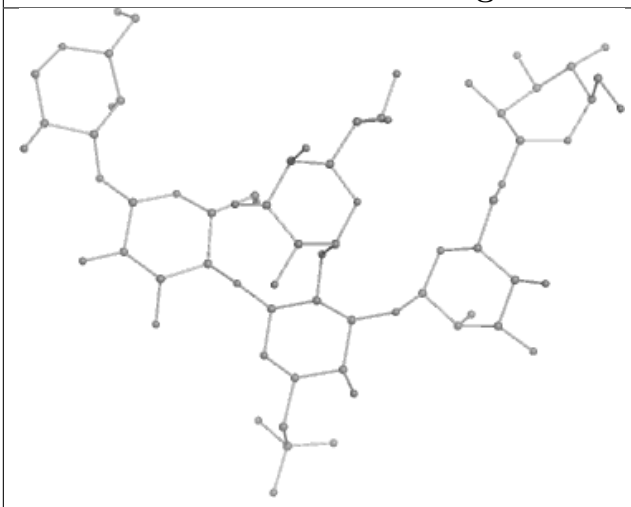


Torsions

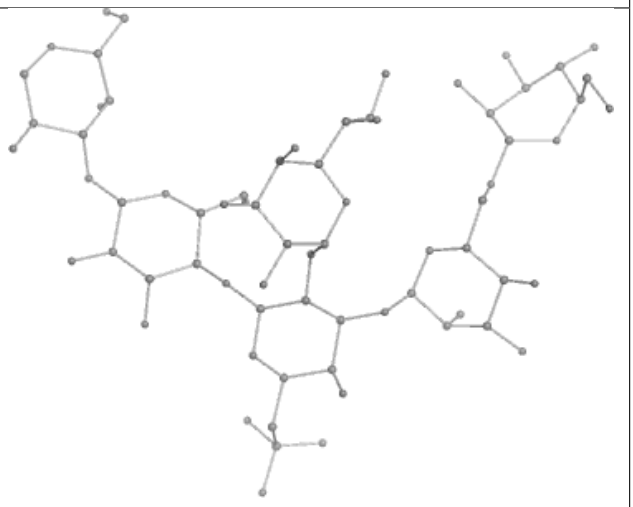


Rings

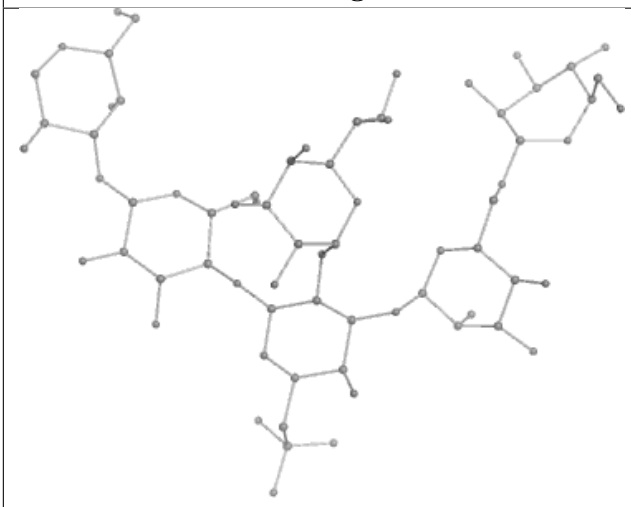
Oligosaccharide Chain WC



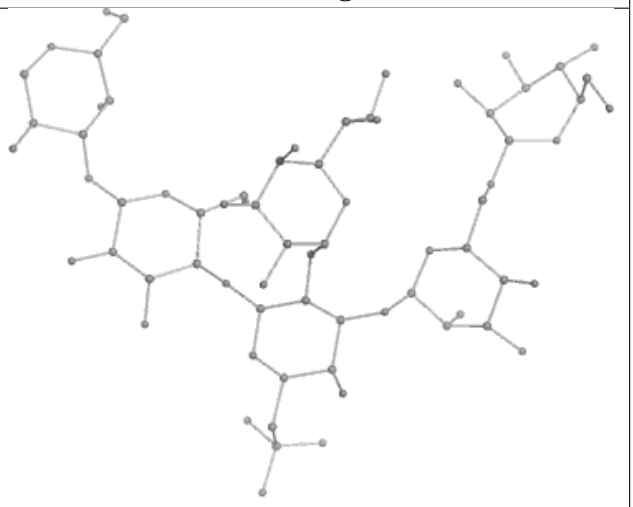
Bond lengths



Bond angles

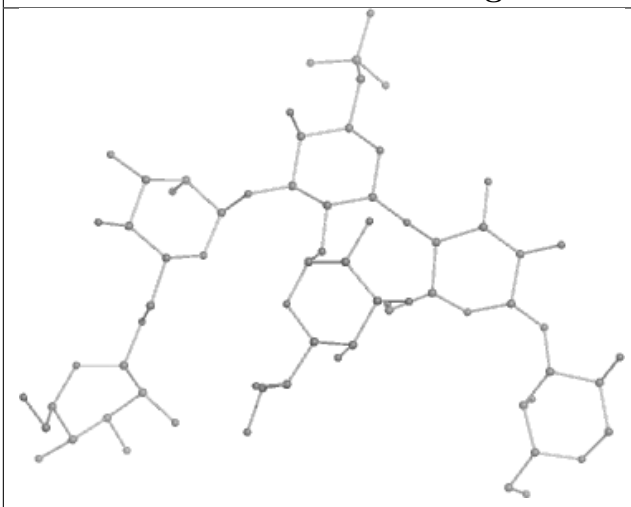


Torsions

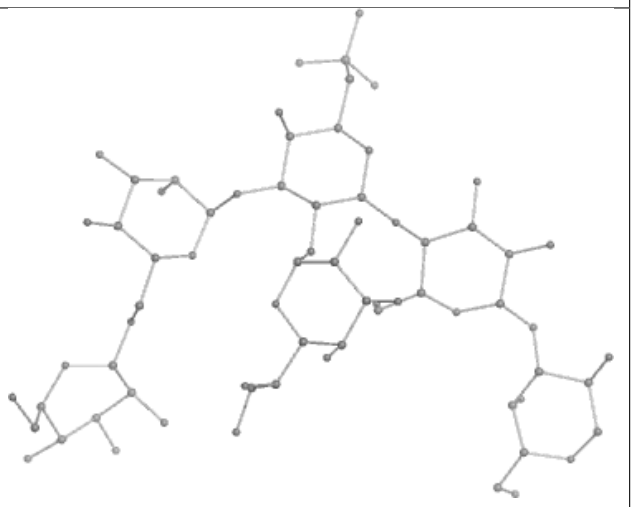


Rings

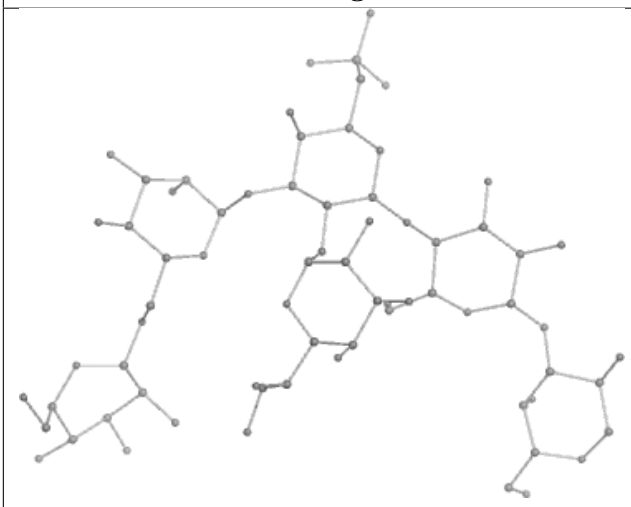
Oligosaccharide Chain dC



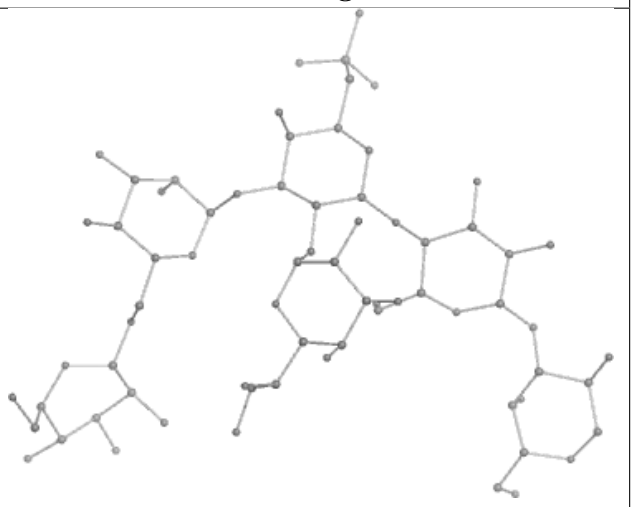
Bond lengths



Bond angles

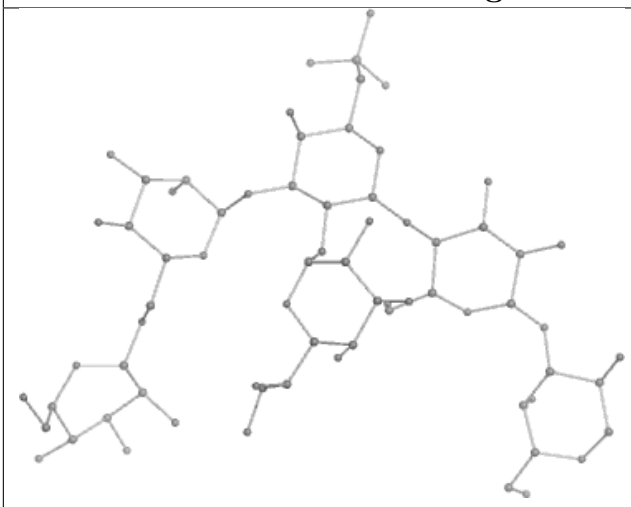


Torsions

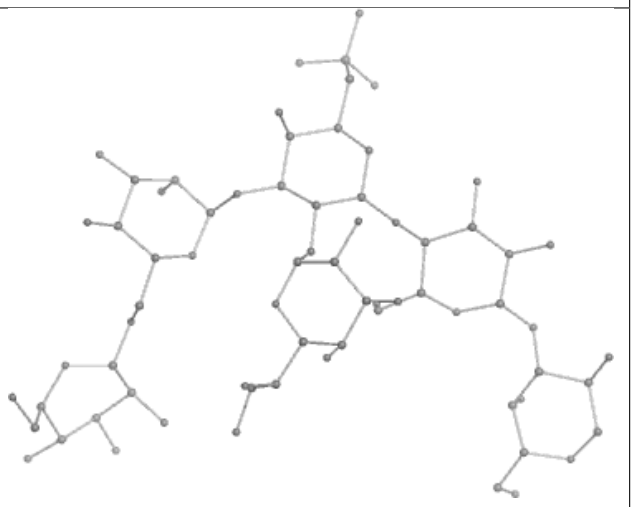


Rings

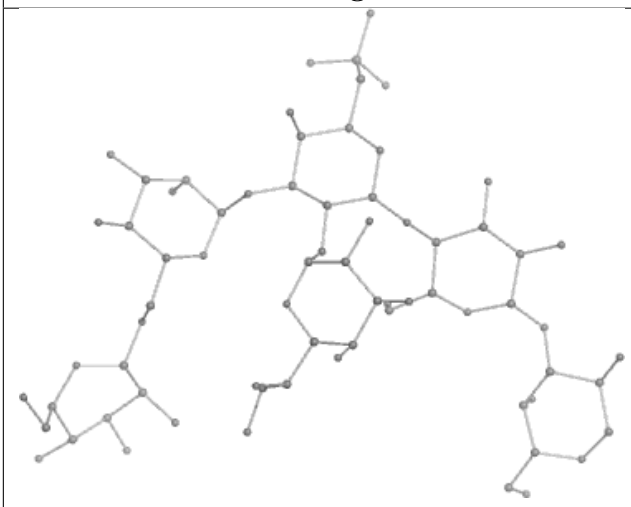
Oligosaccharide Chain kC



Bond lengths



Bond angles



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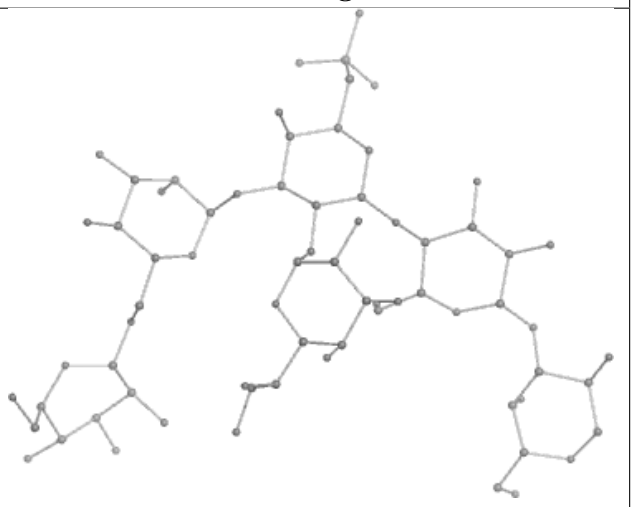
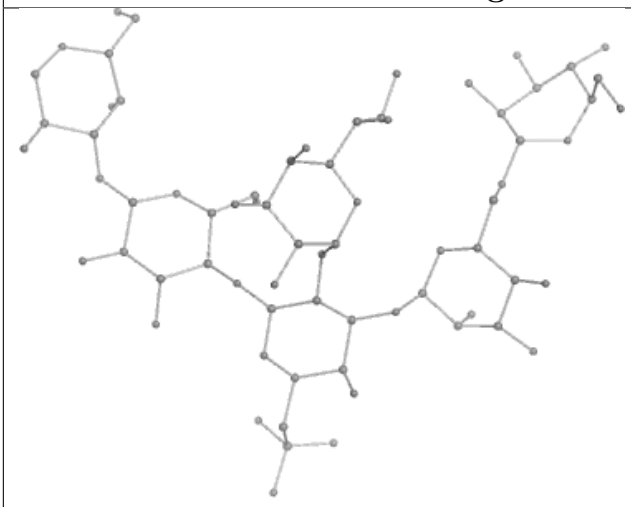


Rings

Oligosaccharide Chain rC



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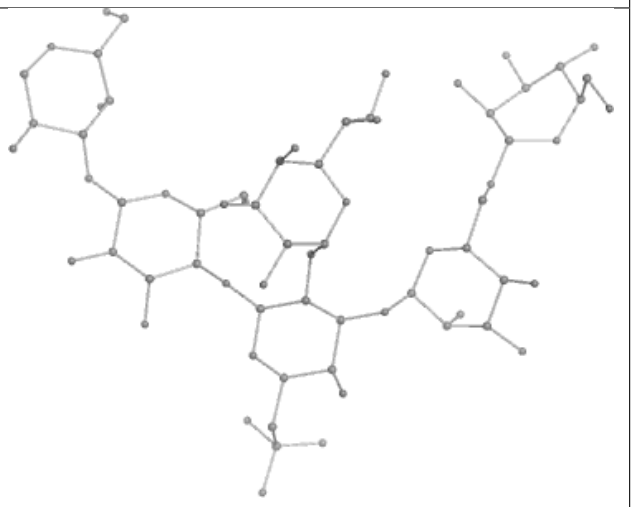

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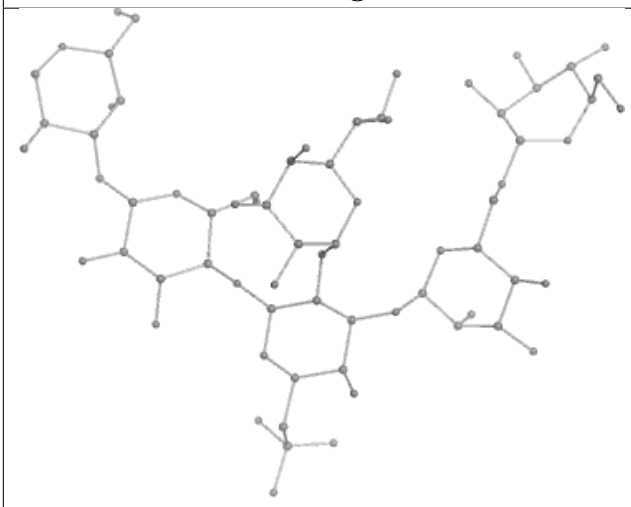

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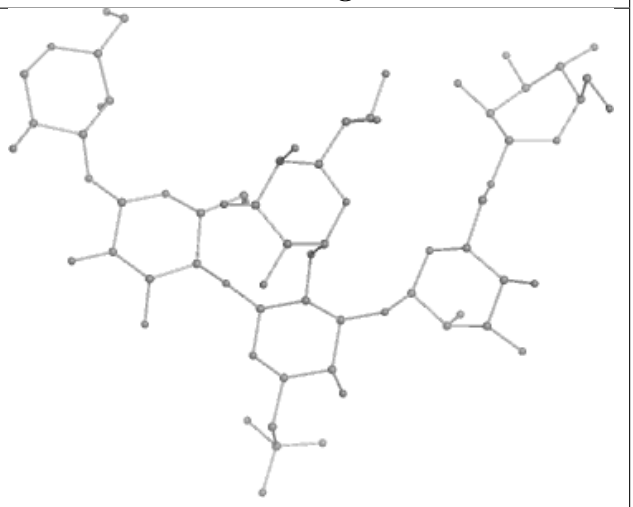
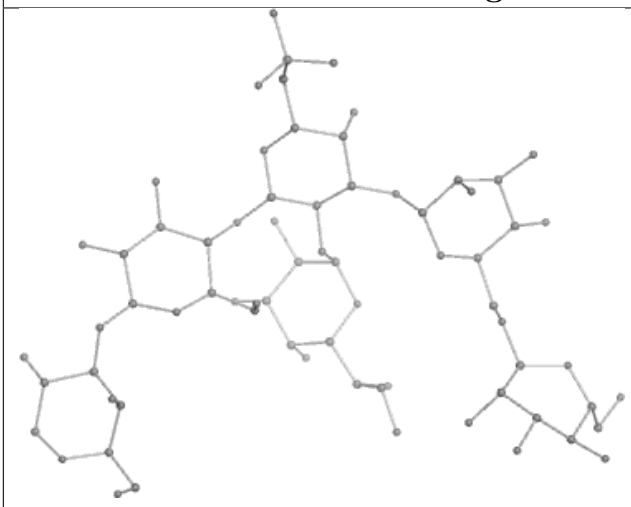


Rings

Oligosaccharide Chain yC



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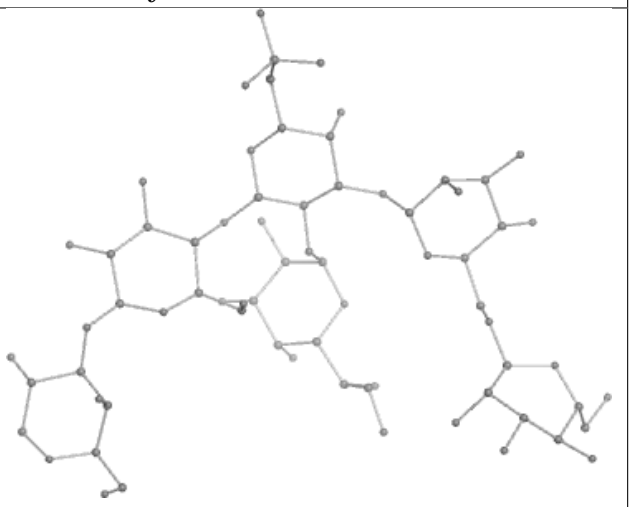

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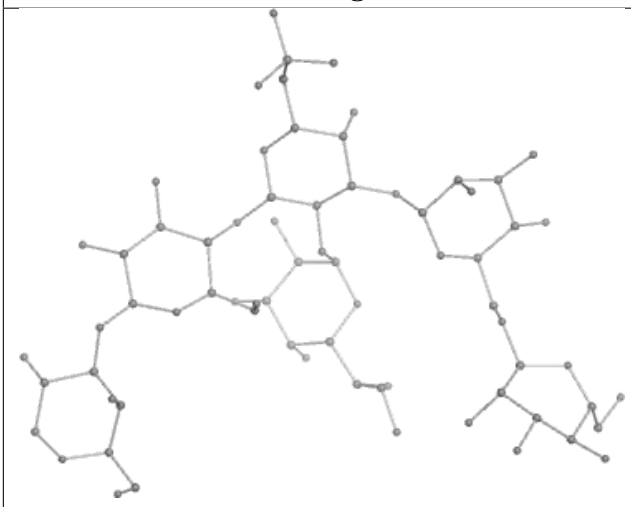

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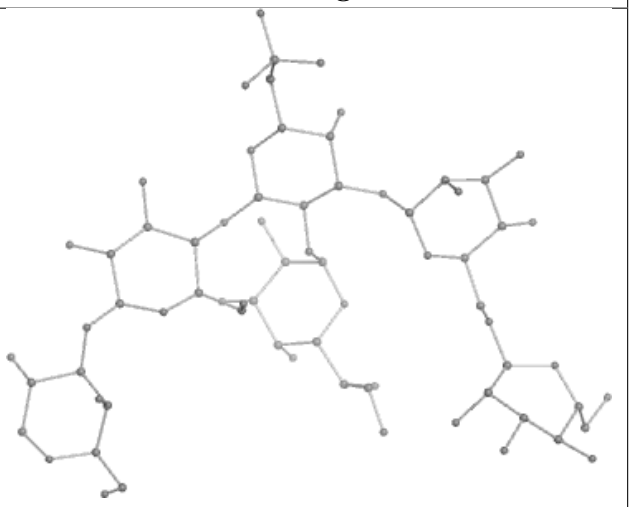
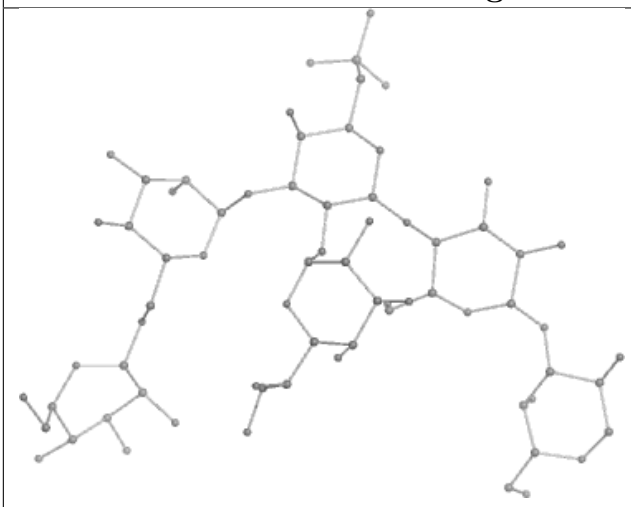


Rings

Oligosaccharide Chain 5C



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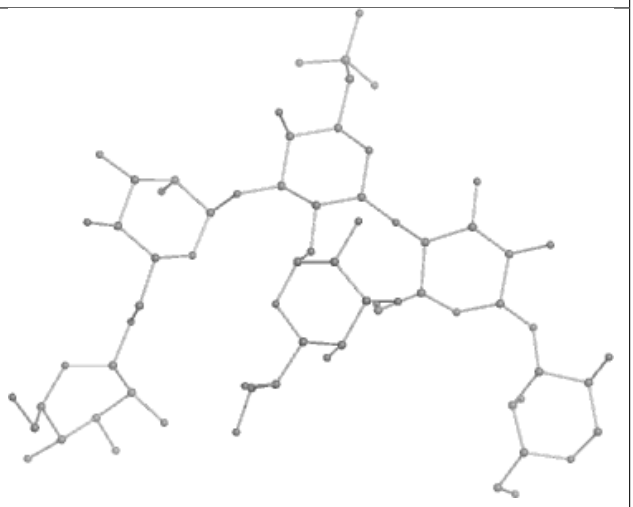

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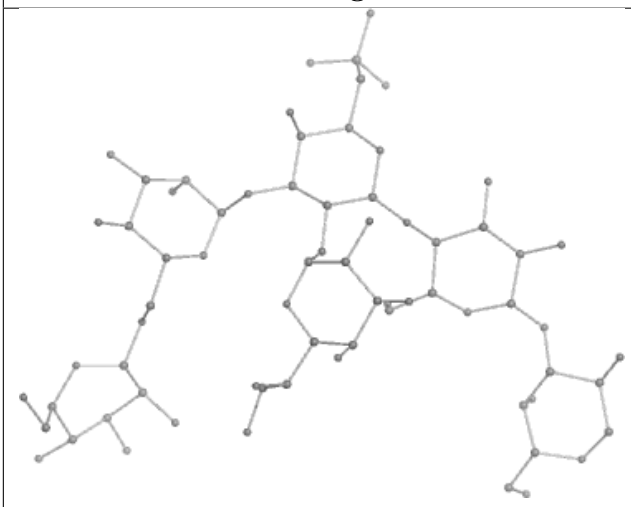

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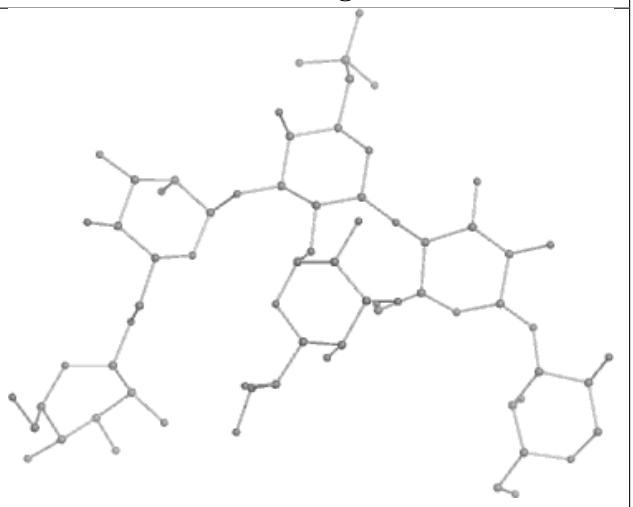
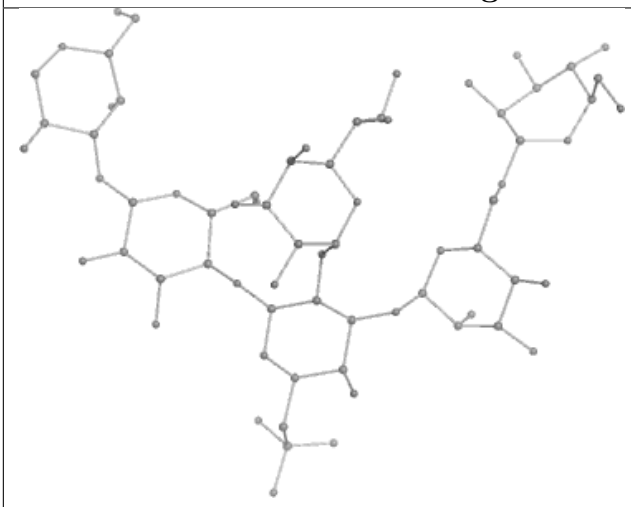


Rings

Oligosaccharide Chain CD



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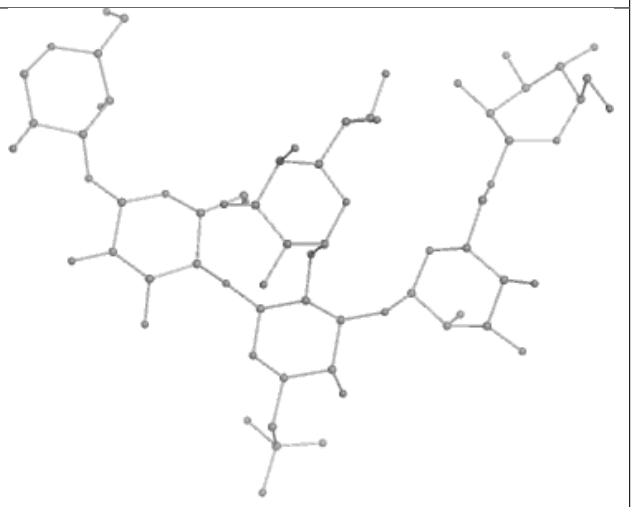

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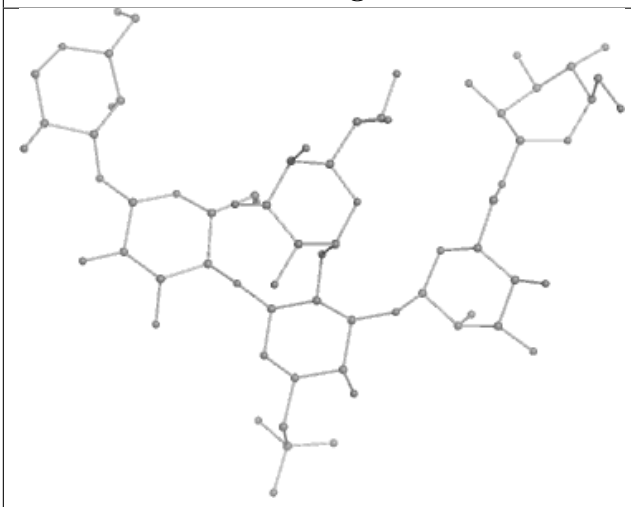

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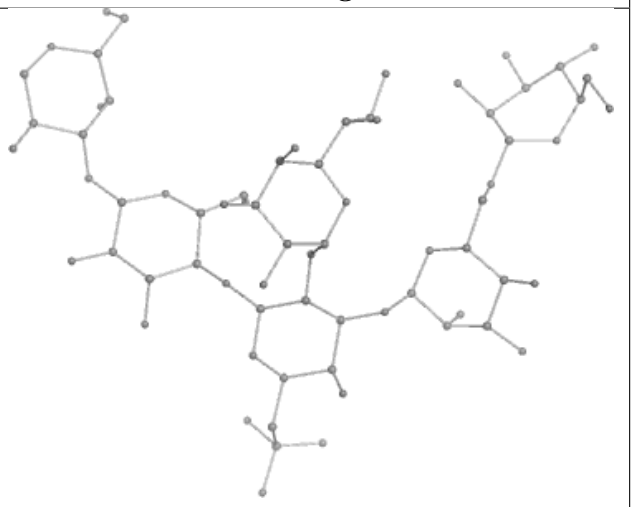
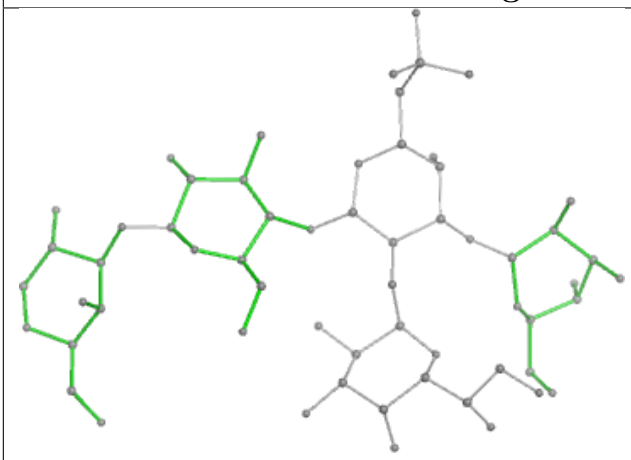


Rings

Oligosaccharide Chain j



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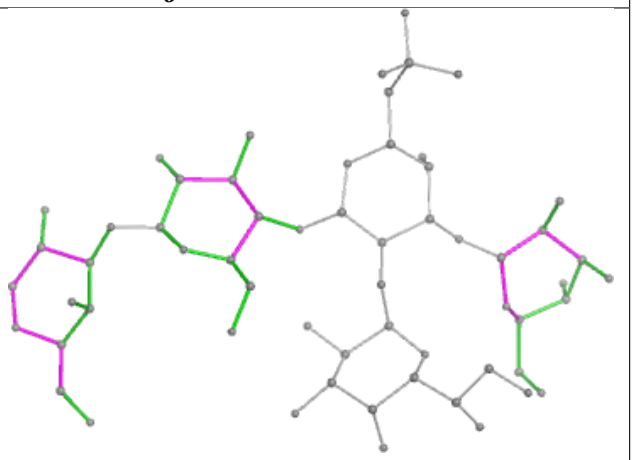

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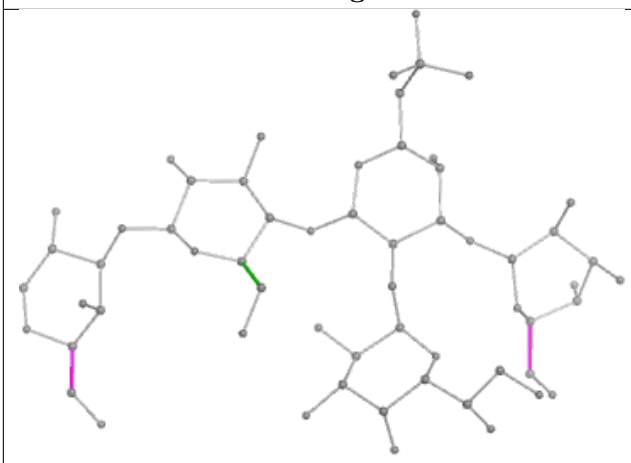

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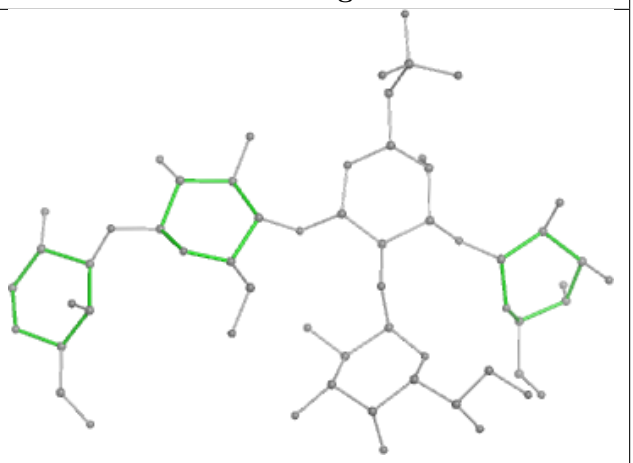
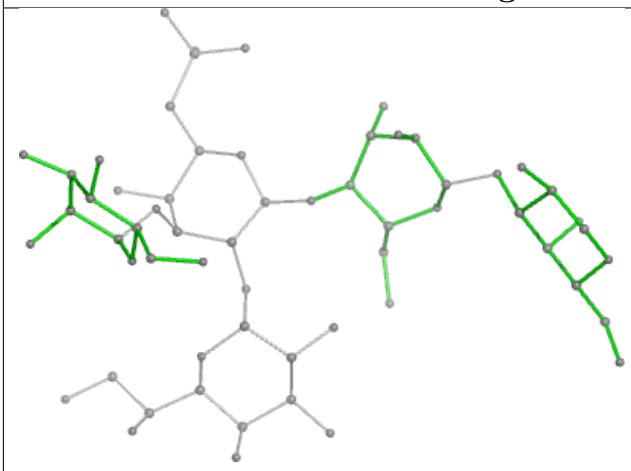


Rings

Oligosaccharide Chain k



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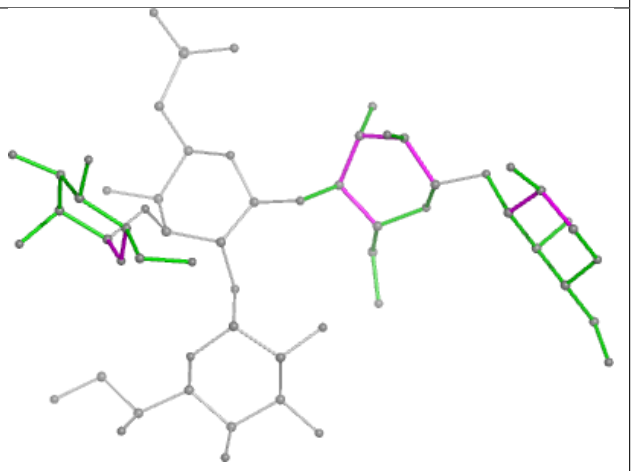

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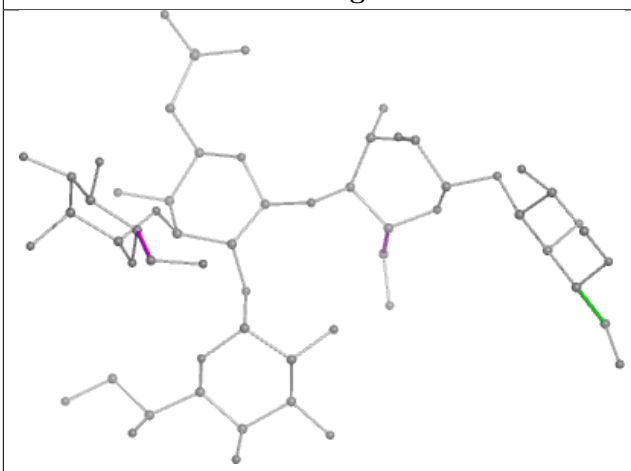

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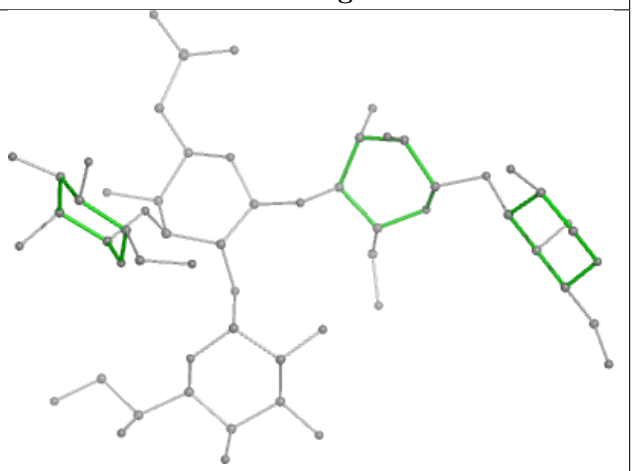
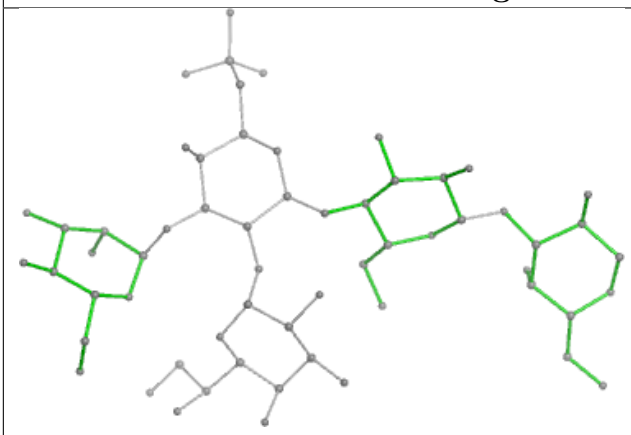


Rings

Oligosaccharide Chain m



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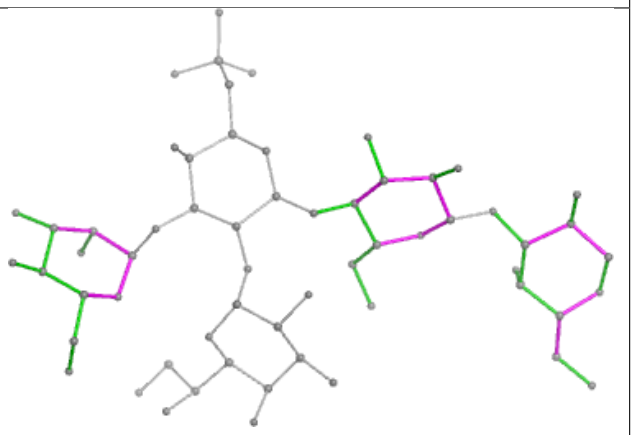

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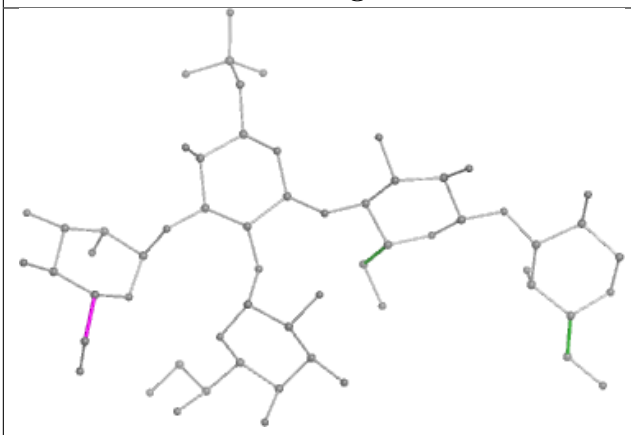

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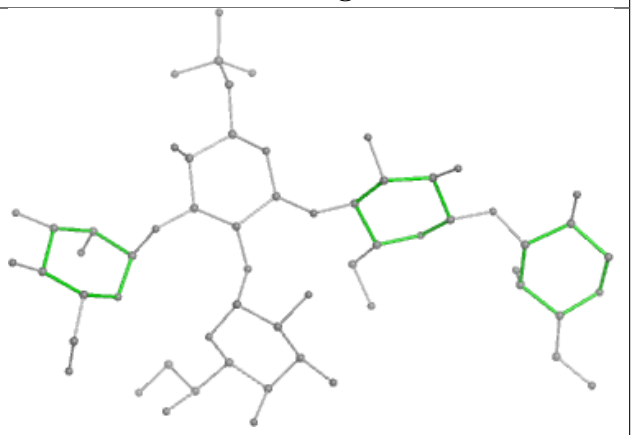
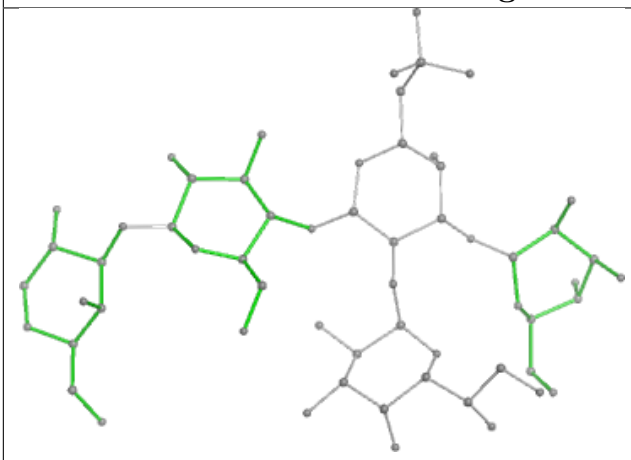


Rings

Oligosaccharide Chain q



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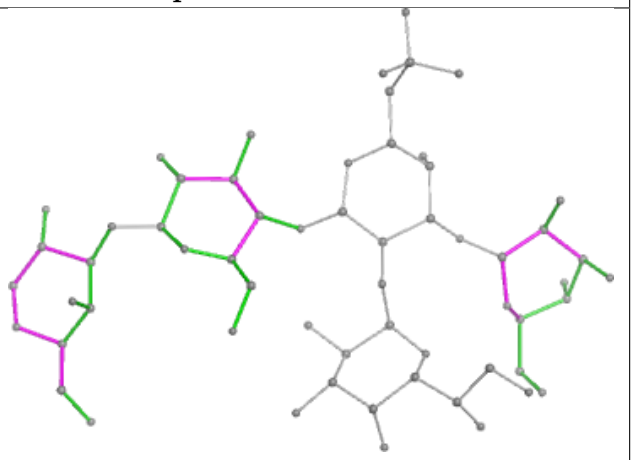

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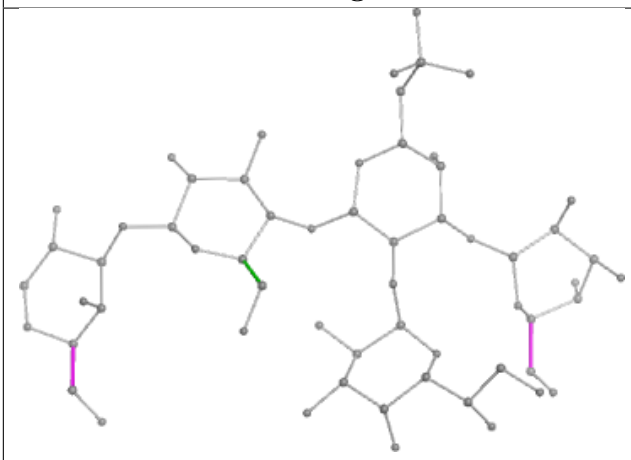

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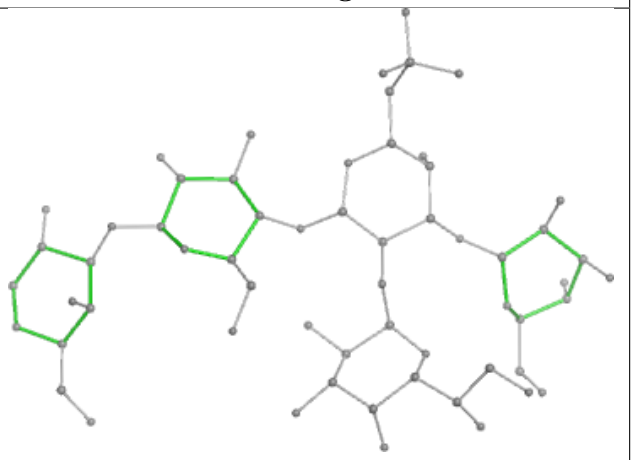
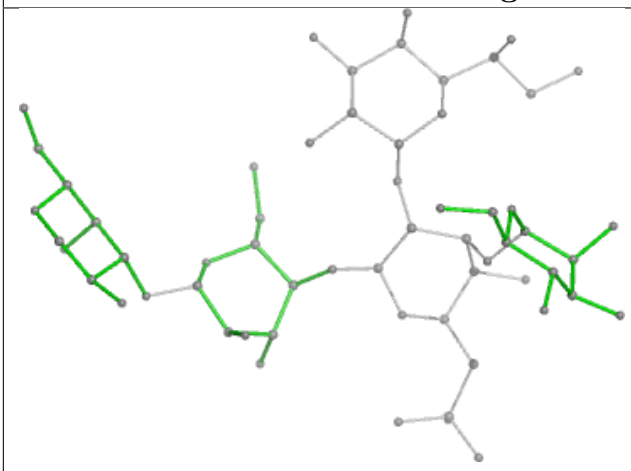


Rings

Oligosaccharide Chain r



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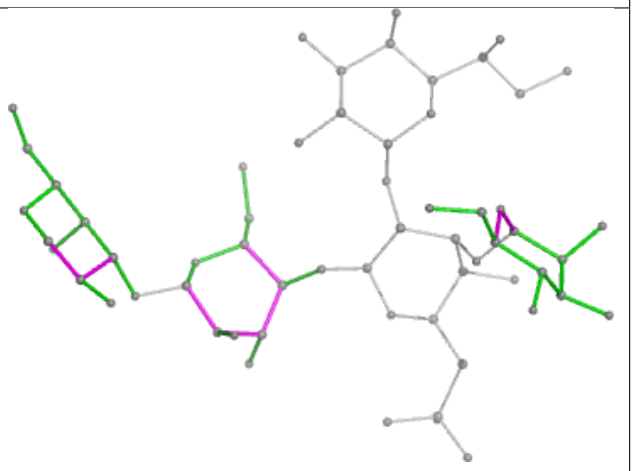

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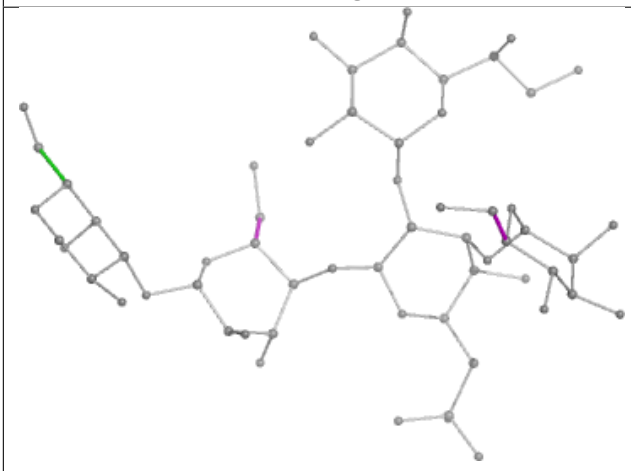

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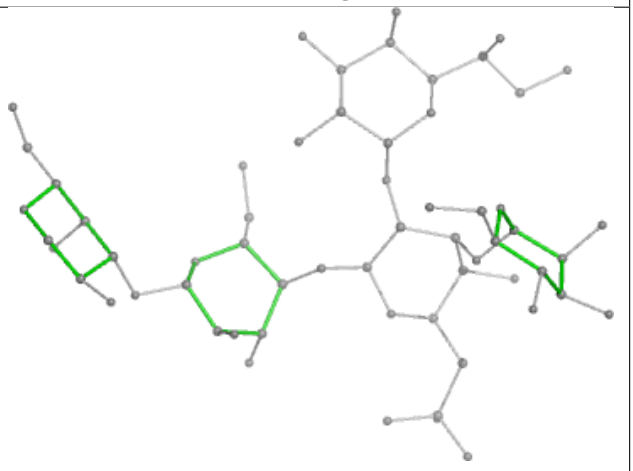
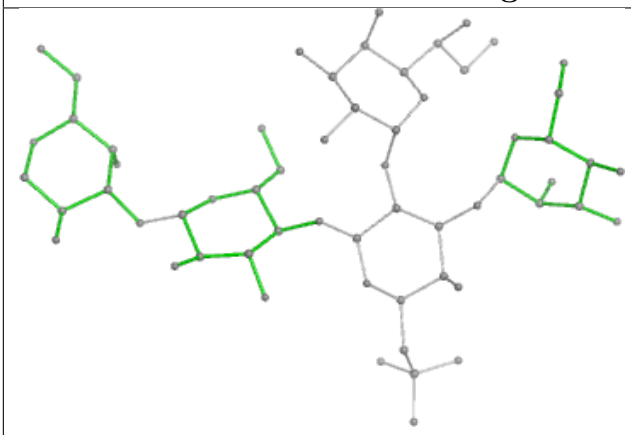


Rings

Oligosaccharide Chain t



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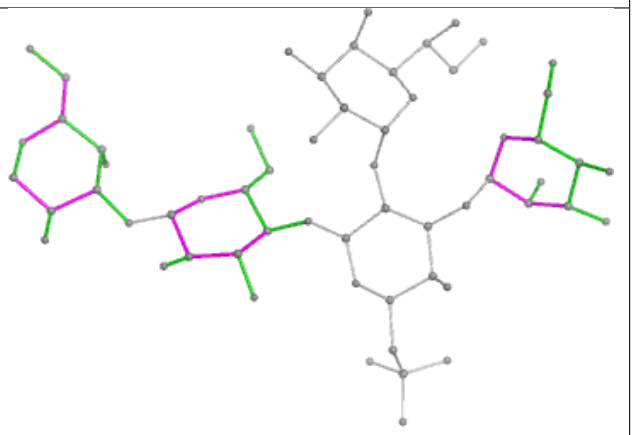

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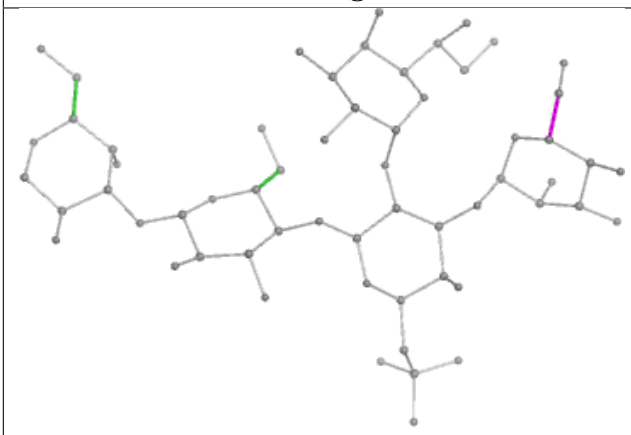

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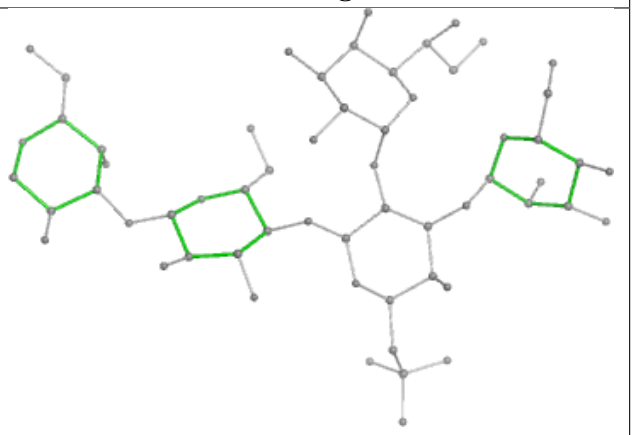
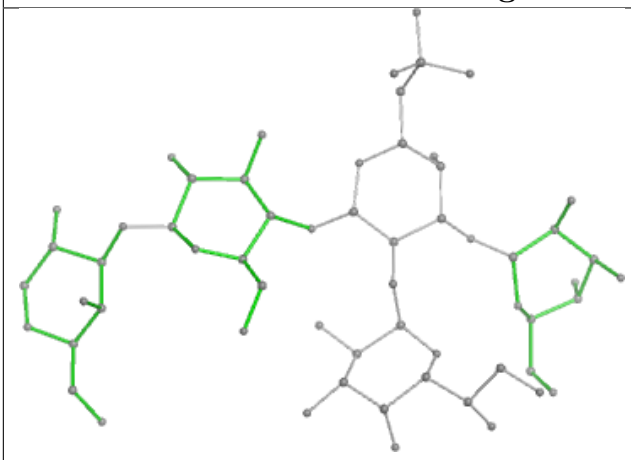


Rings

Oligosaccharide Chain x



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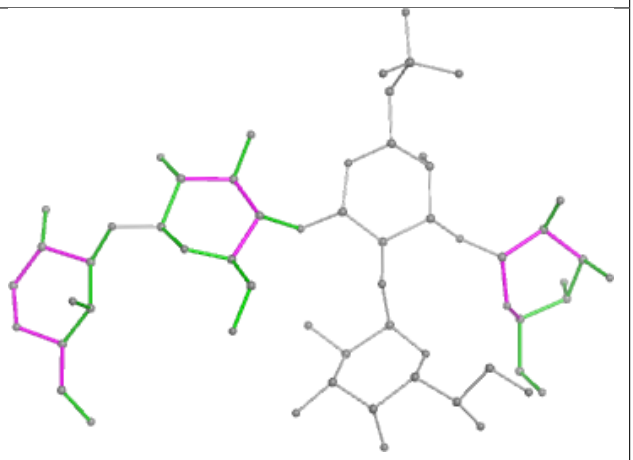
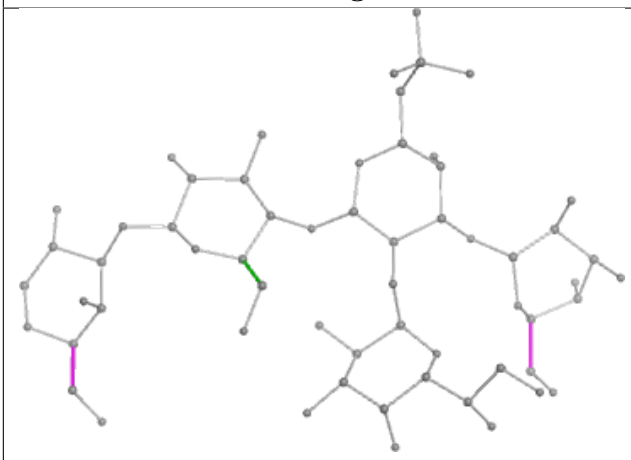


Bond angles



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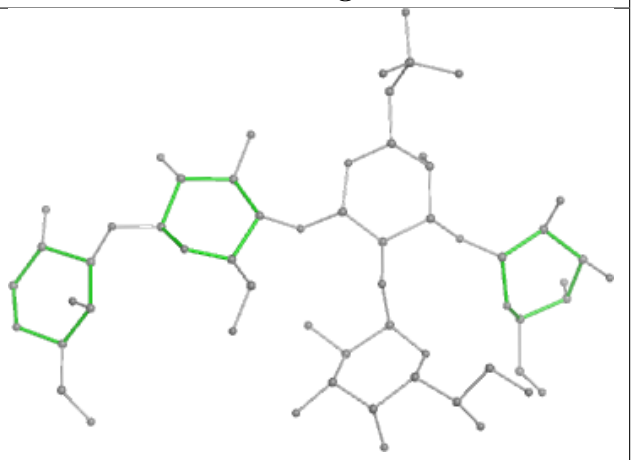
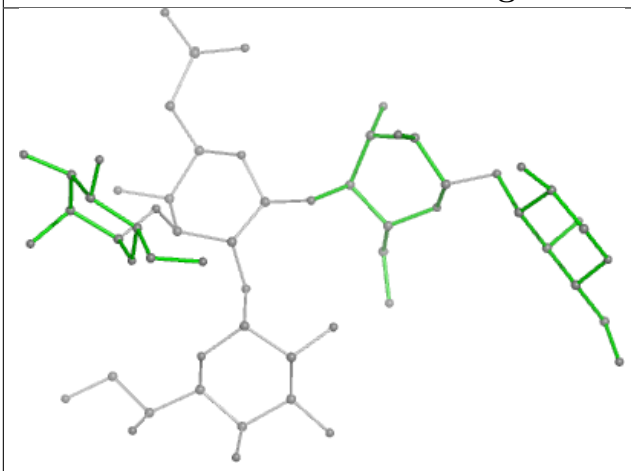


Rings

Oligosaccharide Chain y



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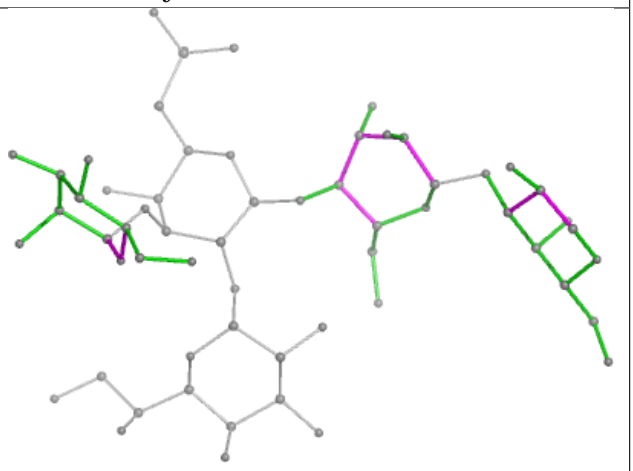
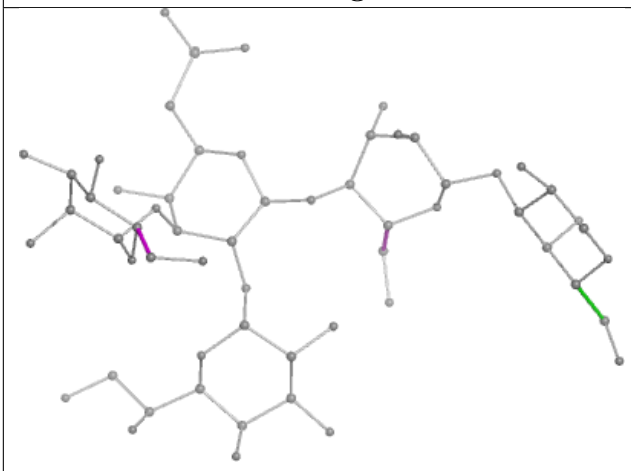


Bond angles



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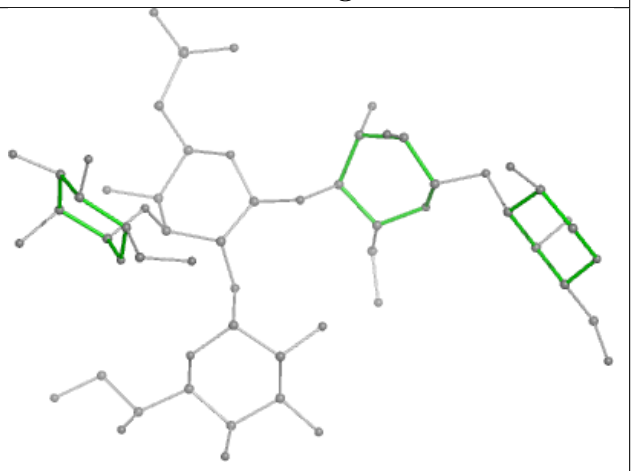
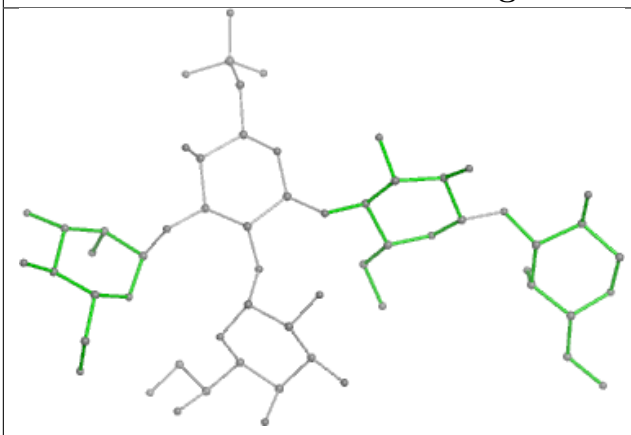
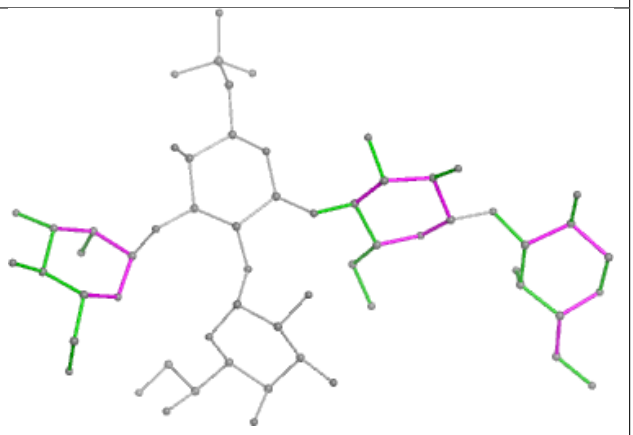


Rings

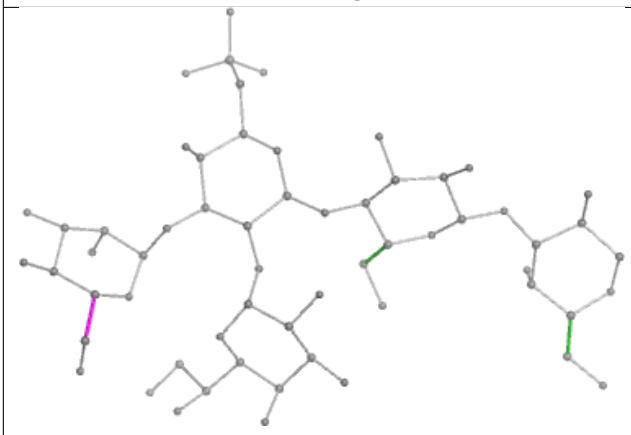
Oligosaccharide Chain 0



Bond lengths



Bond angles



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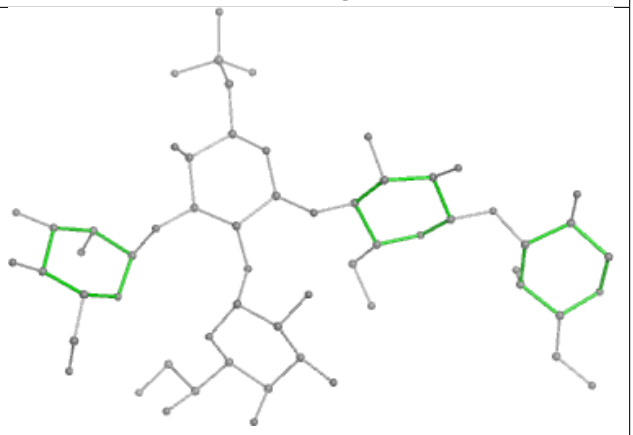
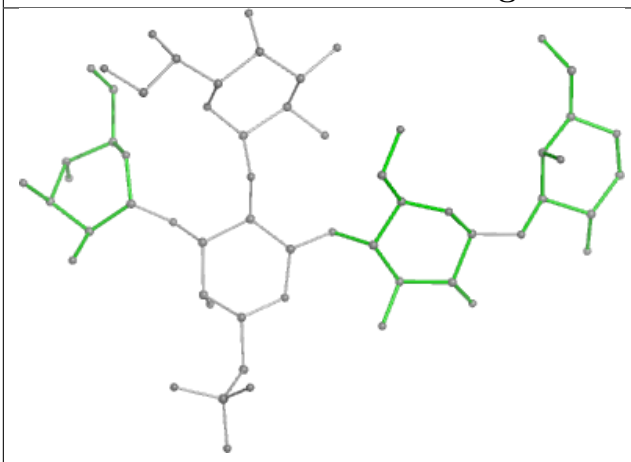
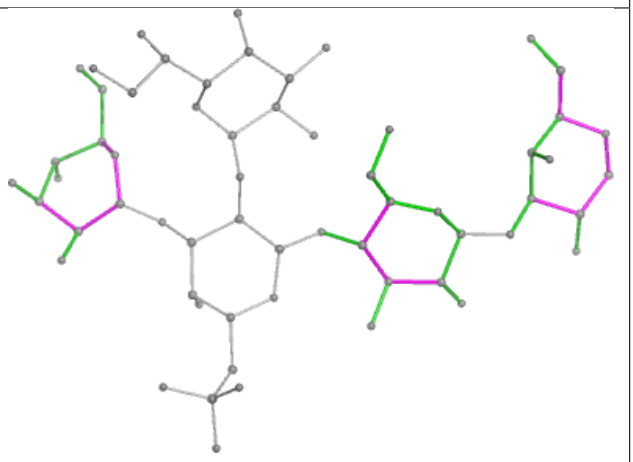


Rings

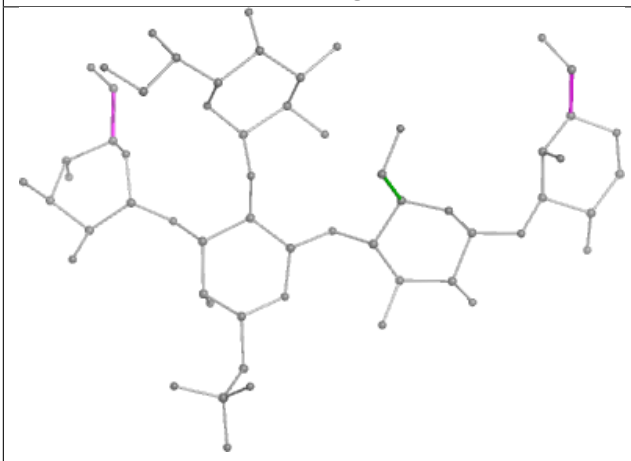
Oligosaccharide Chain 4



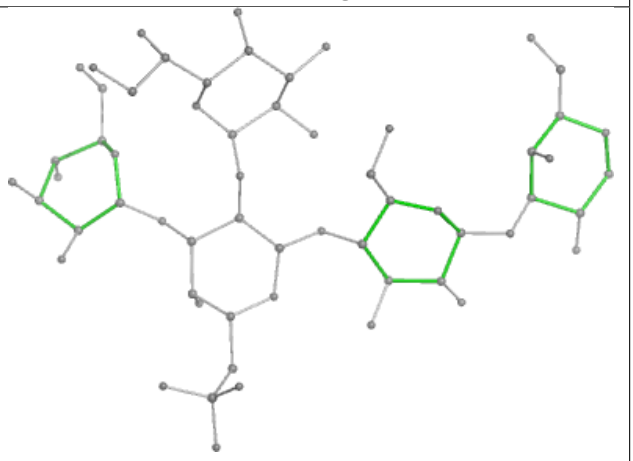
Bond lengths



Bond angles

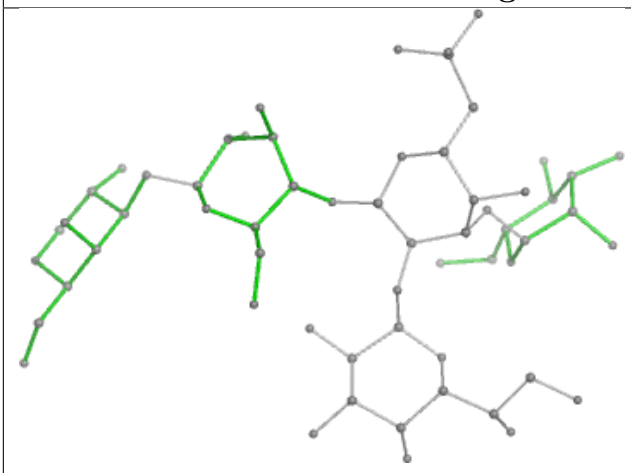


Torsions



Rings

Oligosaccharide Chain 5



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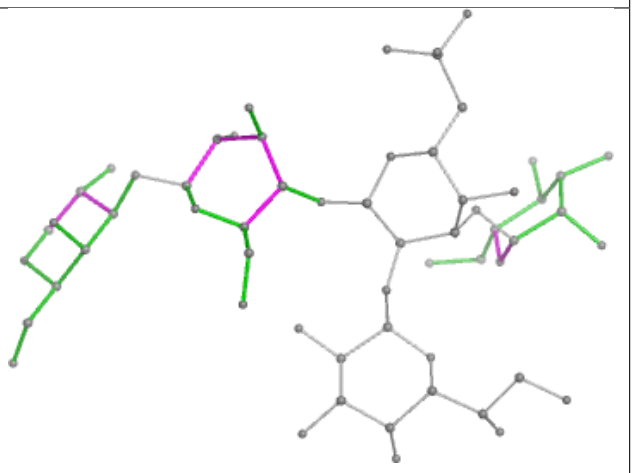
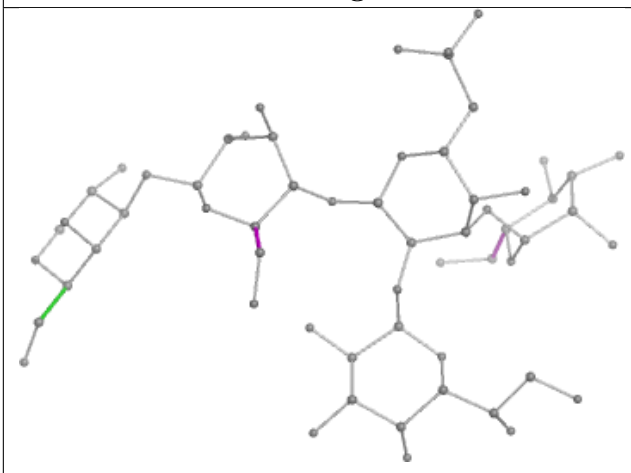


Bond angles



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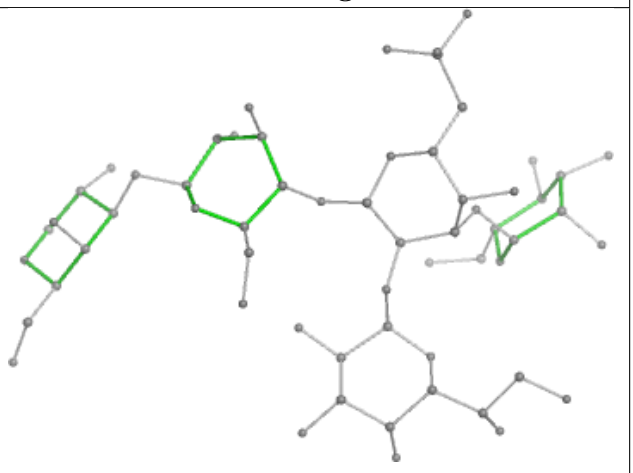
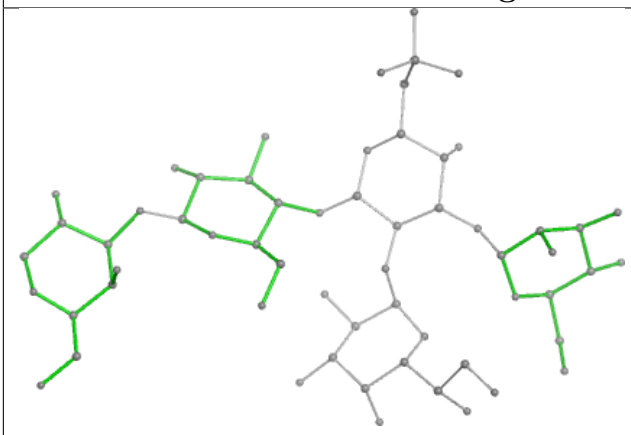


Rings

Oligosaccharide Chain 7



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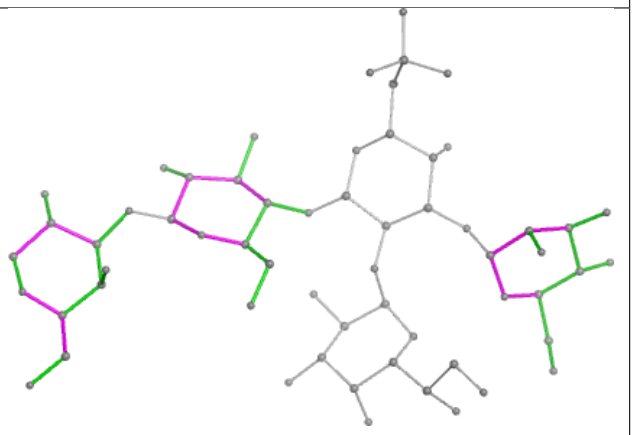

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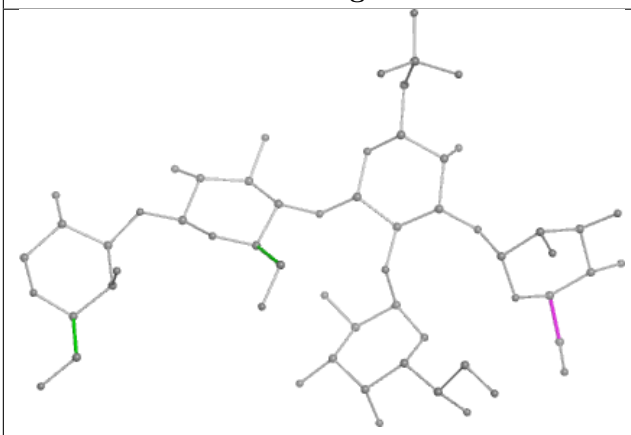

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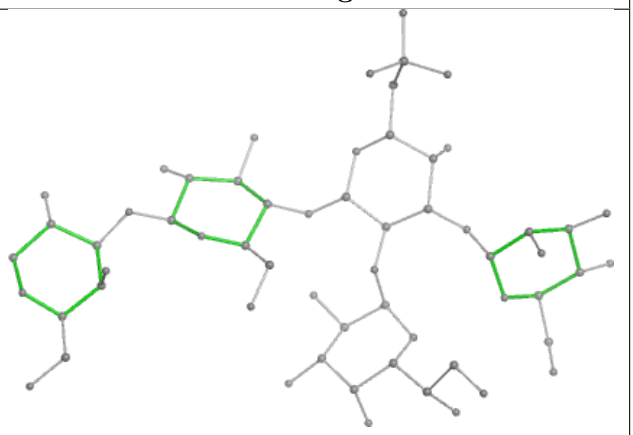
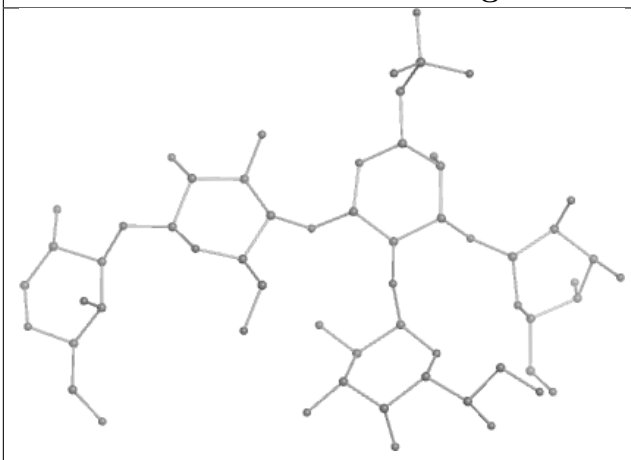


Rings

Oligosaccharide Chain BA



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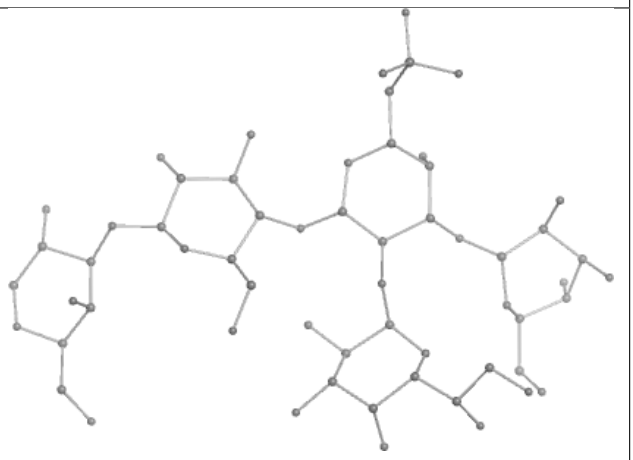
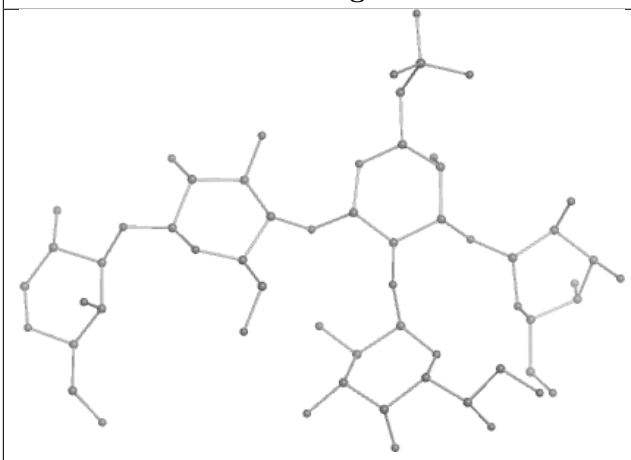


Bond angles



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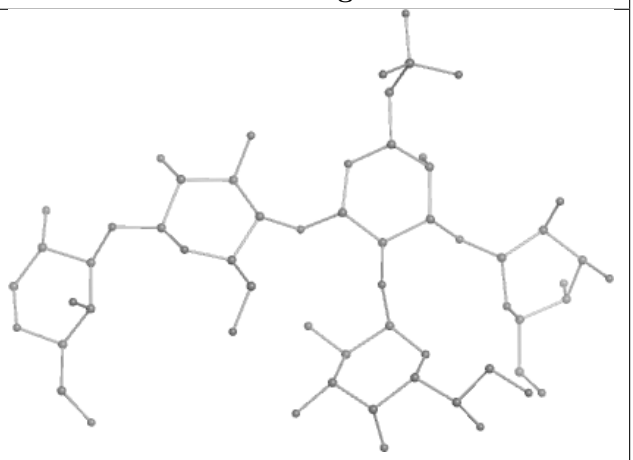
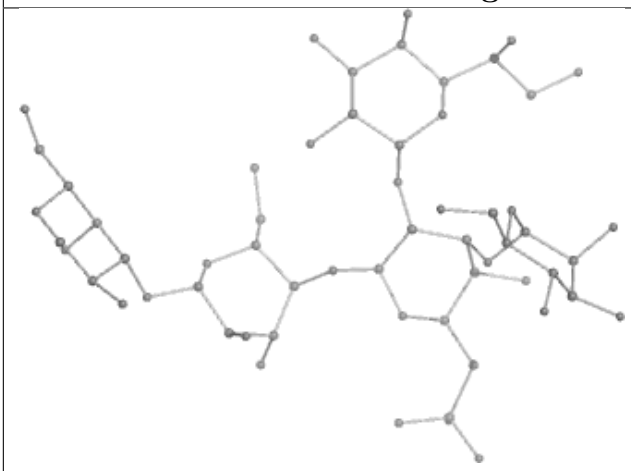


Rings

Oligosaccharide Chain CA



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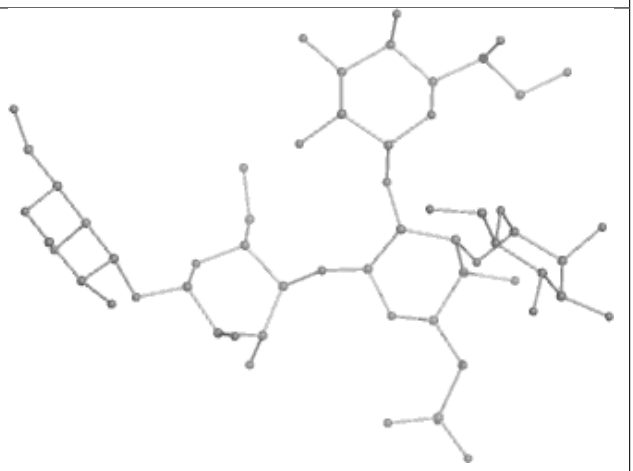
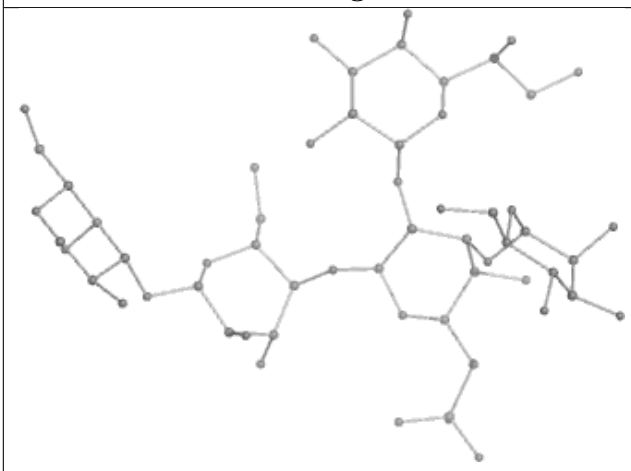


Bond angles



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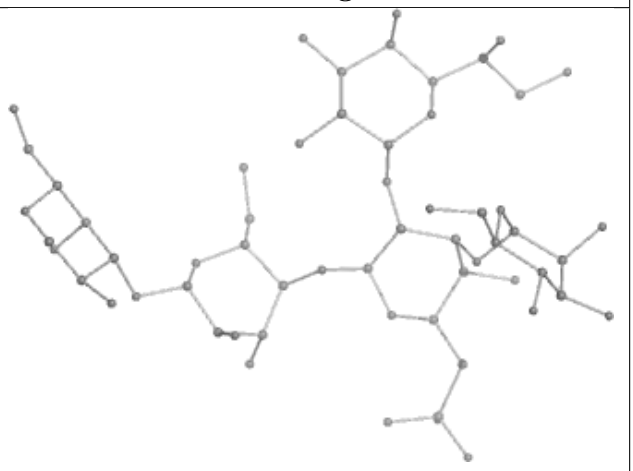
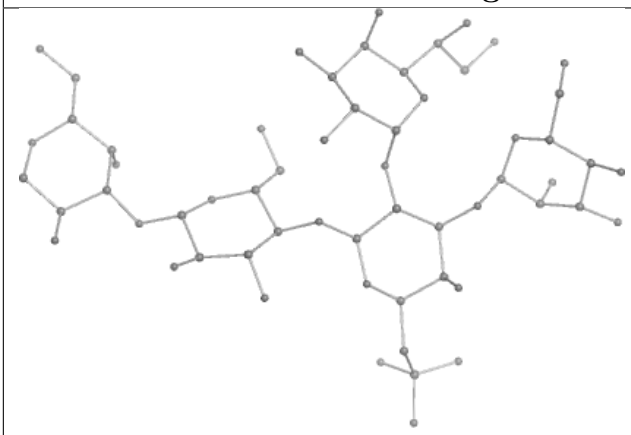


Rings

Oligosaccharide Chain EA



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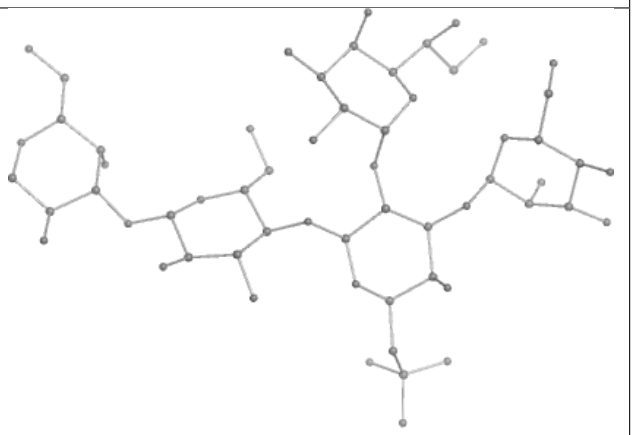
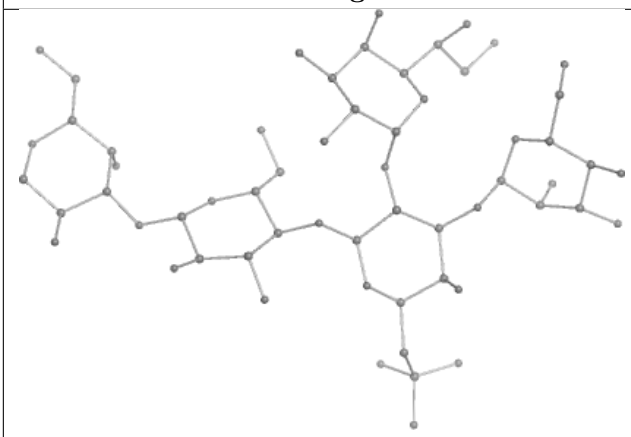


Bond angles



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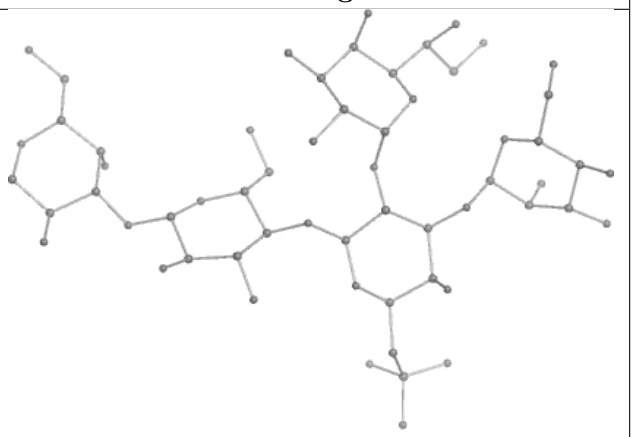
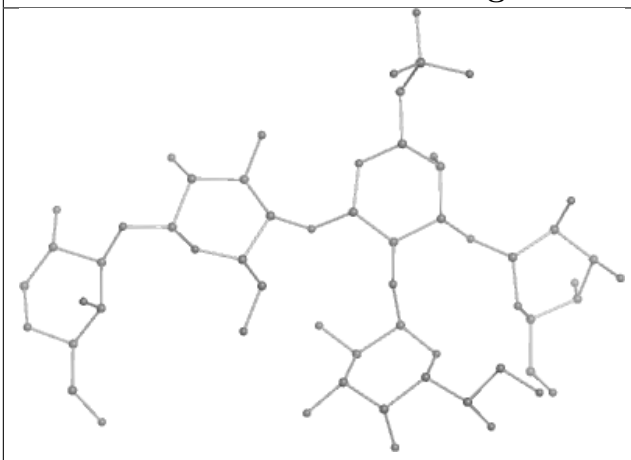


Rings

Oligosaccharide Chain IA



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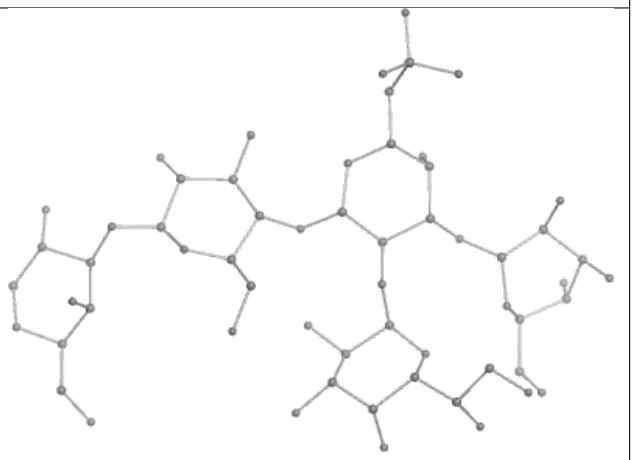
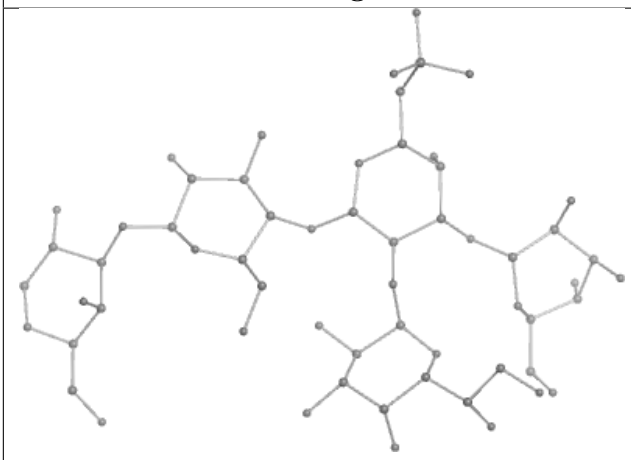


Bond angles



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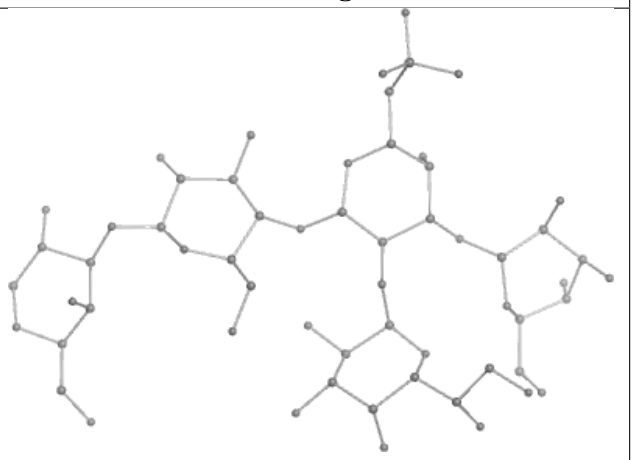
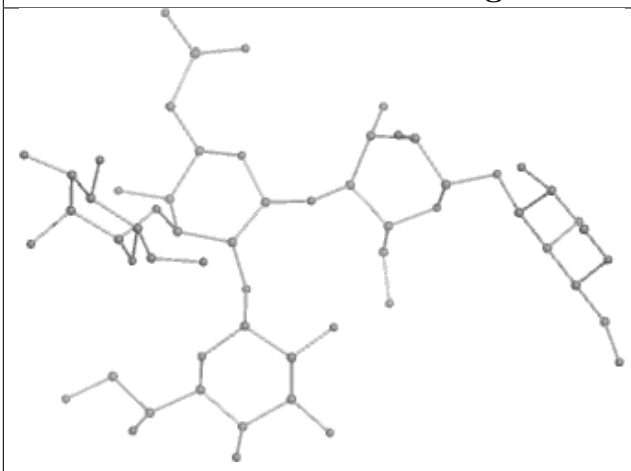


Rings

Oligosaccharide Chain JA



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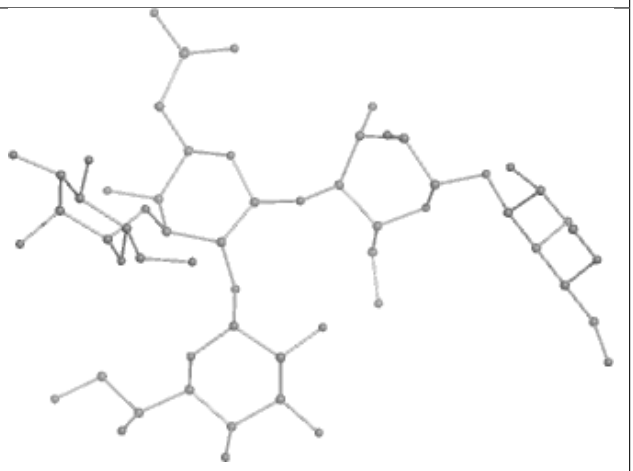
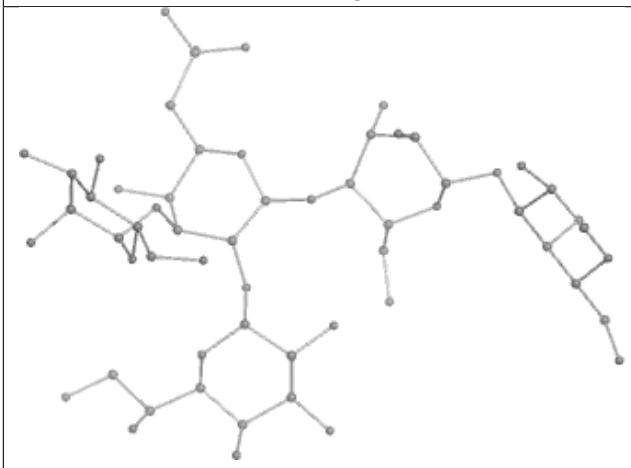


Bond angles



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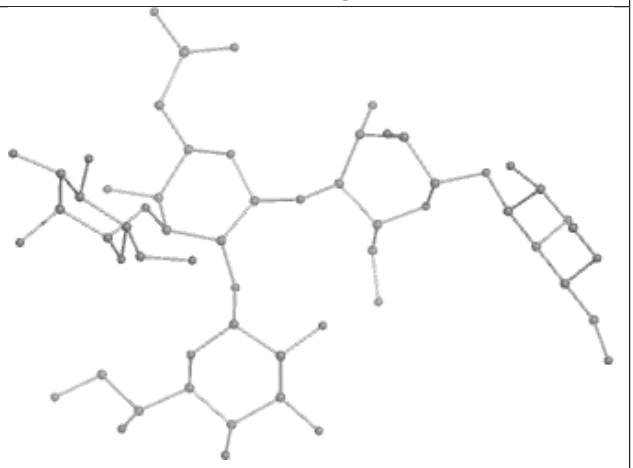
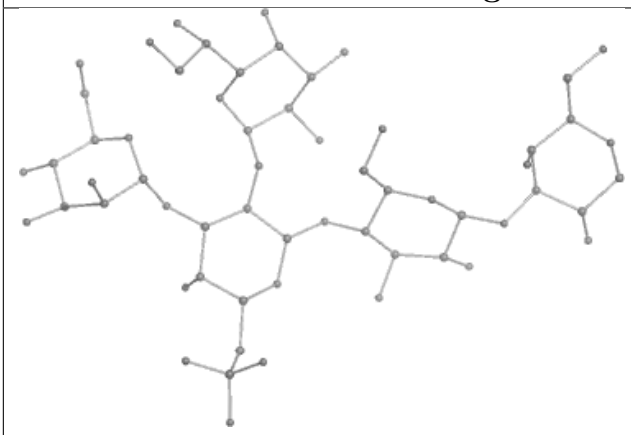


Rings

Oligosaccharide Chain LA



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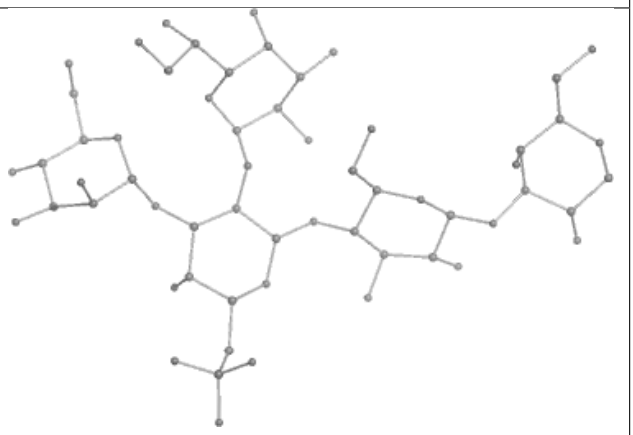
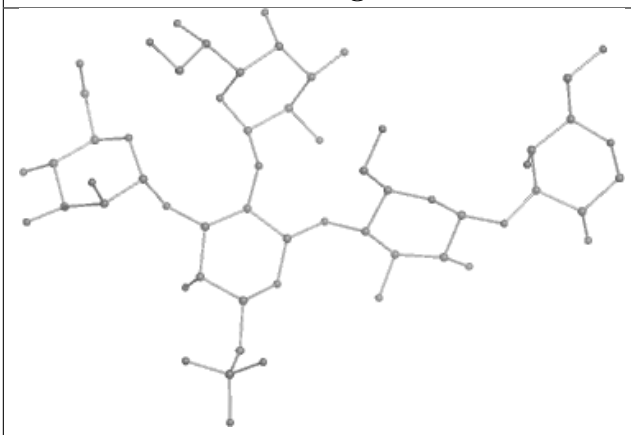


Bond angles



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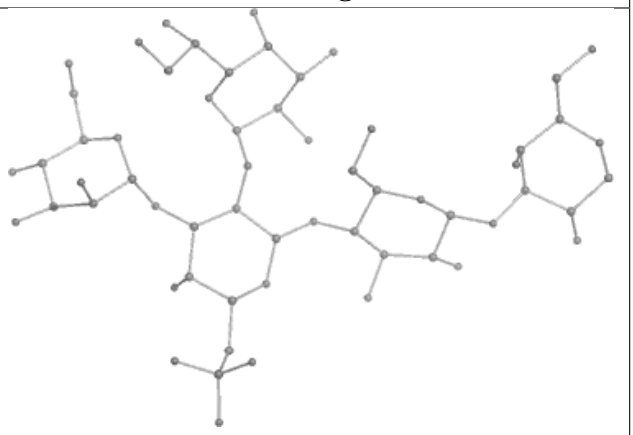
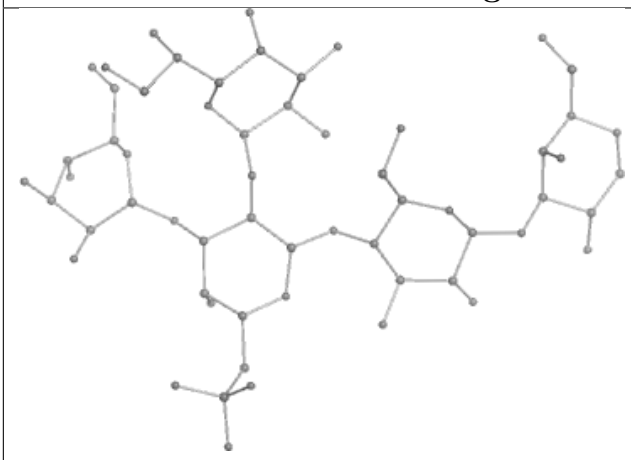


Rings

Oligosaccharide Chain PA



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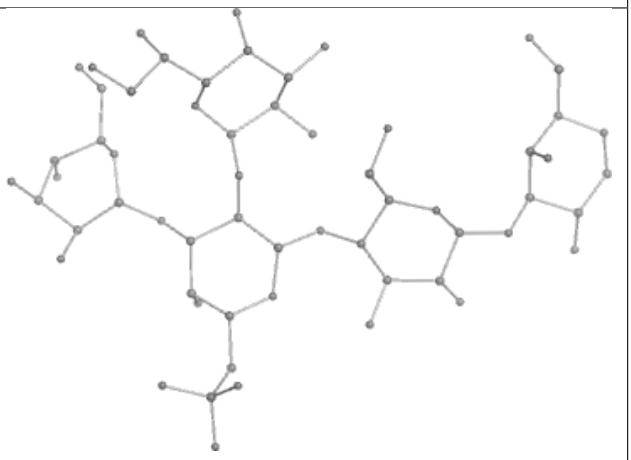

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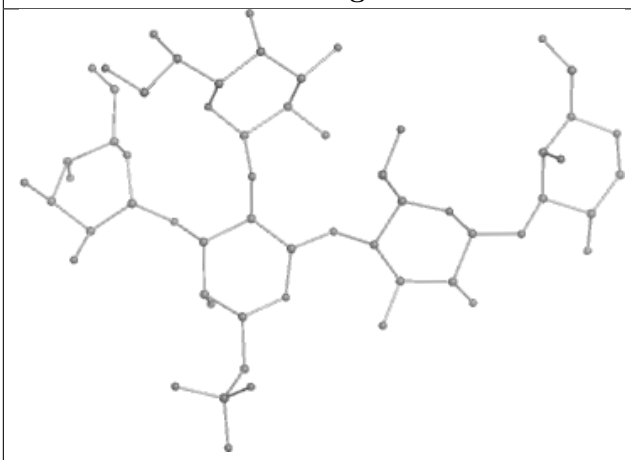

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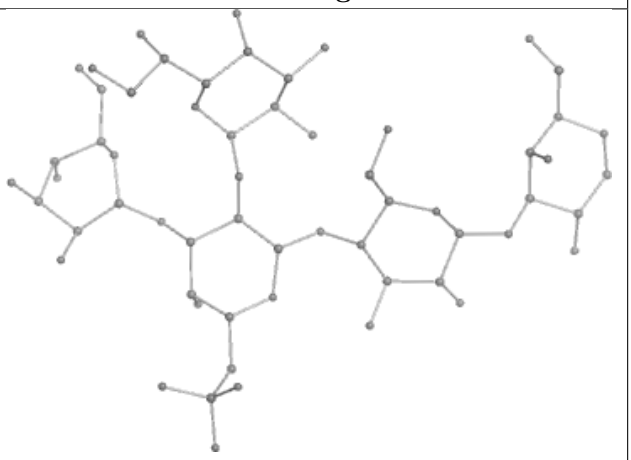
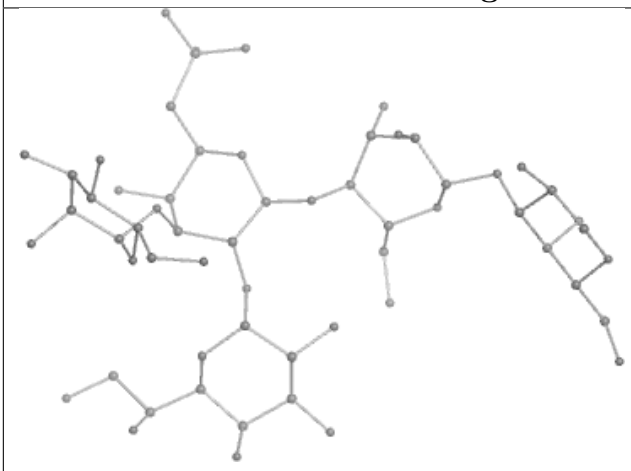


Rings

Oligosaccharide Chain QA



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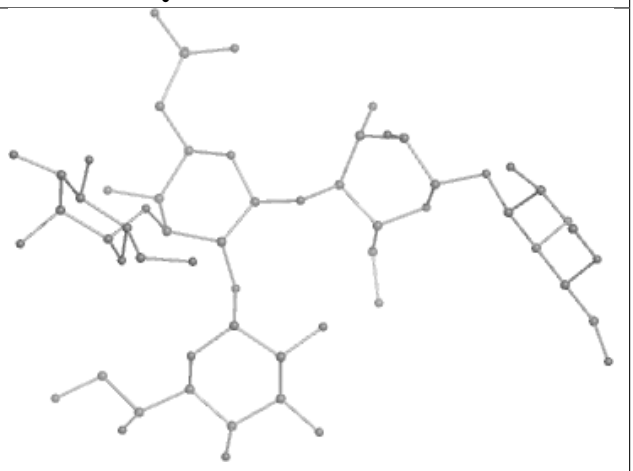
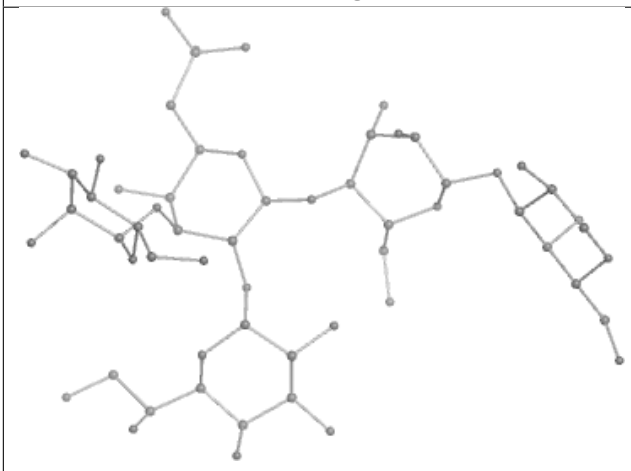


Bond angles



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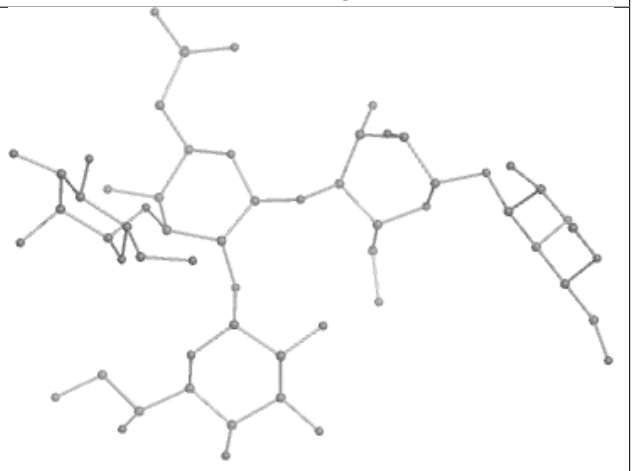
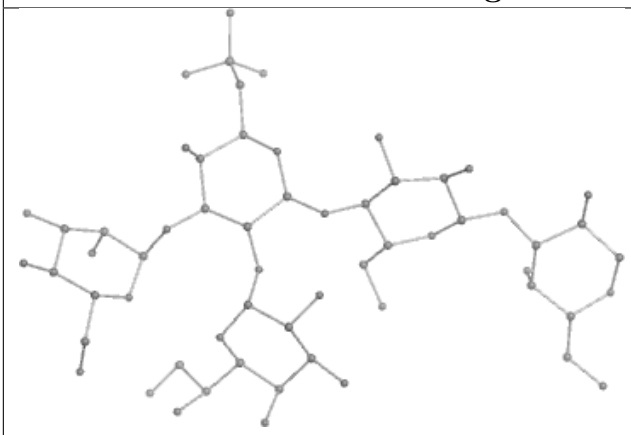


Rings

Oligosaccharide Chain SA



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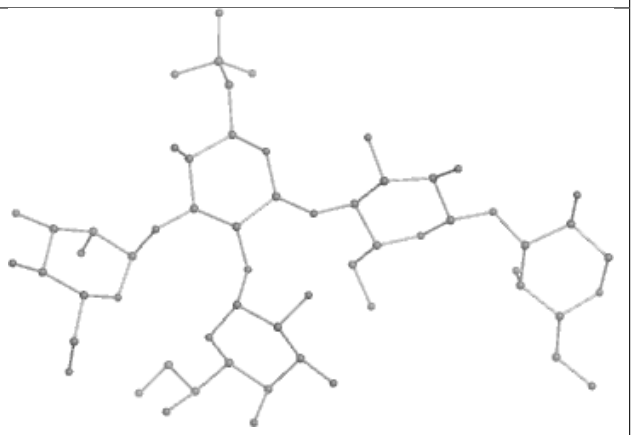
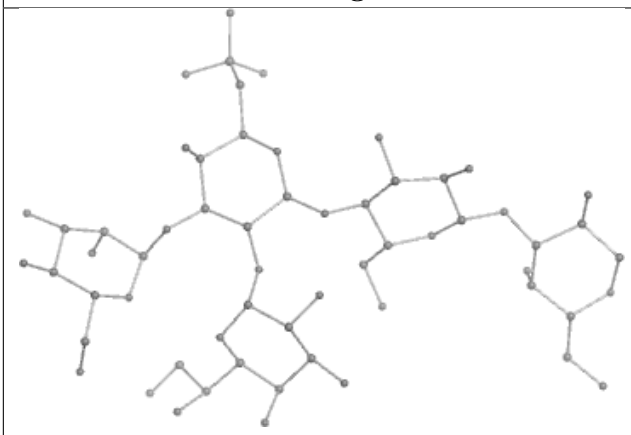
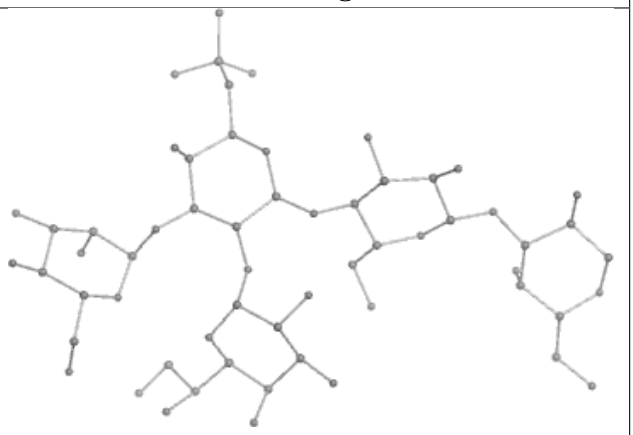


Bond angles

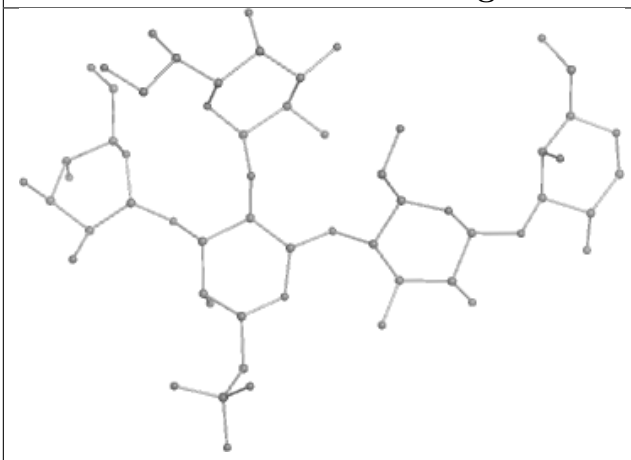


Torsions



Rings

Oligosaccharide Chain WA



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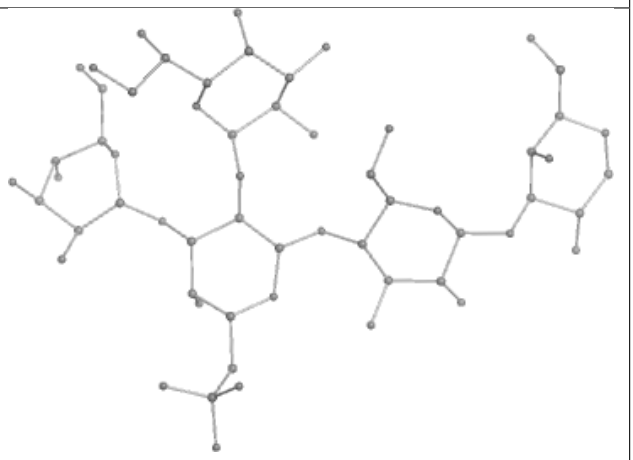
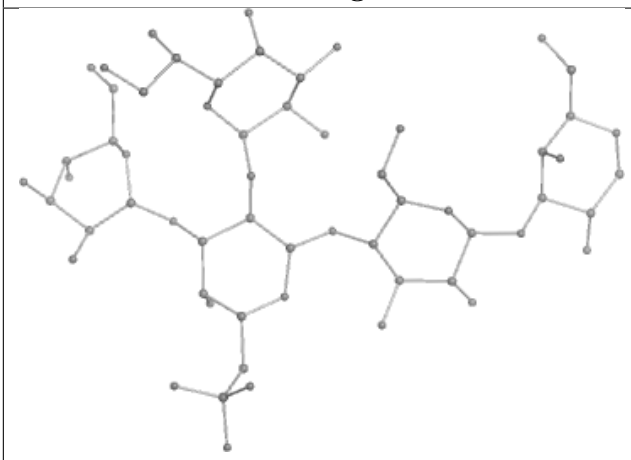


Bond angles



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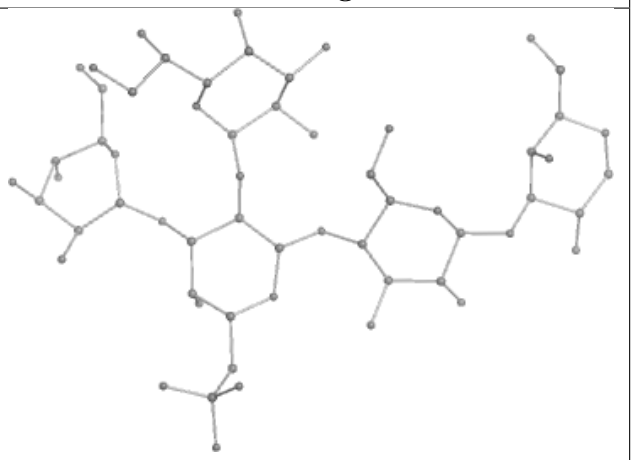
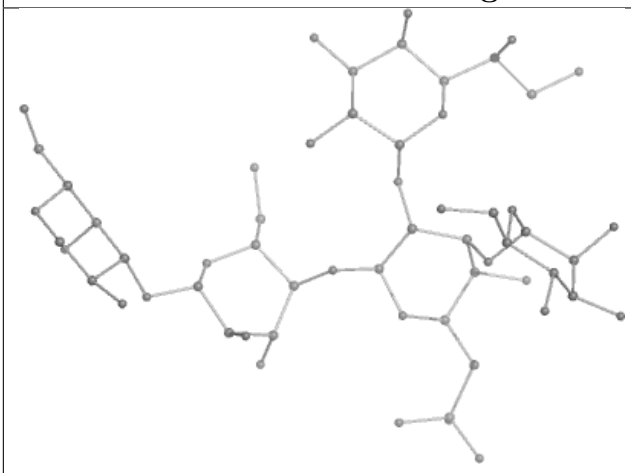
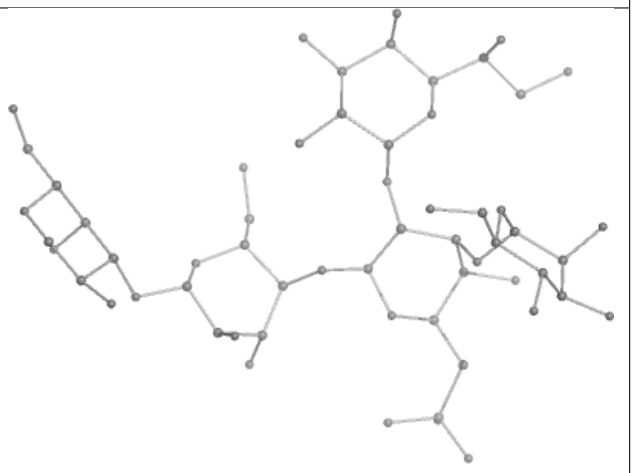


Rings

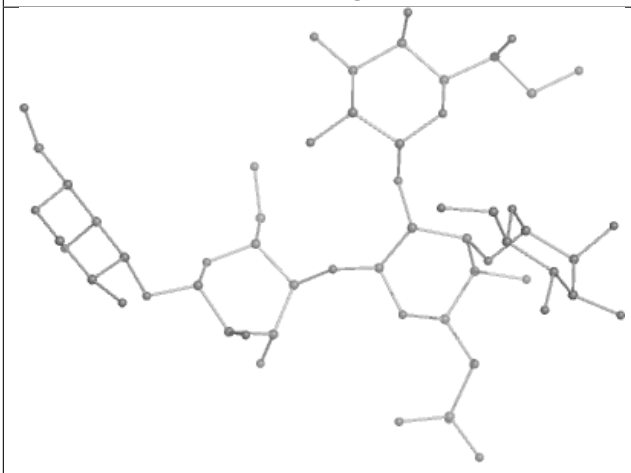
Oligosaccharide Chain XA



Bond lengths



Bond angles



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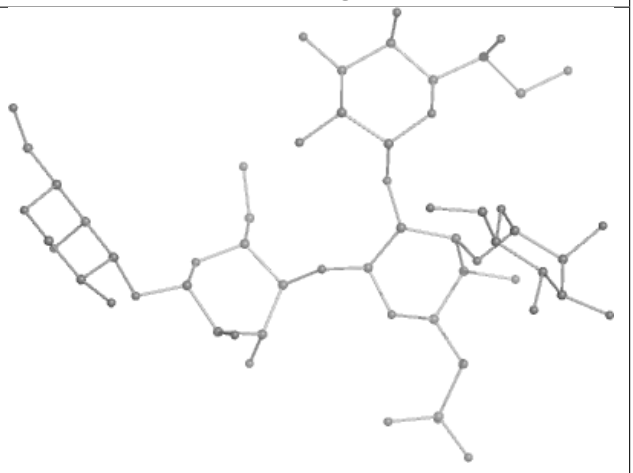
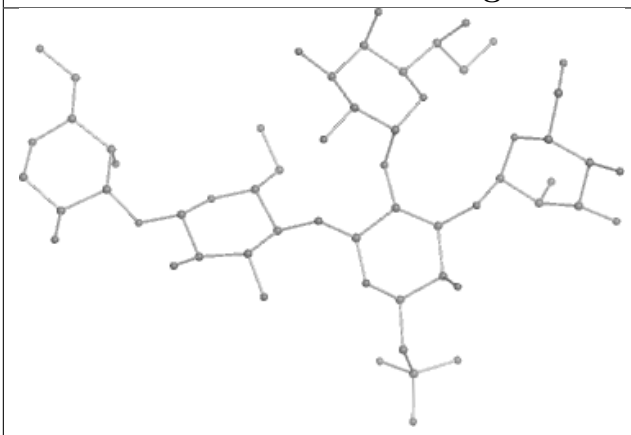
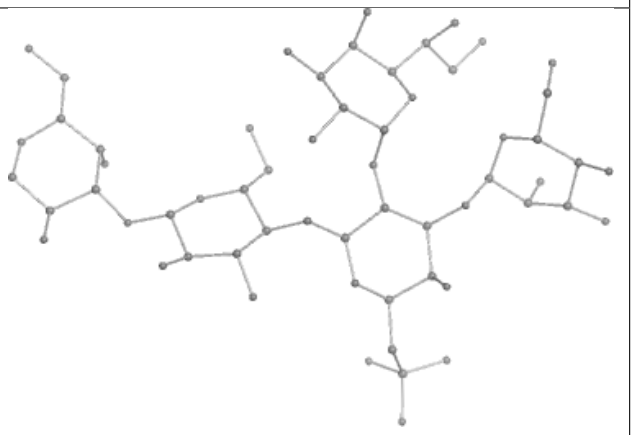


Rings

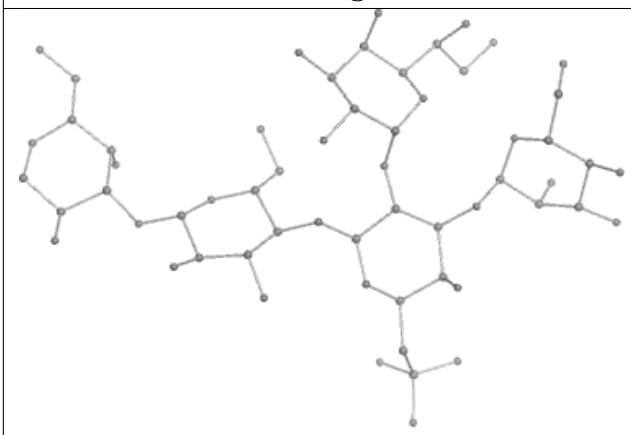
Oligosaccharide Chain ZA



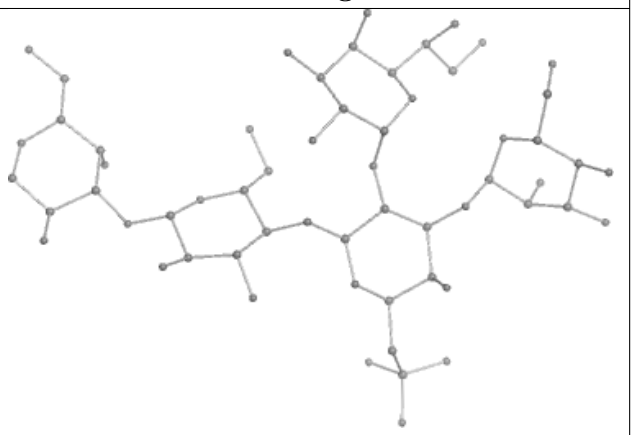
Bond lengths



Bond angles

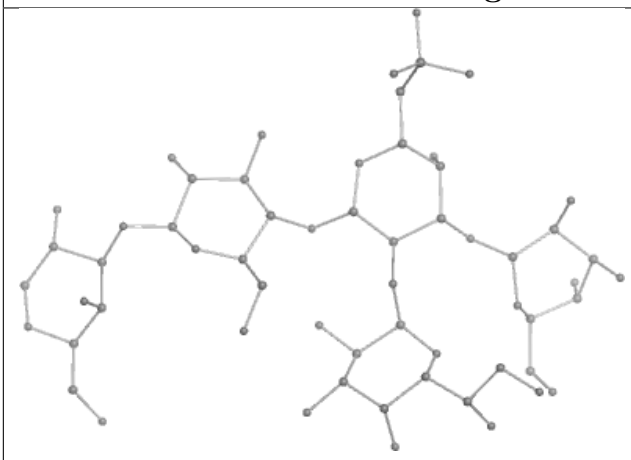


Torsions

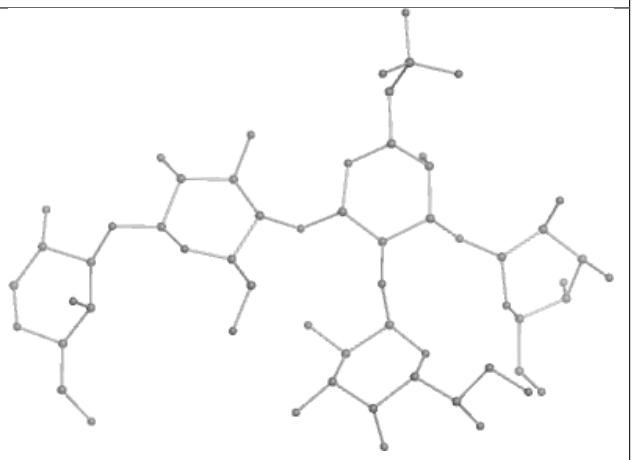


Rings

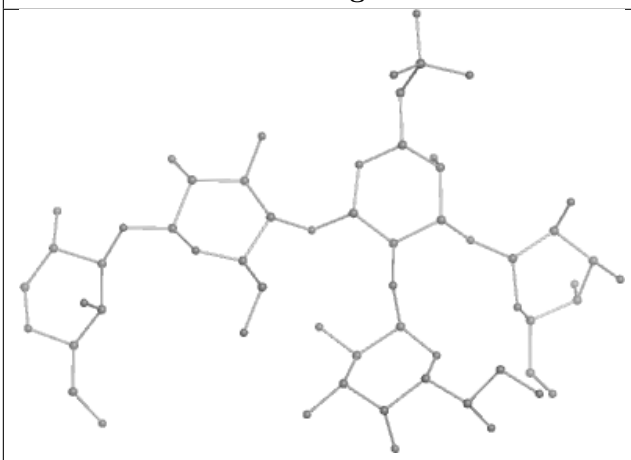
Oligosaccharide Chain dA



Bond lengths



Bond angles



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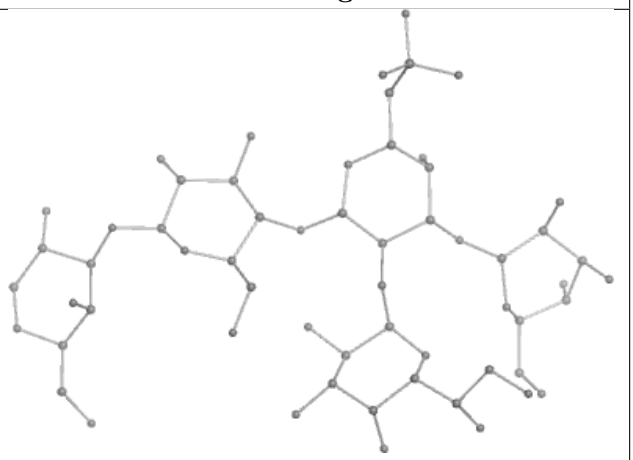
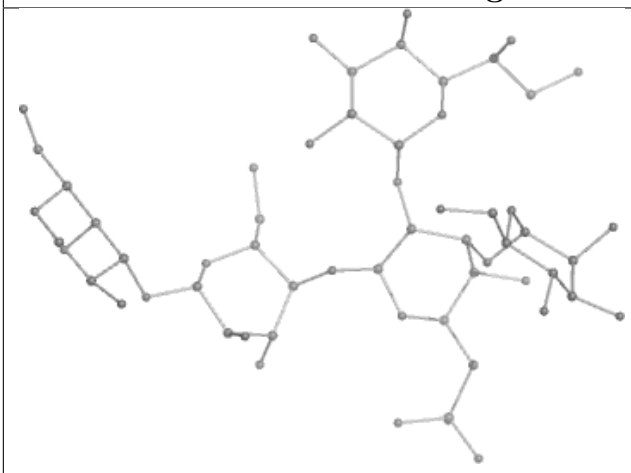


Rings

Oligosaccharide Chain eA



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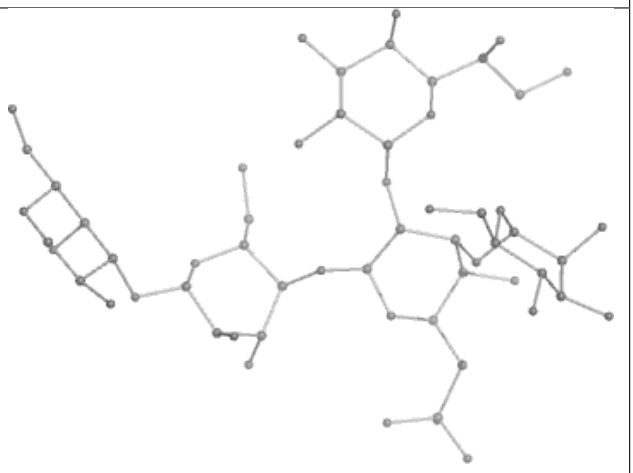
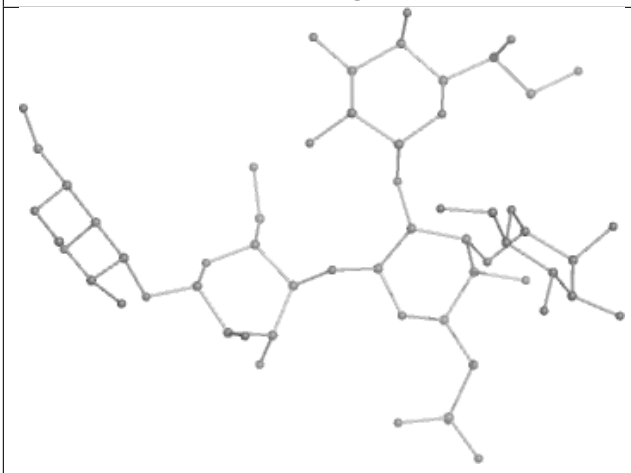


Bond angles



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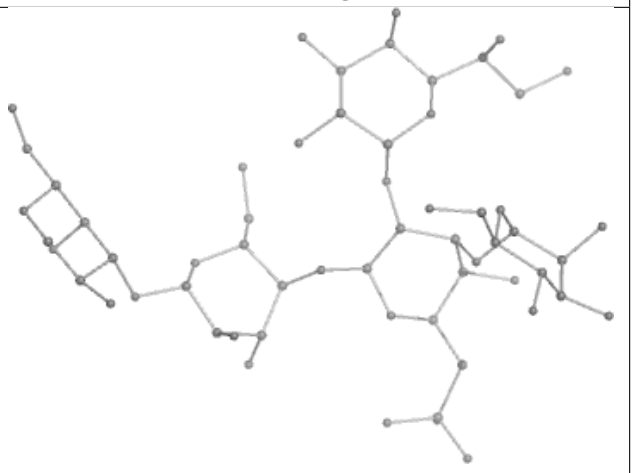
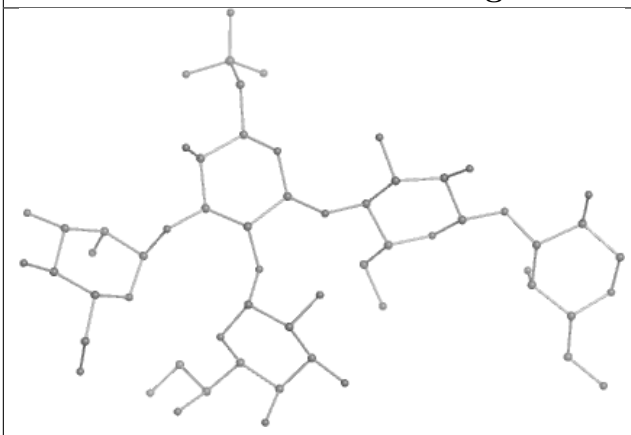


Rings

Oligosaccharide Chain gA



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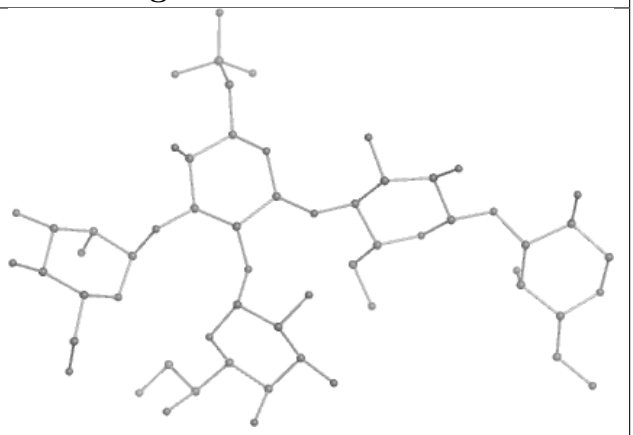
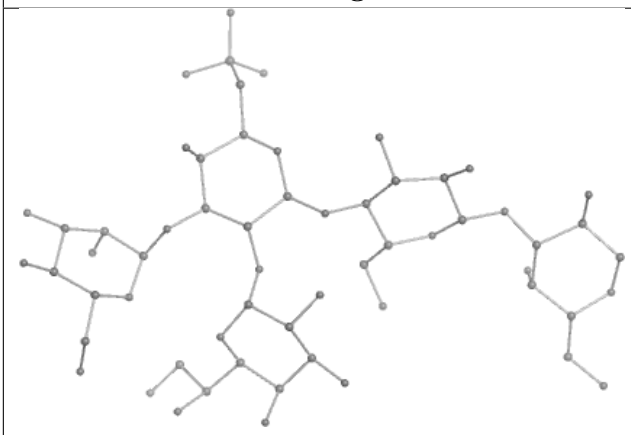


Bond angles



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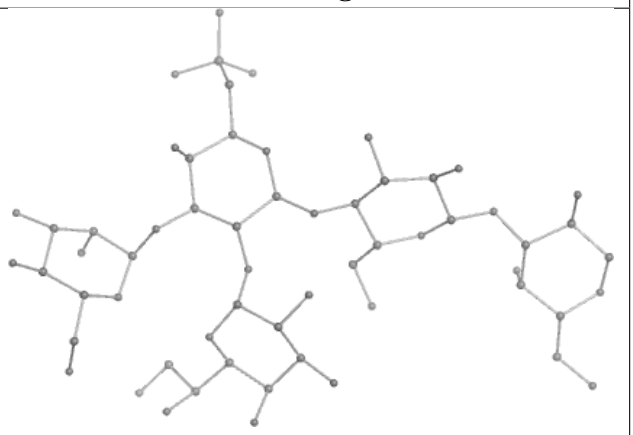
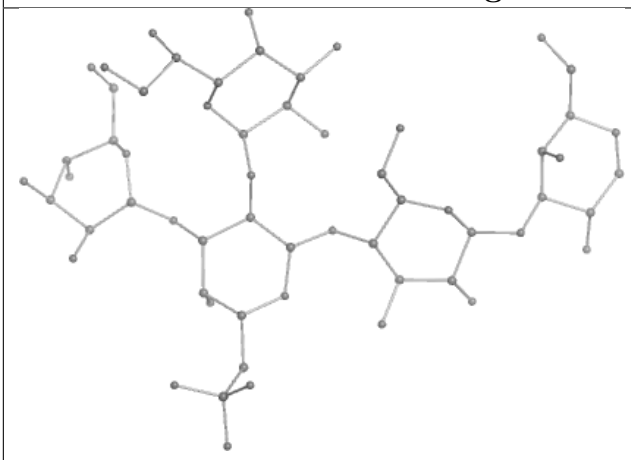


Rings

Oligosaccharide Chain kA



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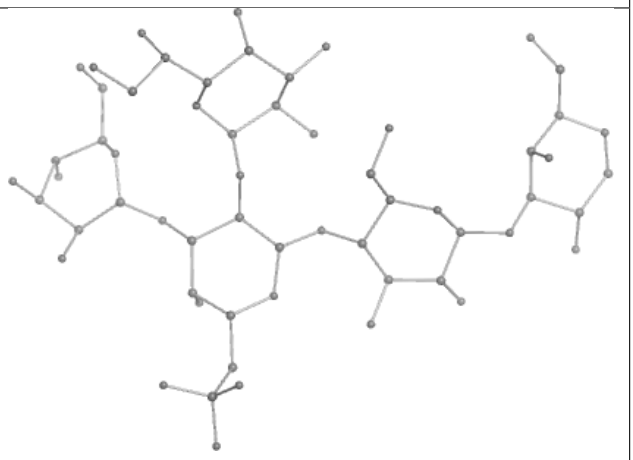

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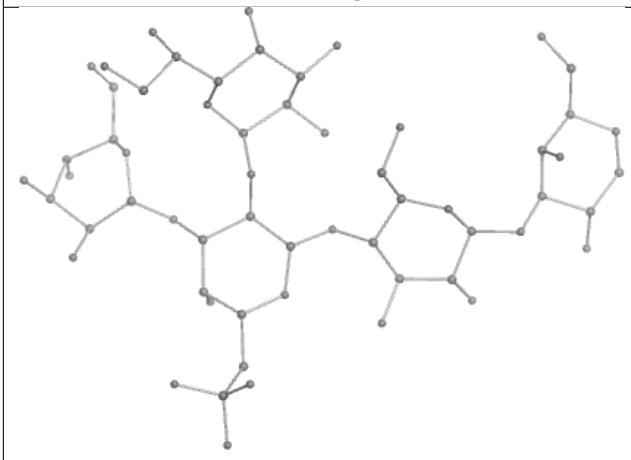
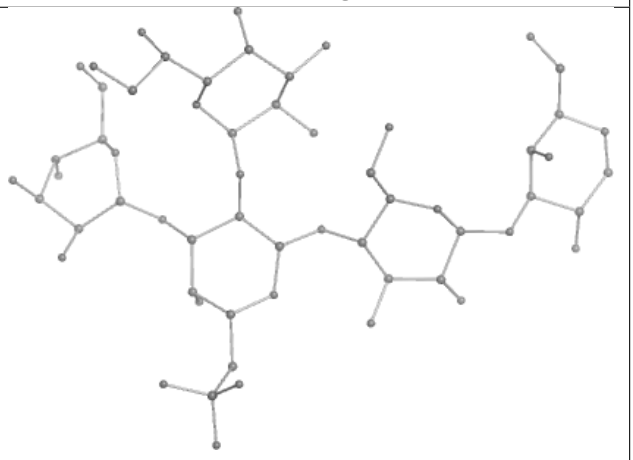
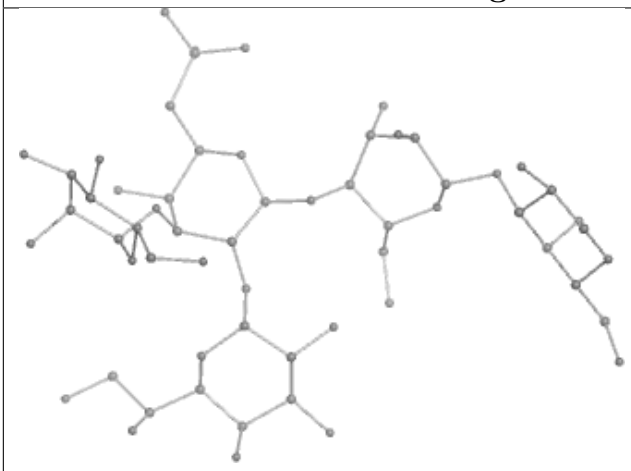


Torsions



Rings

Oligosaccharide Chain lA



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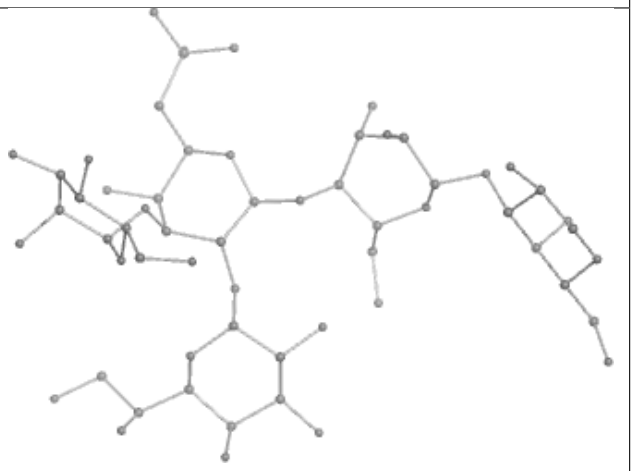
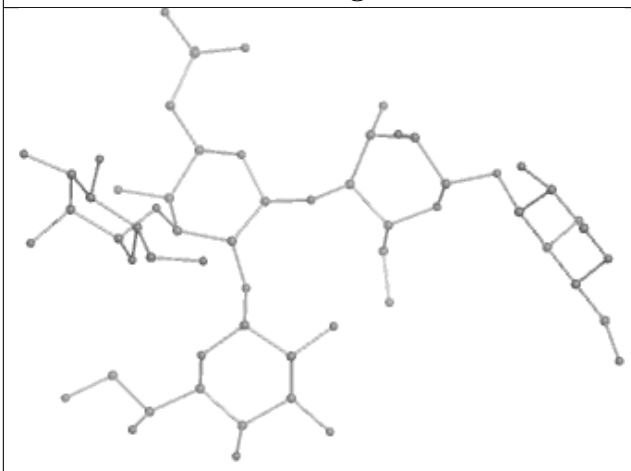


Bond angles



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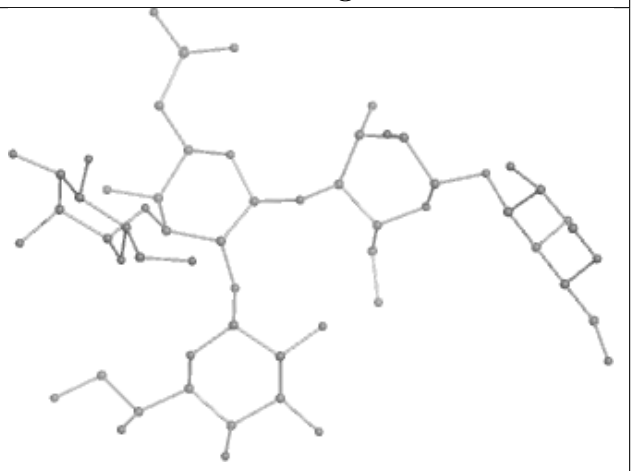
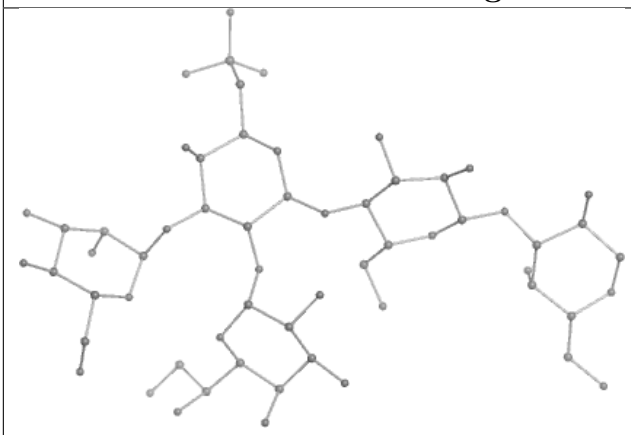


Rings

Oligosaccharide Chain nA



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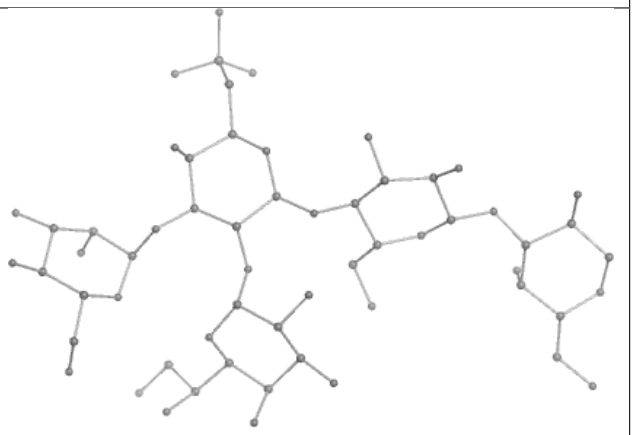
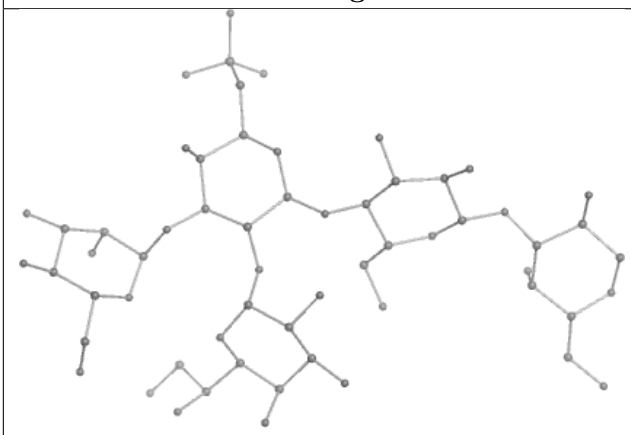


Bond angles



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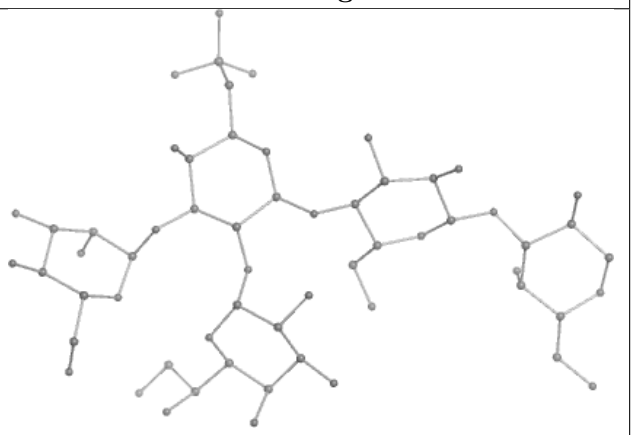
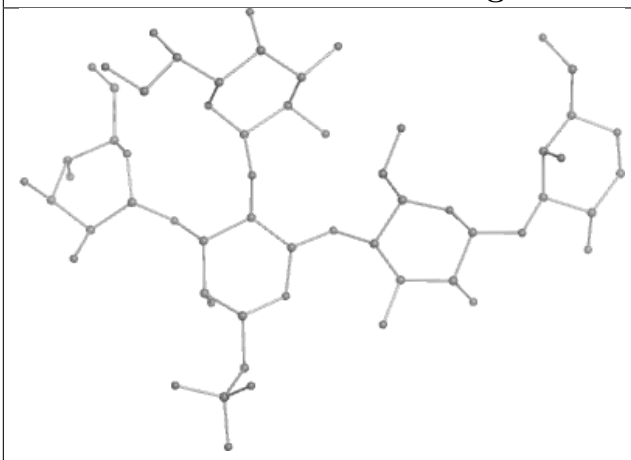


Rings

Oligosaccharide Chain rA



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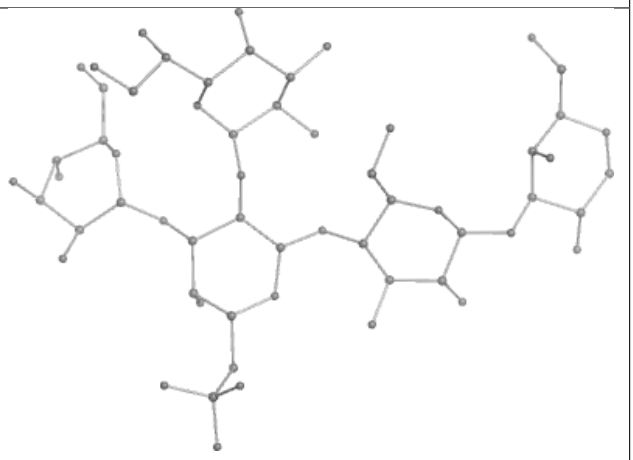

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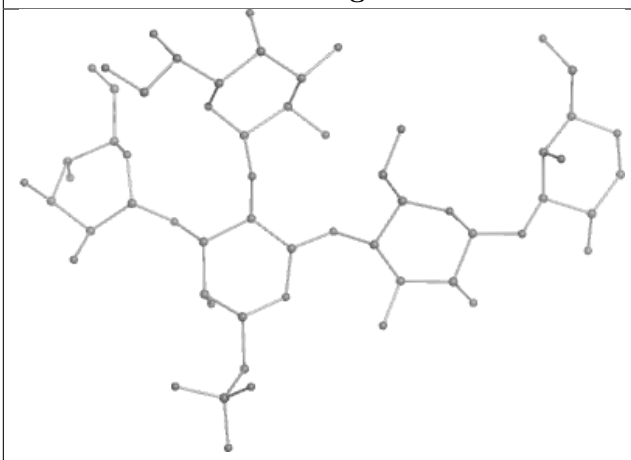

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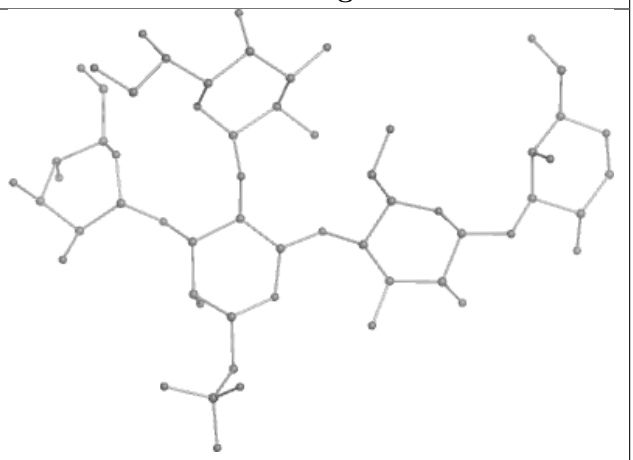
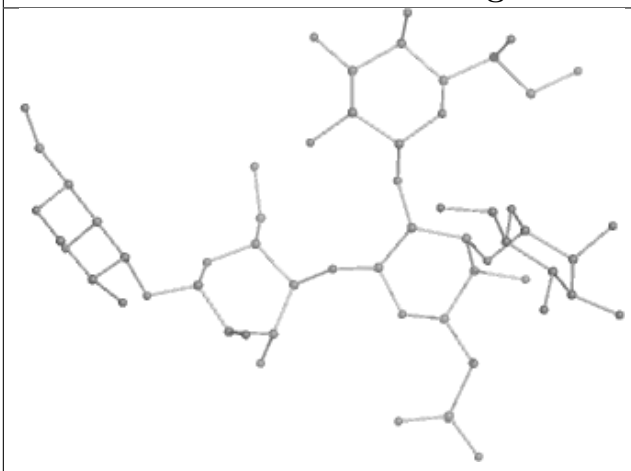


Rings

Oligosaccharide Chain sA



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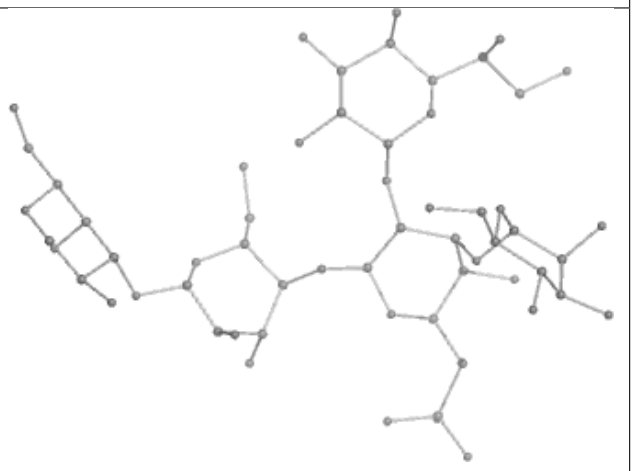
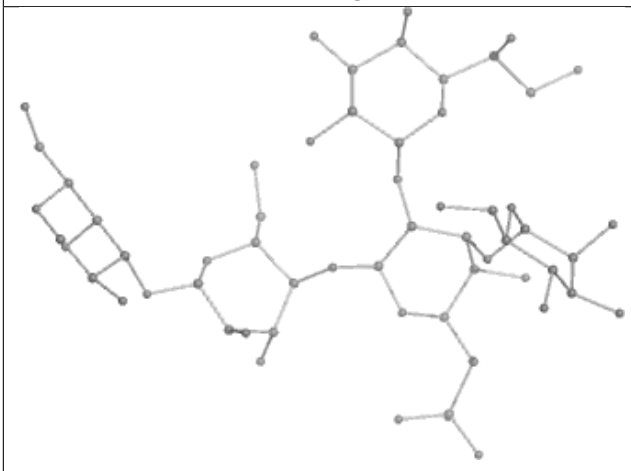


Bond angles



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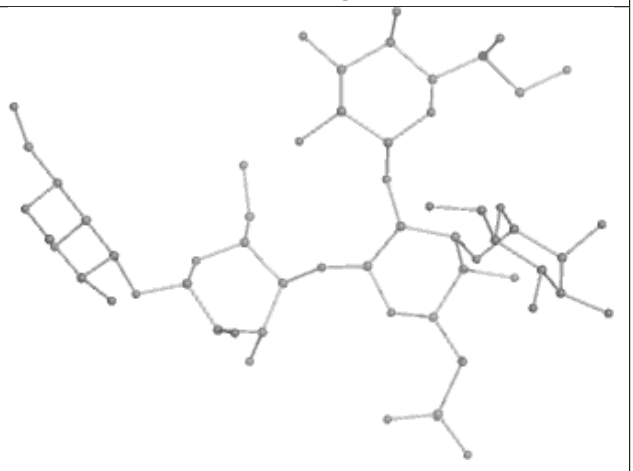
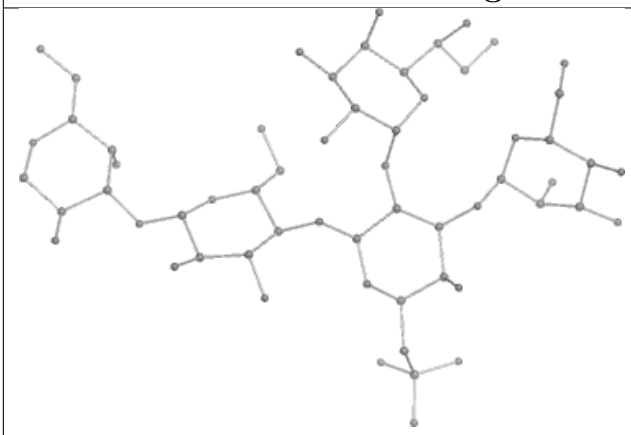


Rings

Oligosaccharide Chain uA



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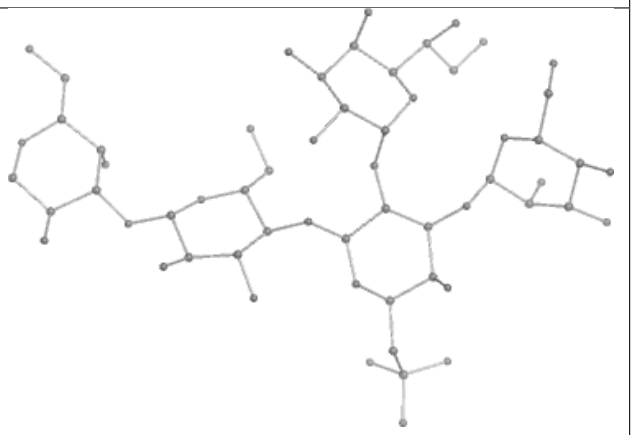
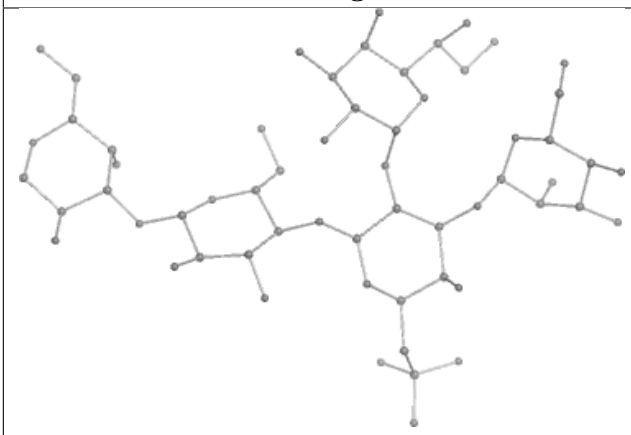


Bond angles



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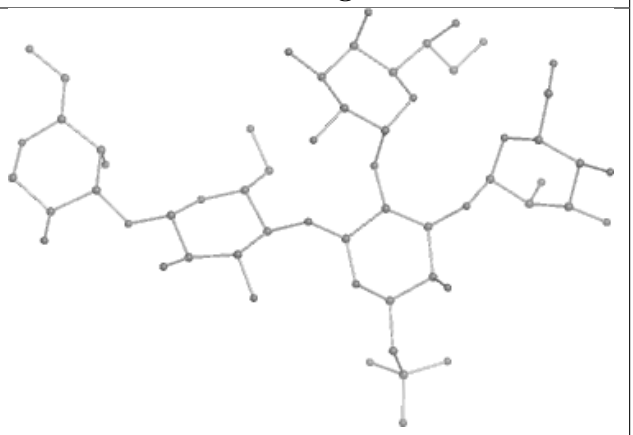
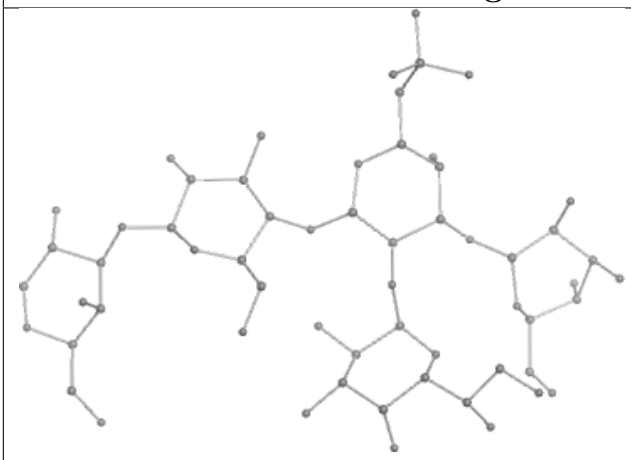


Rings

Oligosaccharide Chain yA



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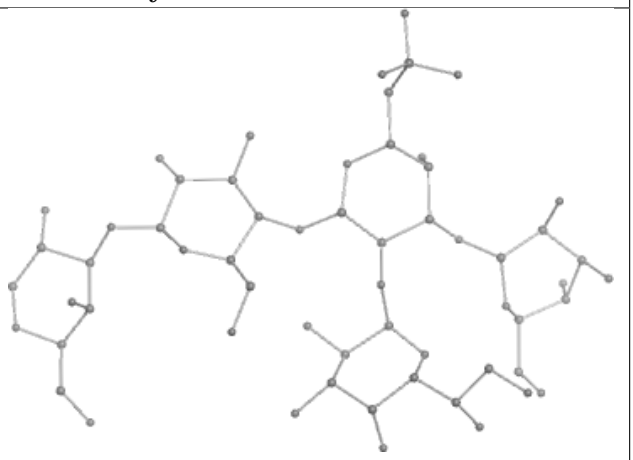
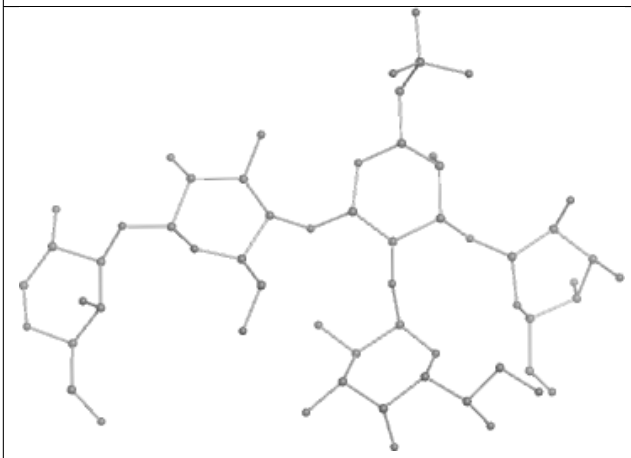


Bond angles



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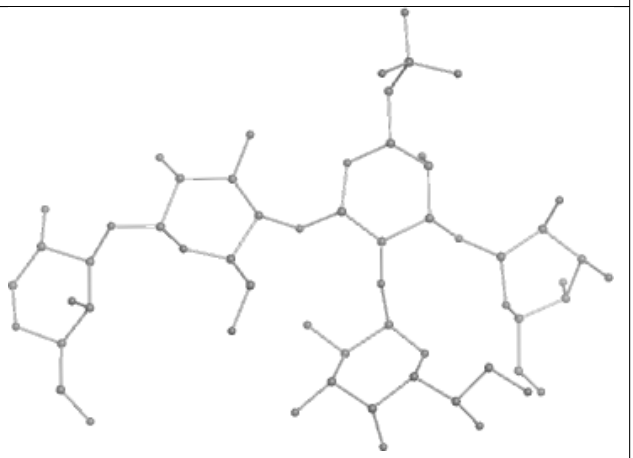
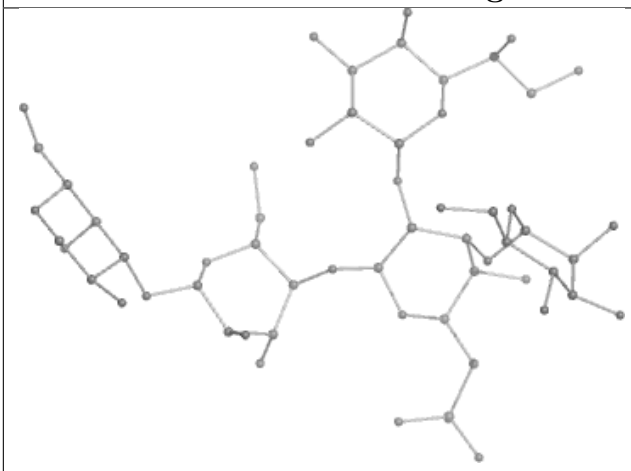


Rings

Oligosaccharide Chain zA



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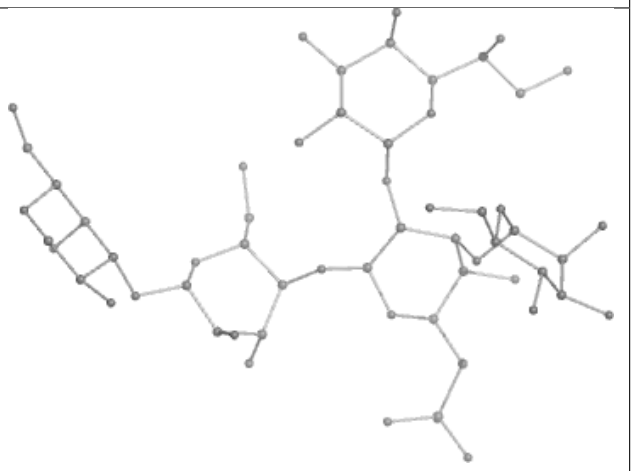
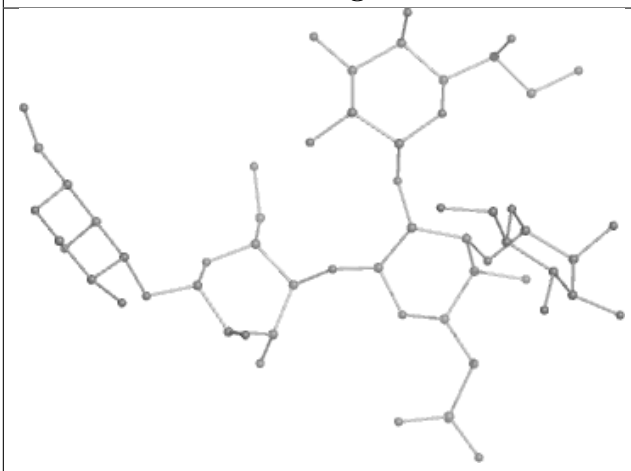
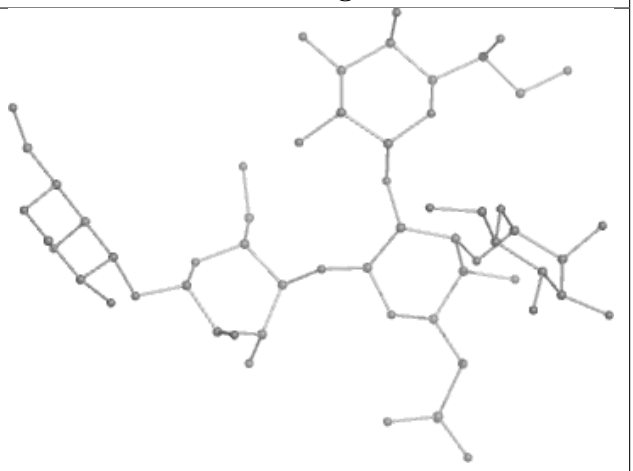


Bond angles

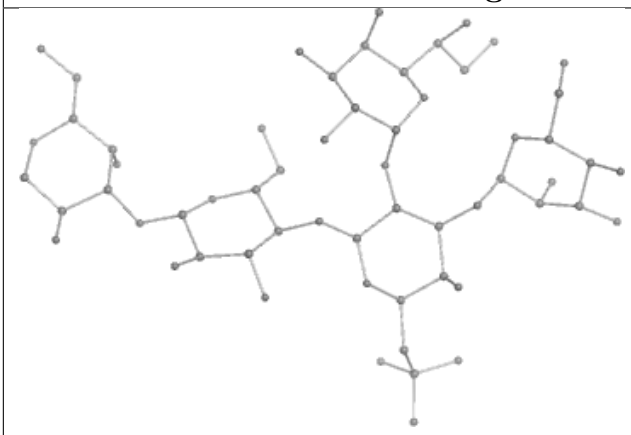


Torsions



Rings

Oligosaccharide Chain 1A



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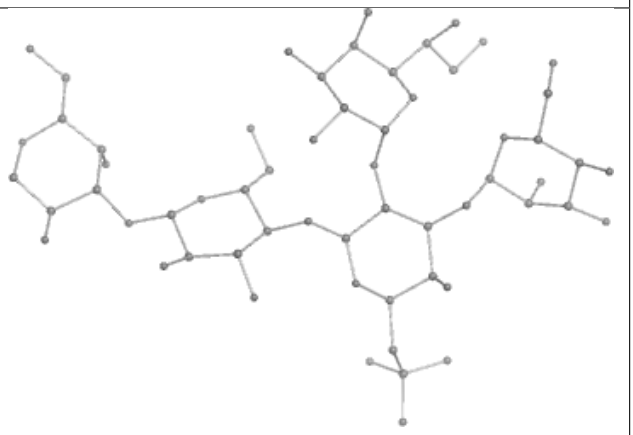
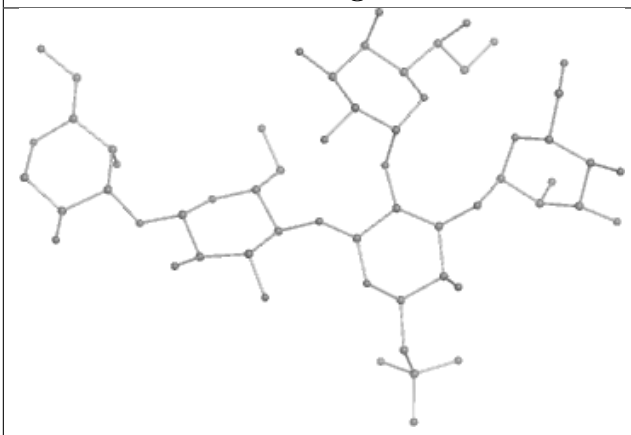


Bond angles



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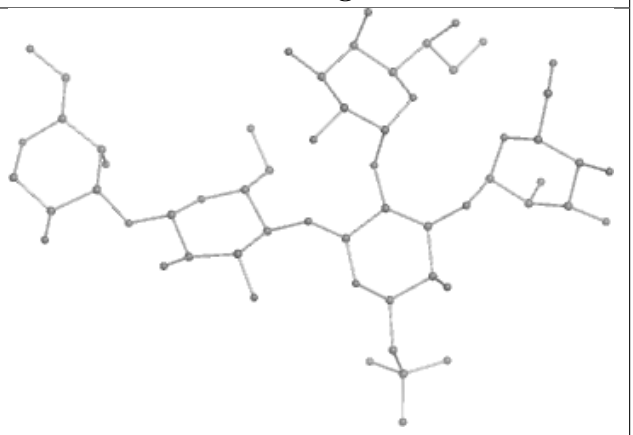
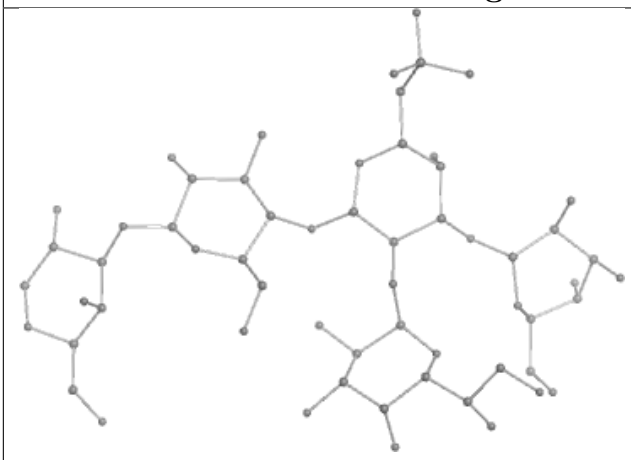
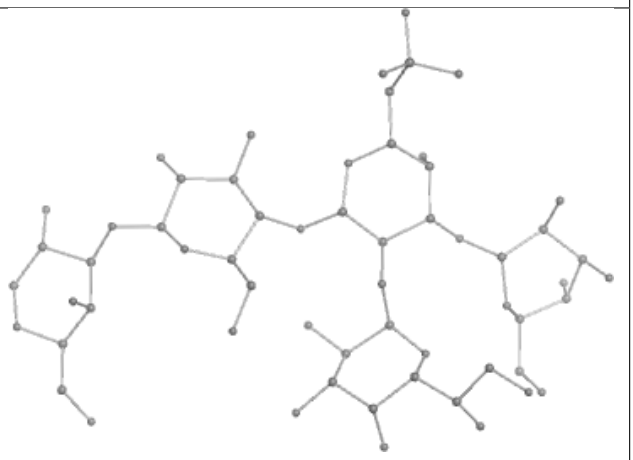


Rings

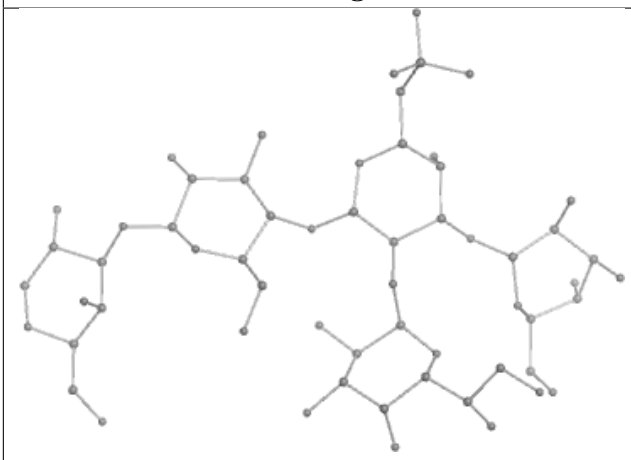
Oligosaccharide Chain 5A



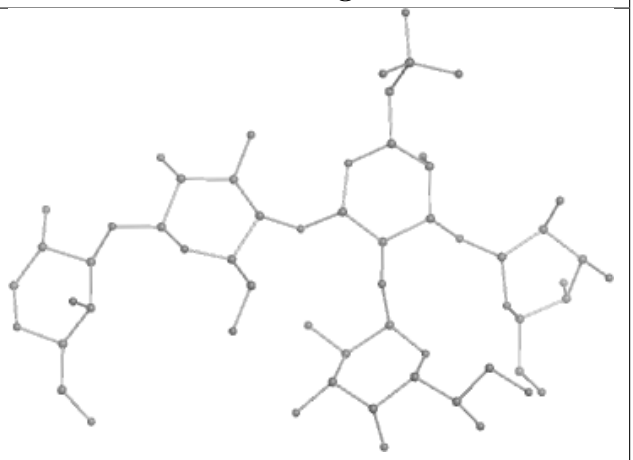
Bond lengths



Bond angles

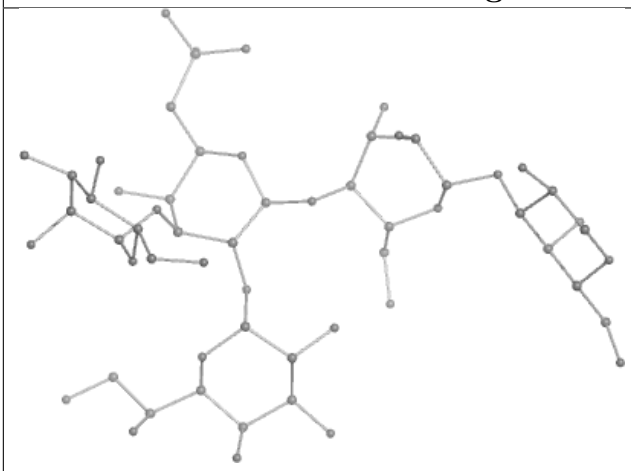


Torsions

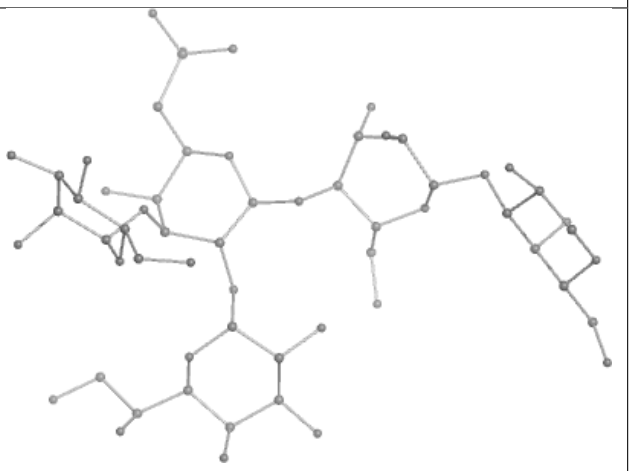


Rings

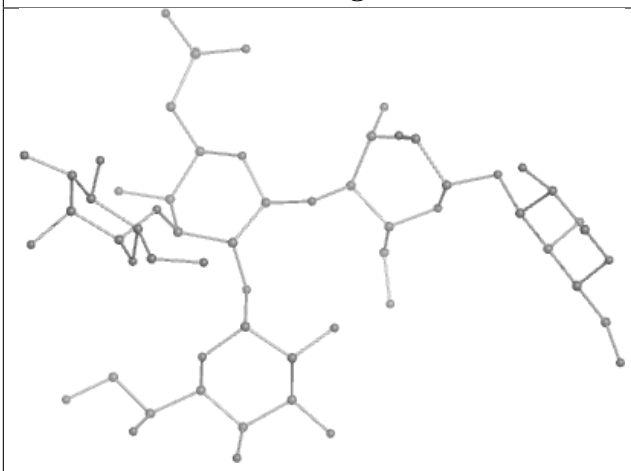
Oligosaccharide Chain 6A



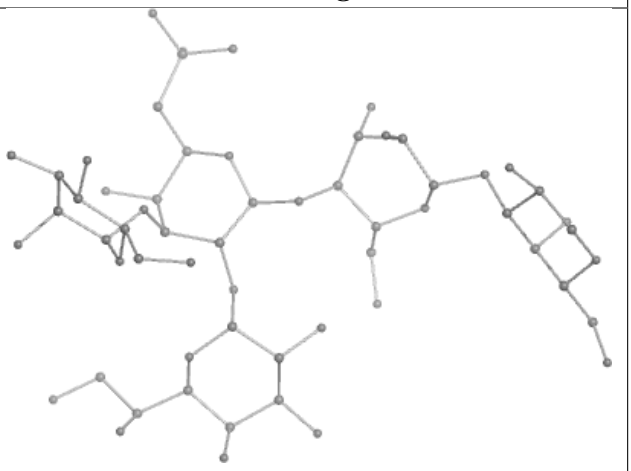
Bond lengths



Bond angles

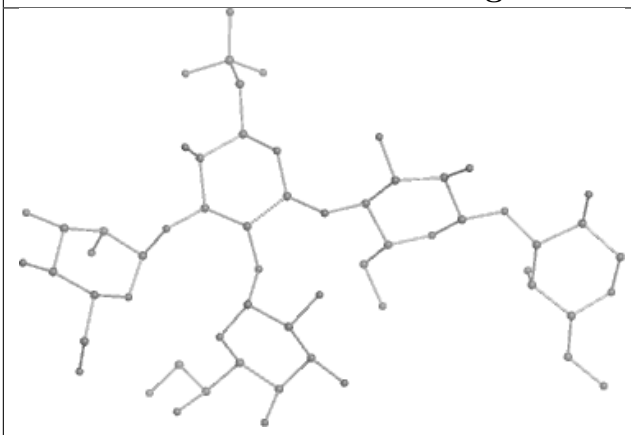


Torsions

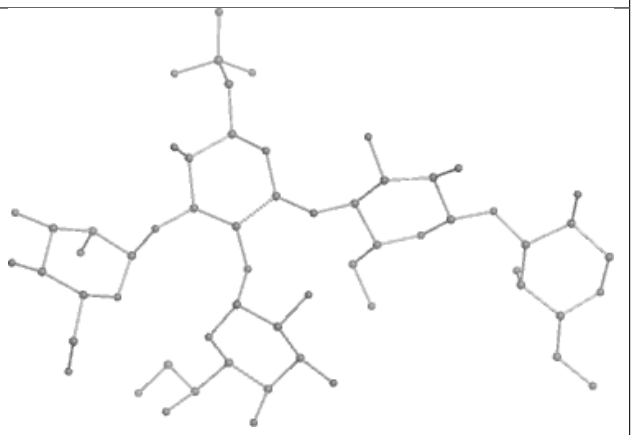


Rings

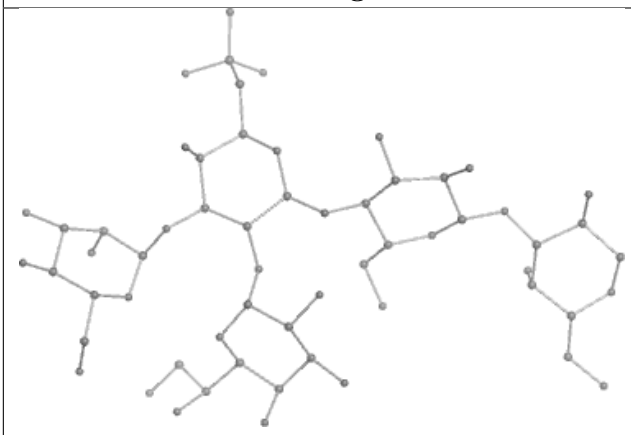
Oligosaccharide Chain 8A



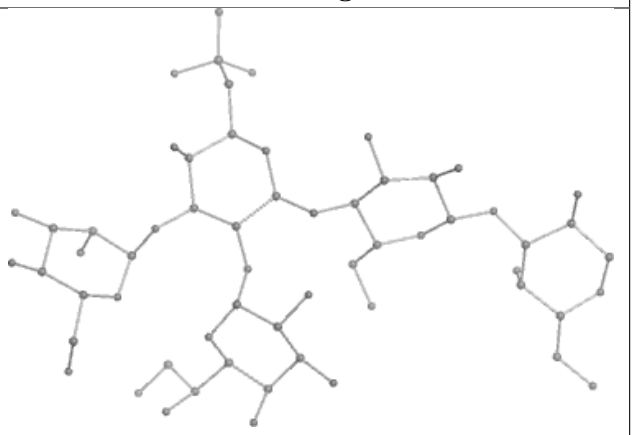
Bond lengths



Bond angles

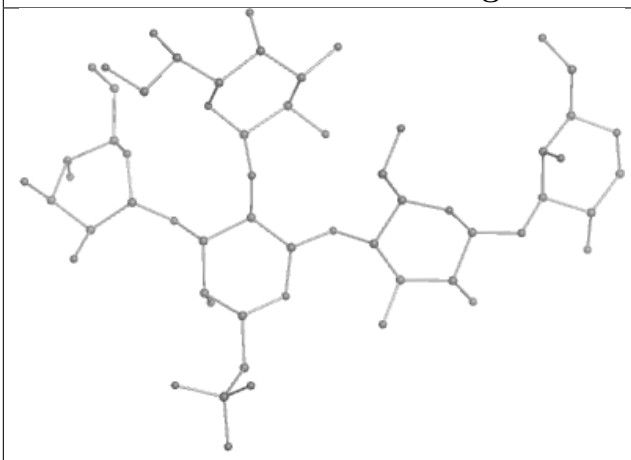


Torsions



Rings

Oligosaccharide Chain CB



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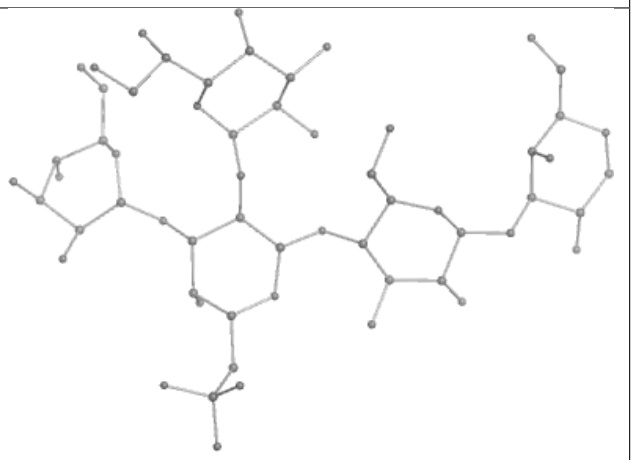

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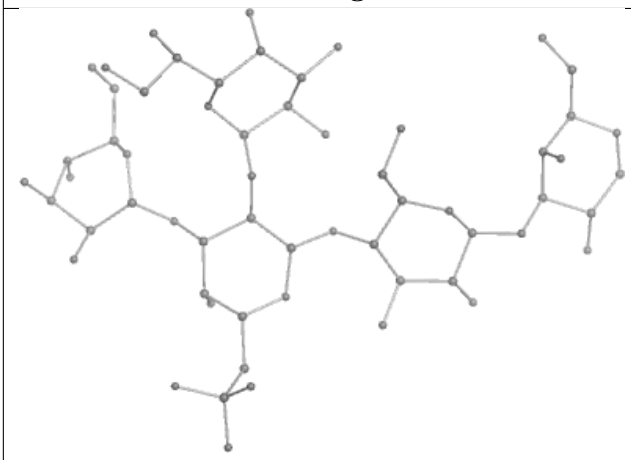

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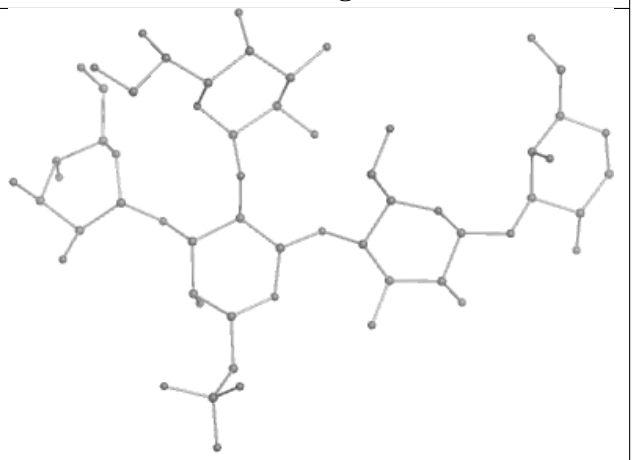
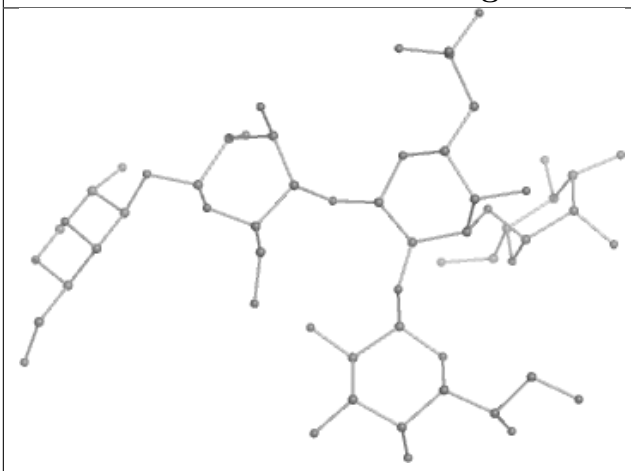


Rings

Oligosaccharide Chain DB



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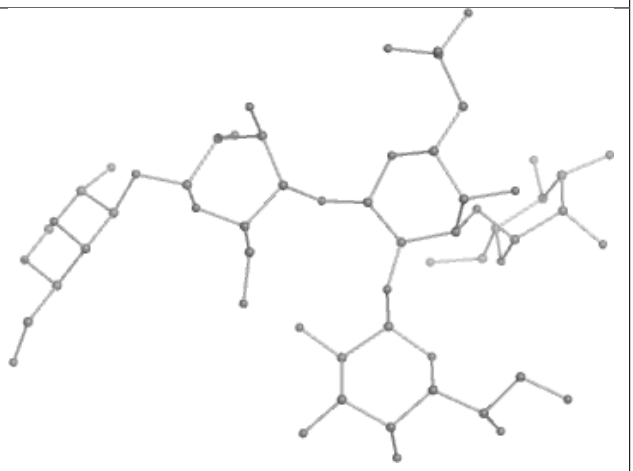

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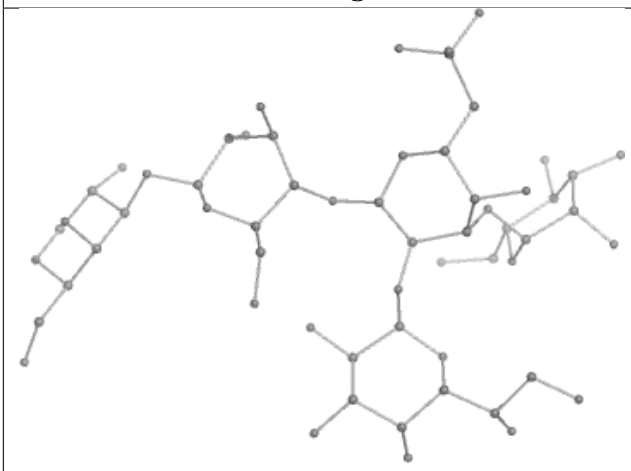

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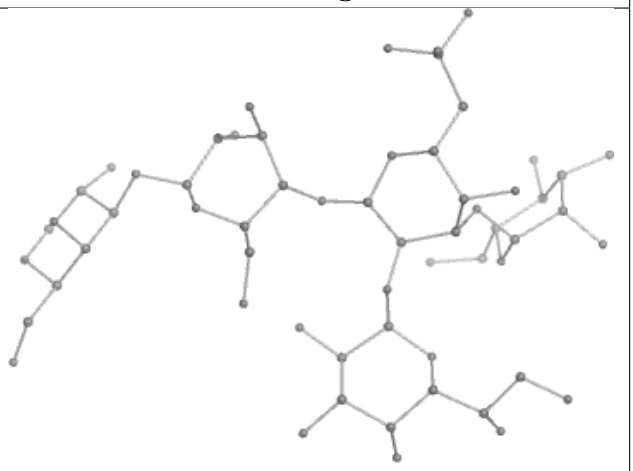
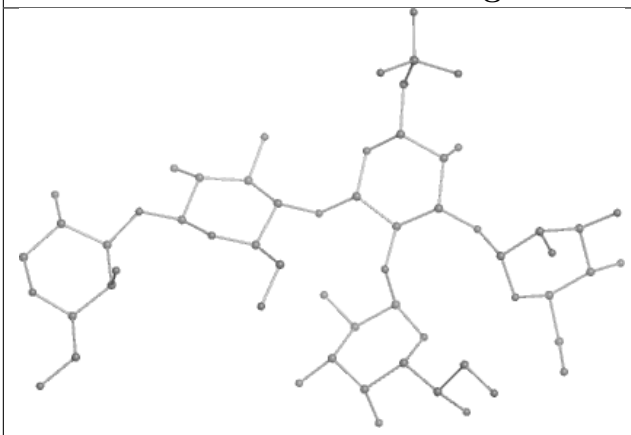


Rings

Oligosaccharide Chain FB



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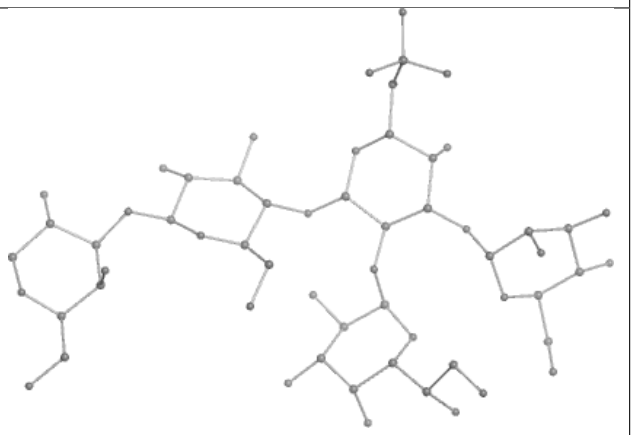

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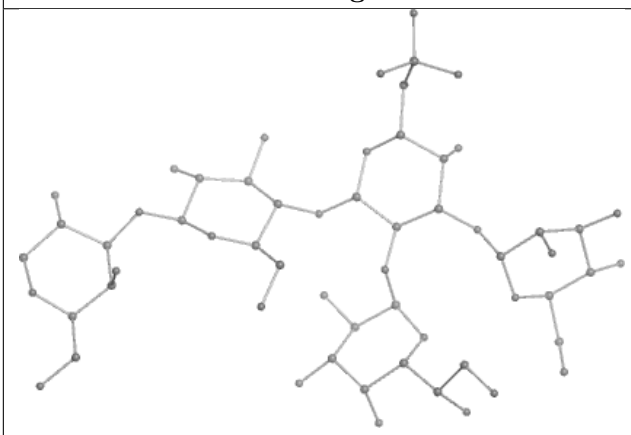

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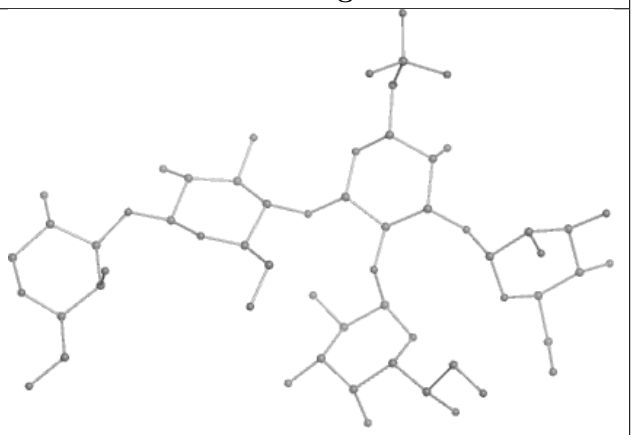
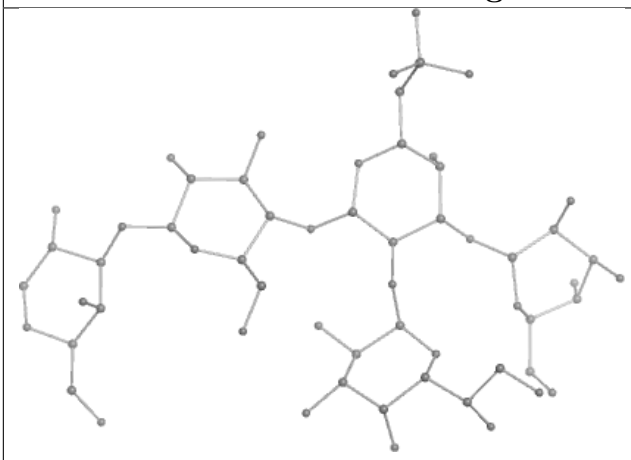


Rings

Oligosaccharide Chain JB



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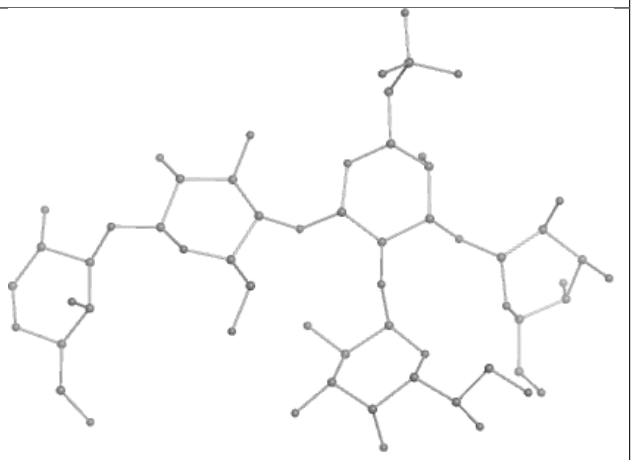

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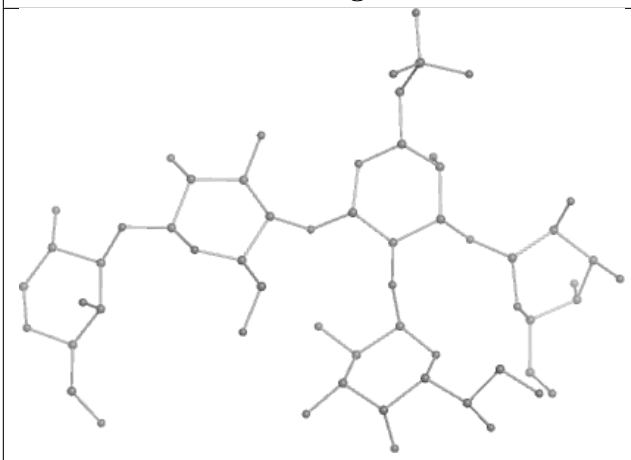

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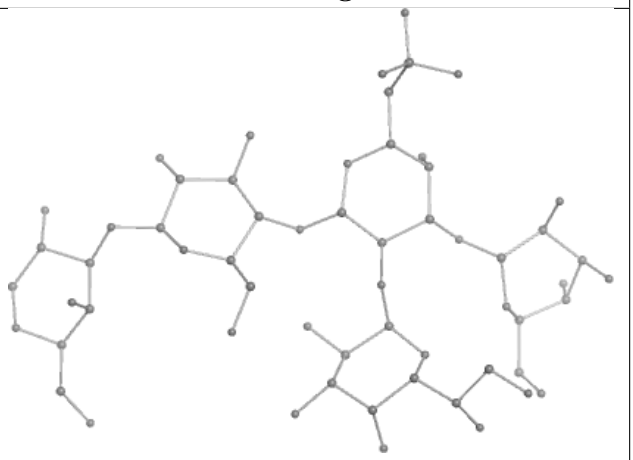
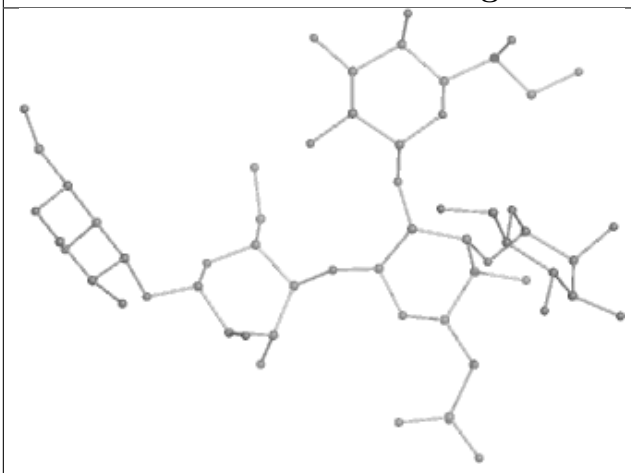


Rings

Oligosaccharide Chain KB



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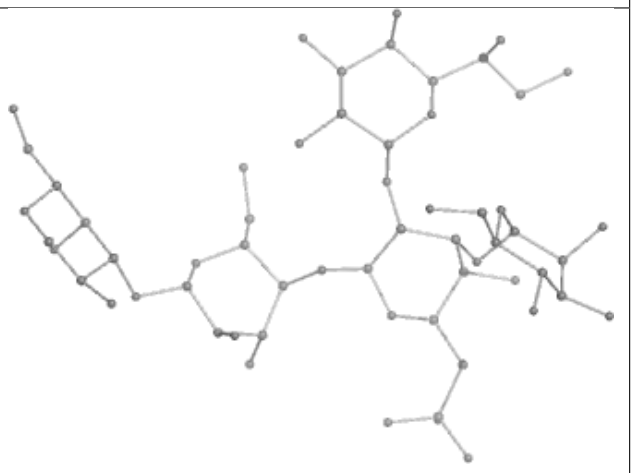

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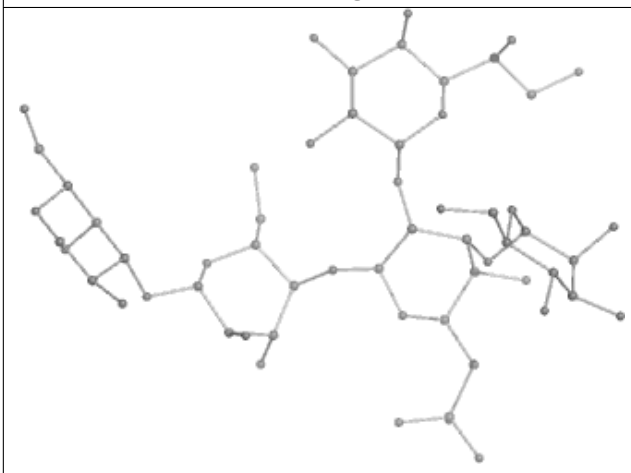

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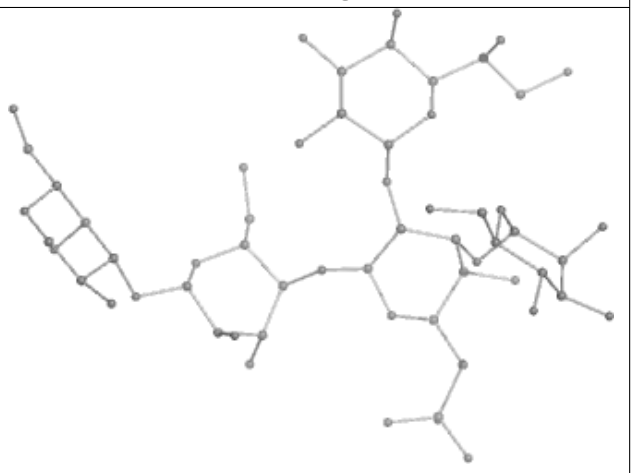
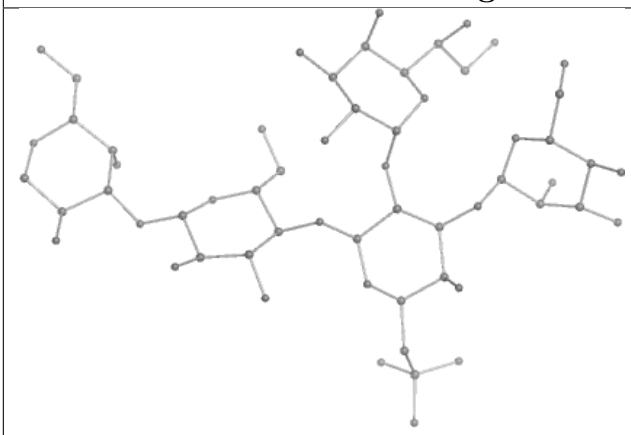


Rings

Oligosaccharide Chain MB



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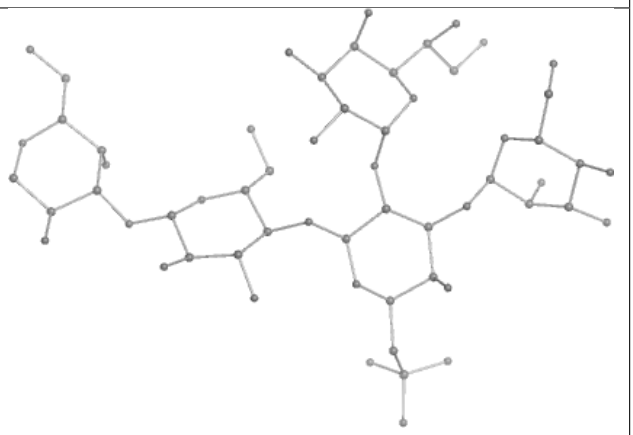

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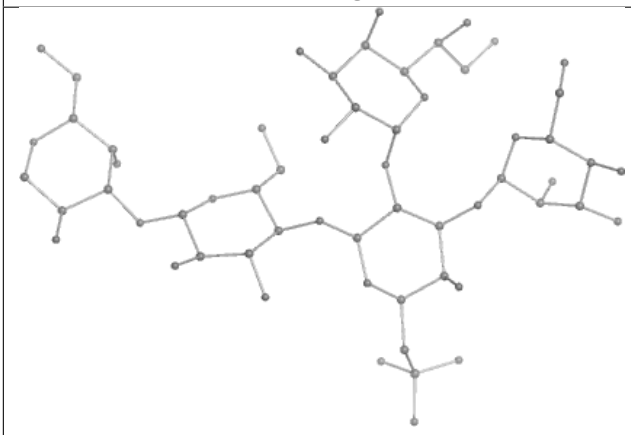

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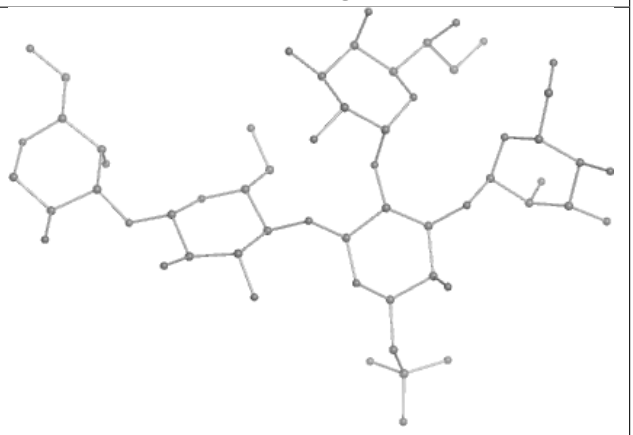
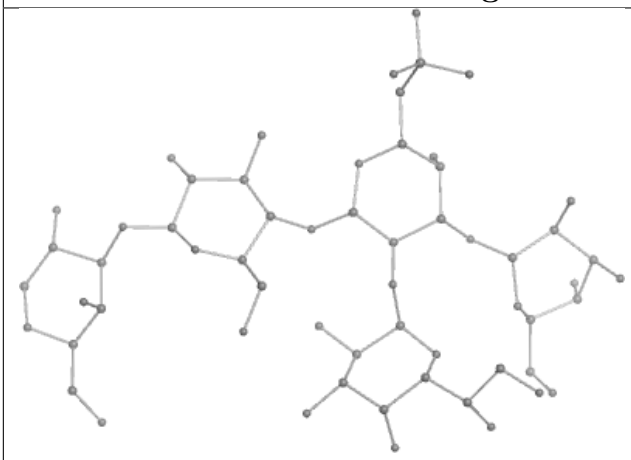


Rings

Oligosaccharide Chain QB



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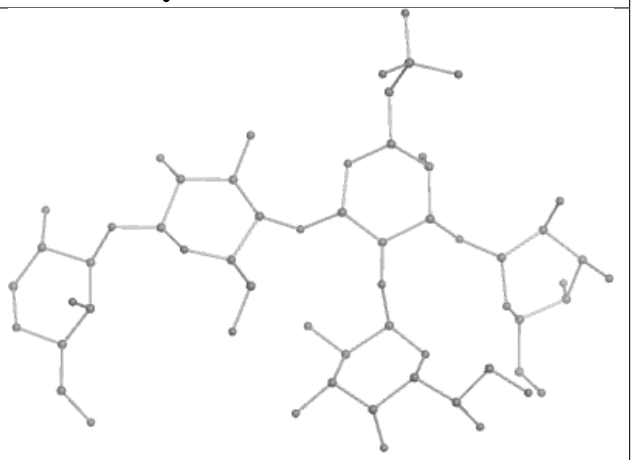

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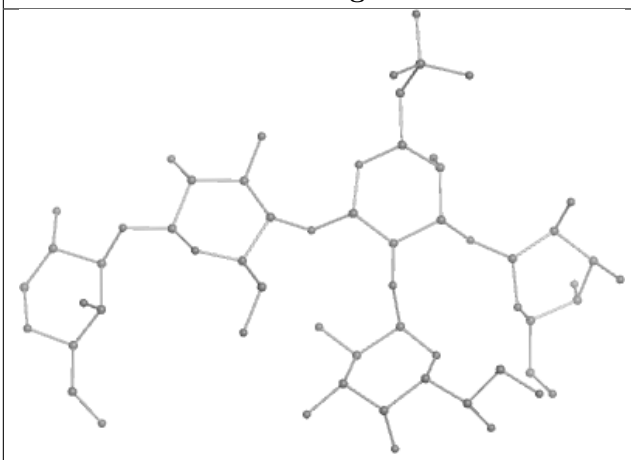

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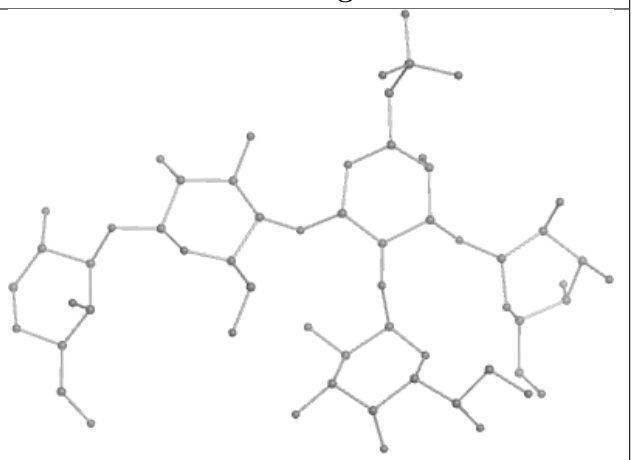
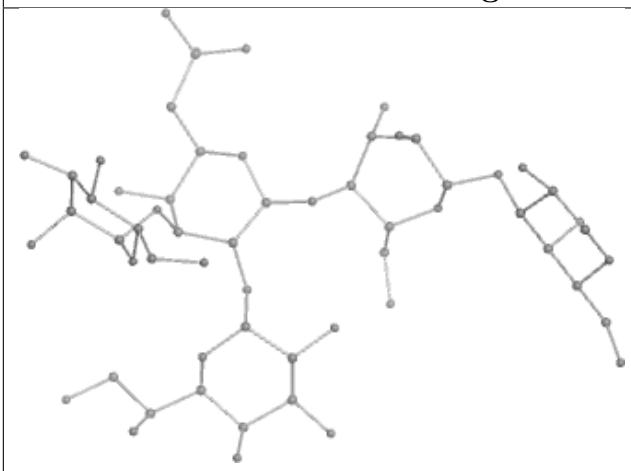


Rings

Oligosaccharide Chain RB



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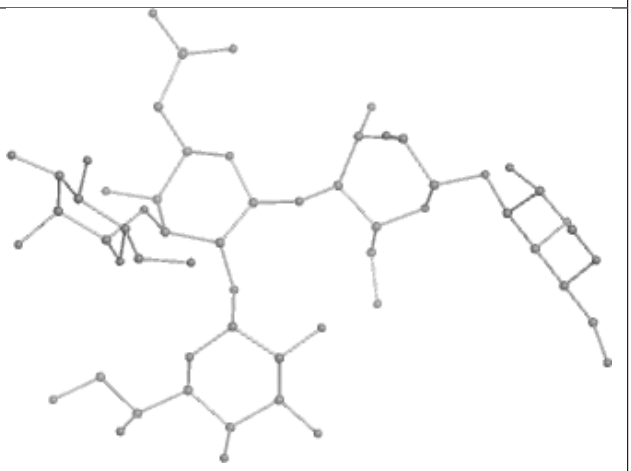

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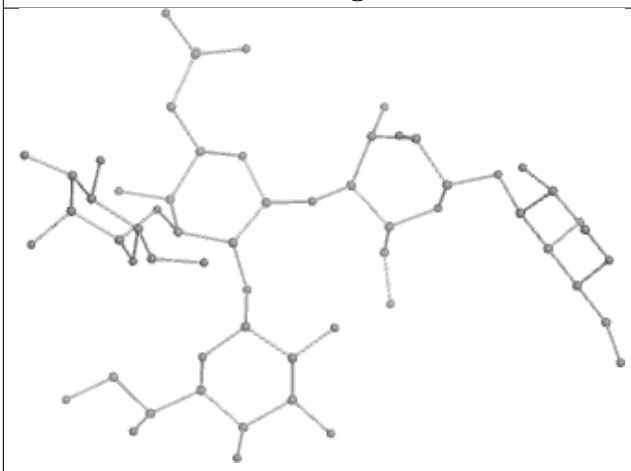

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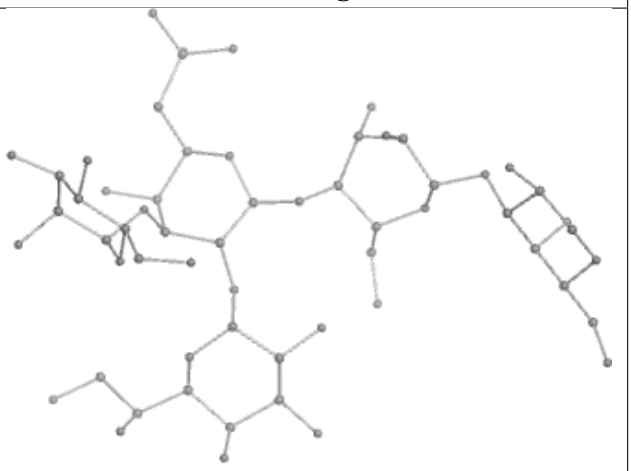
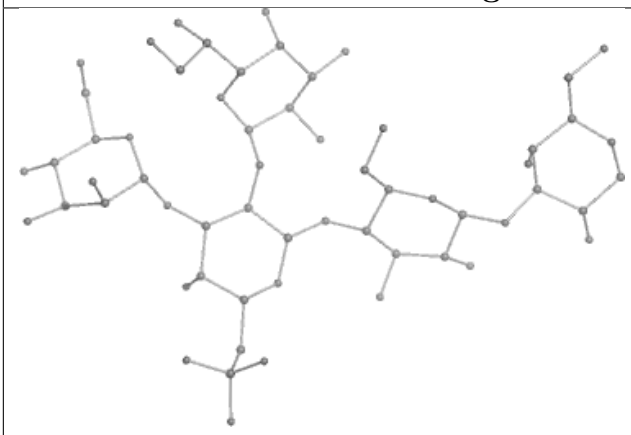
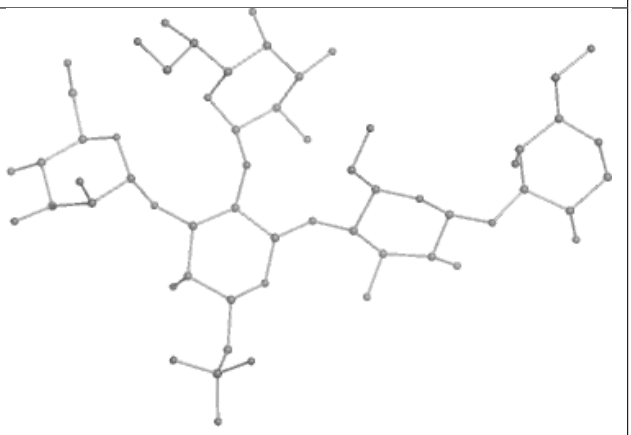
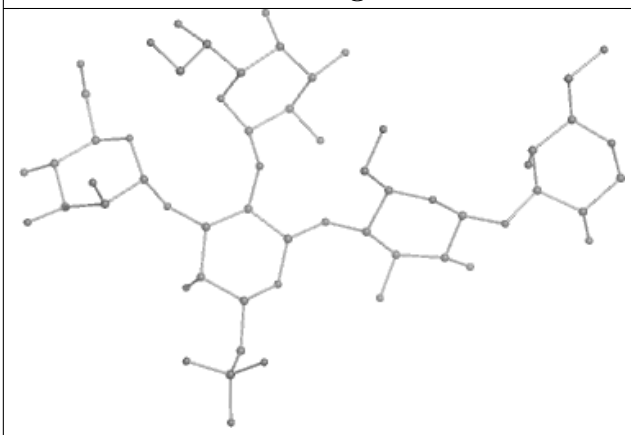
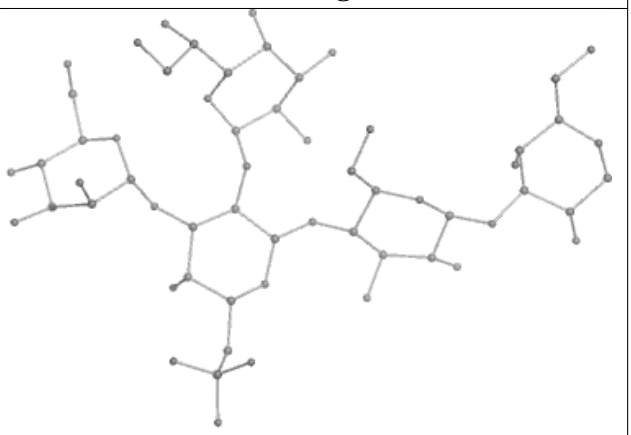
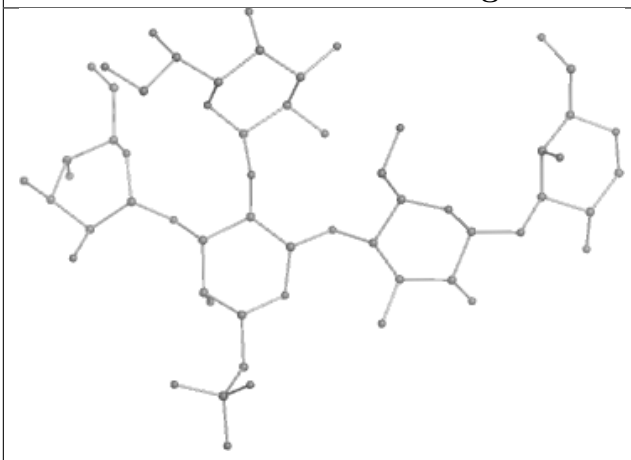


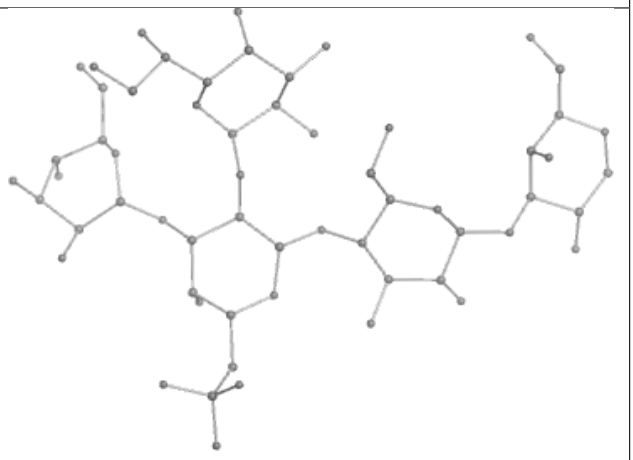
Rings

Oligosaccharide Chain TB	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

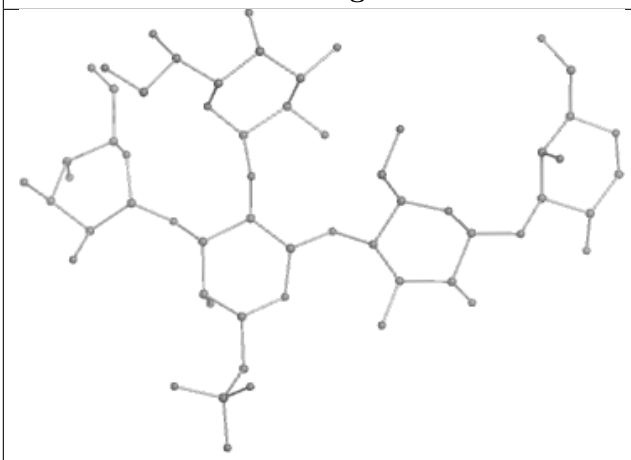
Oligosaccharide Chain XB



Bond lengths



Bond angles



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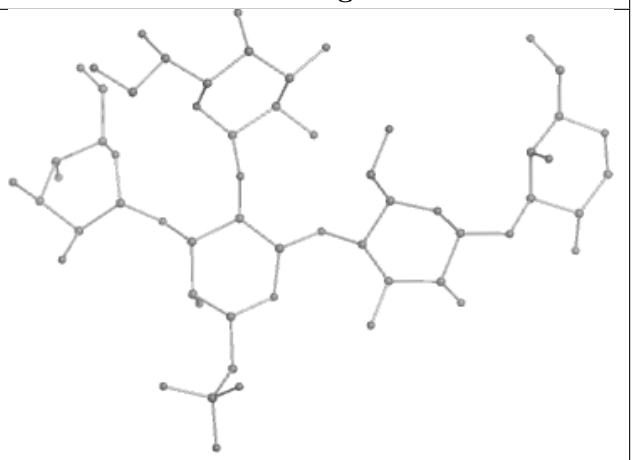
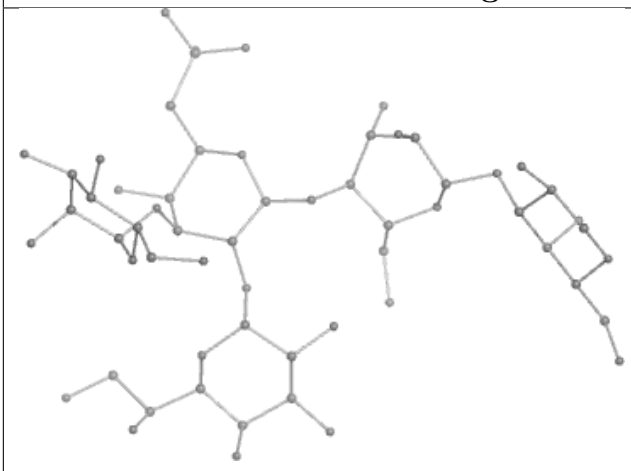


Rings

Oligosaccharide Chain YB



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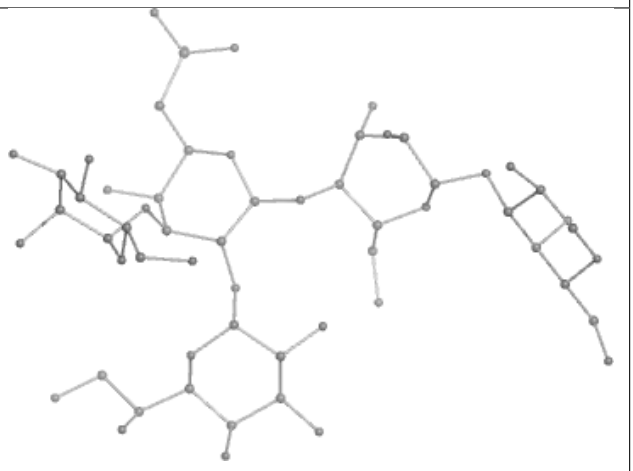
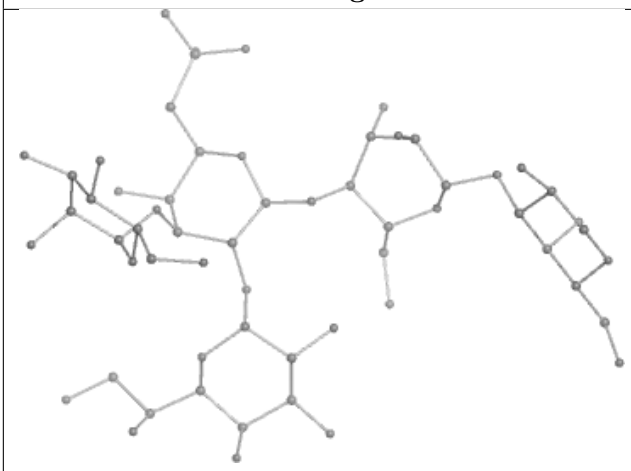


Bond angles



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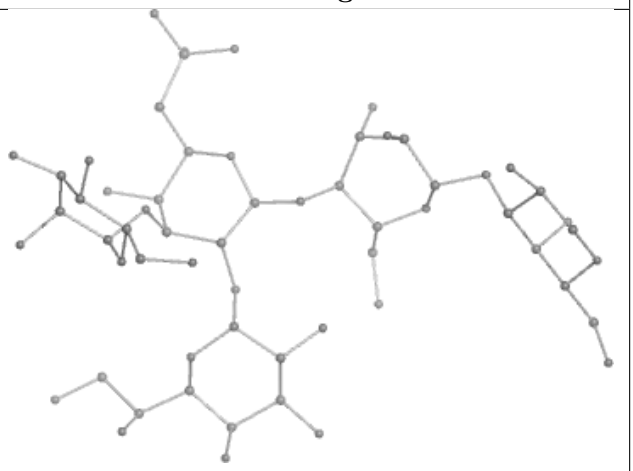
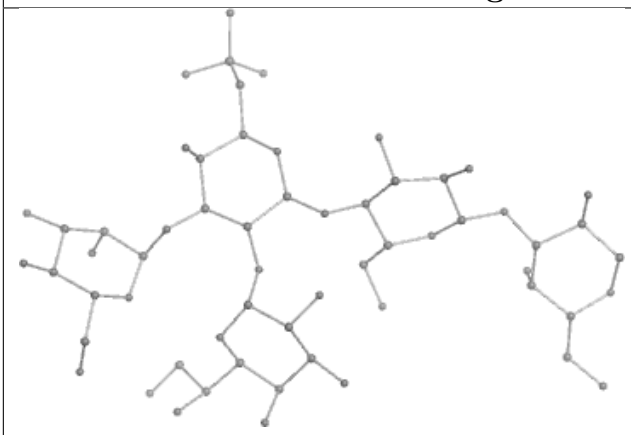
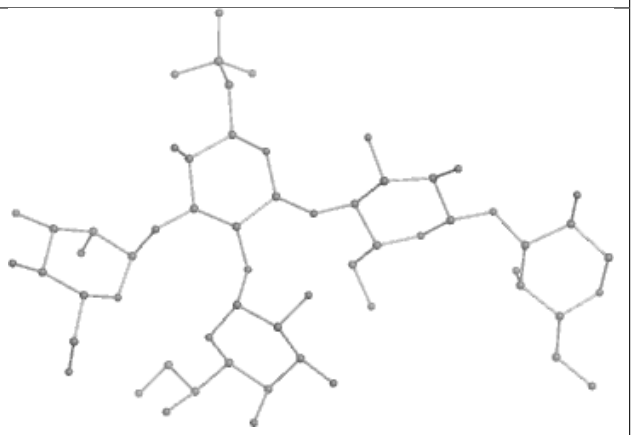
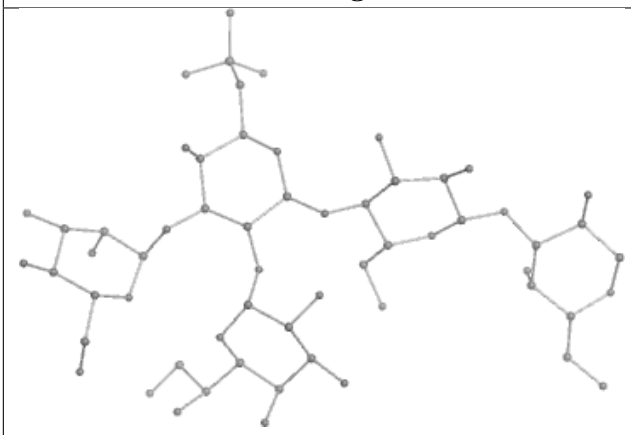
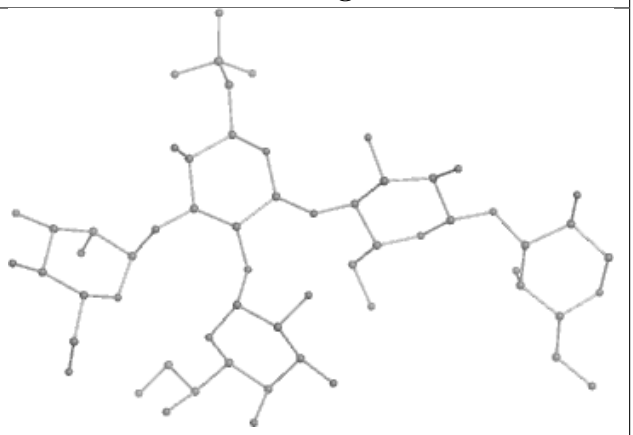
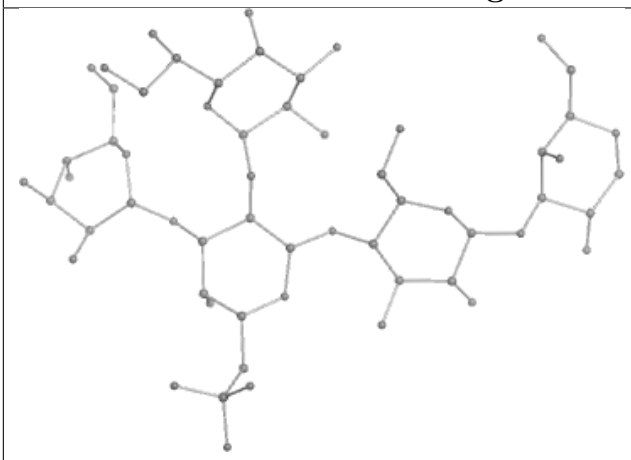


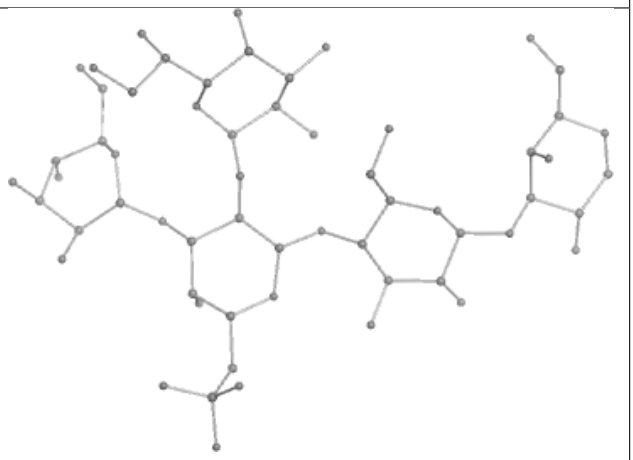
Rings

Oligosaccharide Chain aB	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

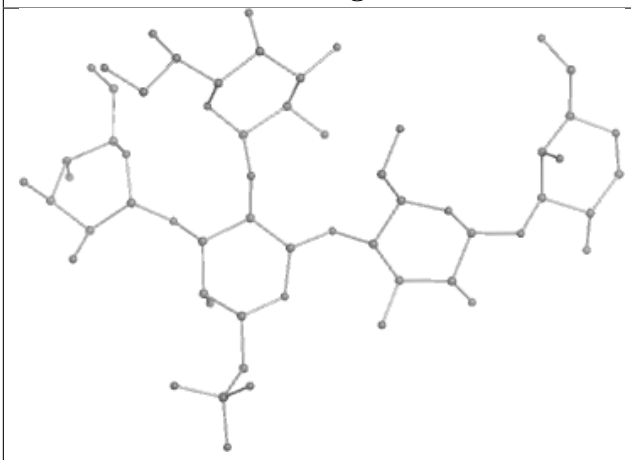
Oligosaccharide Chain eB



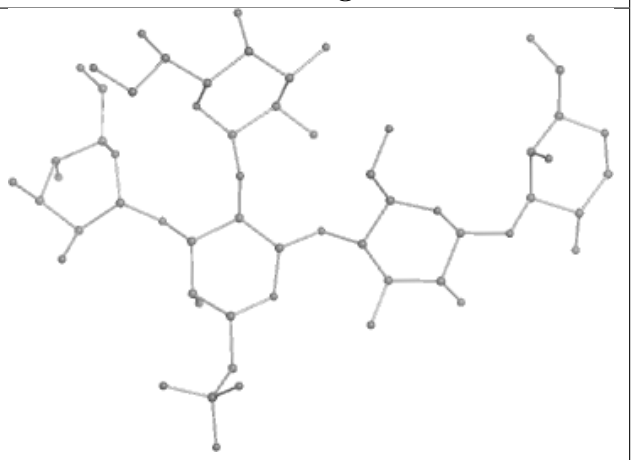
Bond lengths



Bond angles

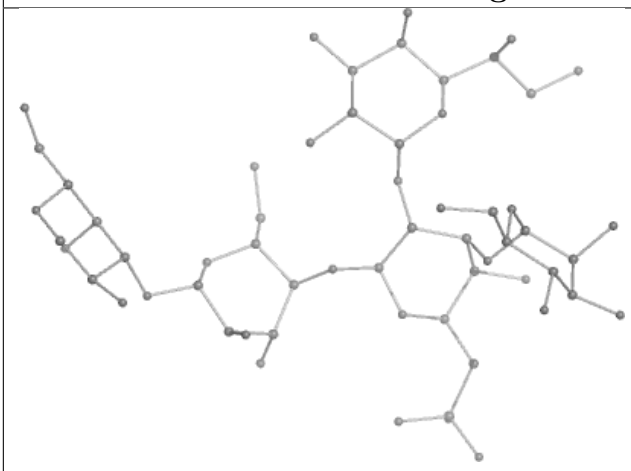


Torsions

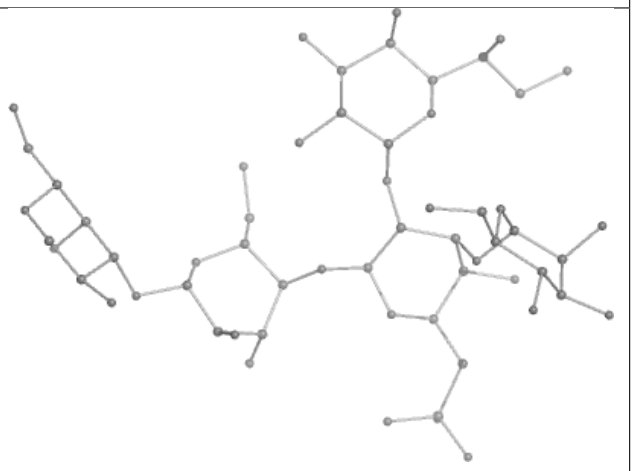


Rings

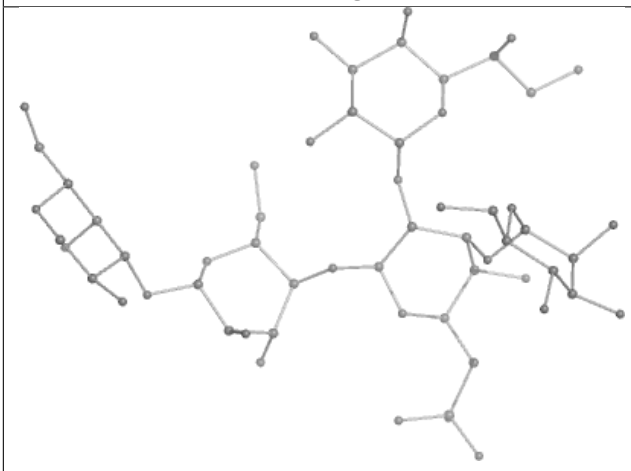
Oligosaccharide Chain fB



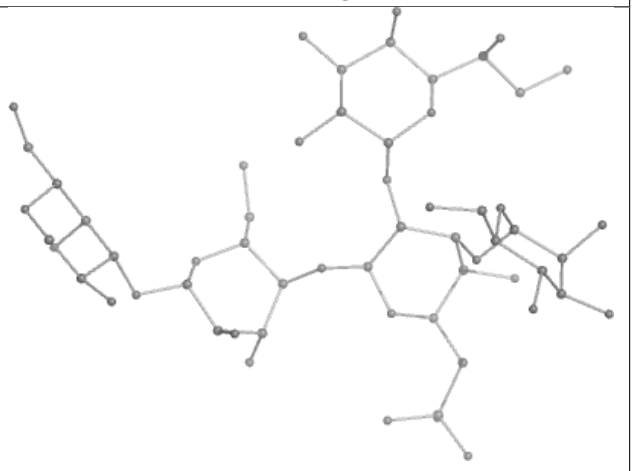
Bond lengths



Bond angles

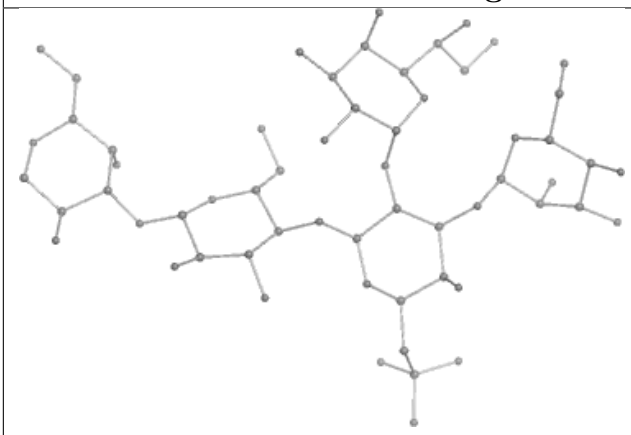


Torsions

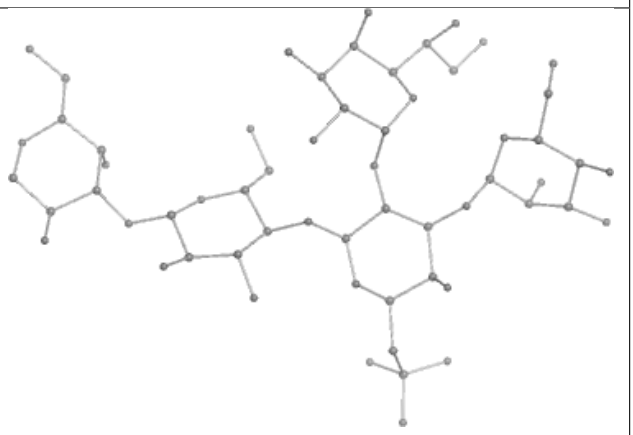


Rings

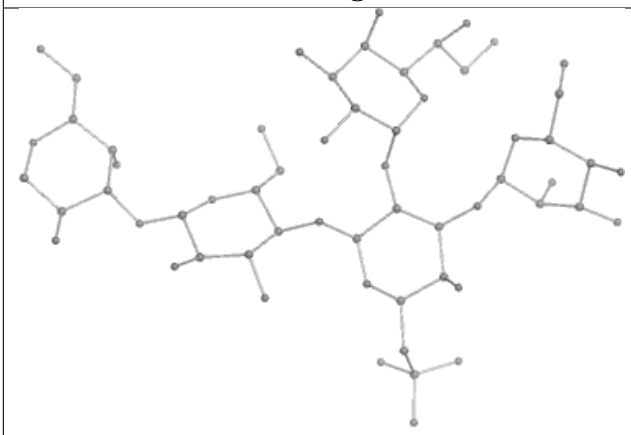
Oligosaccharide Chain hB



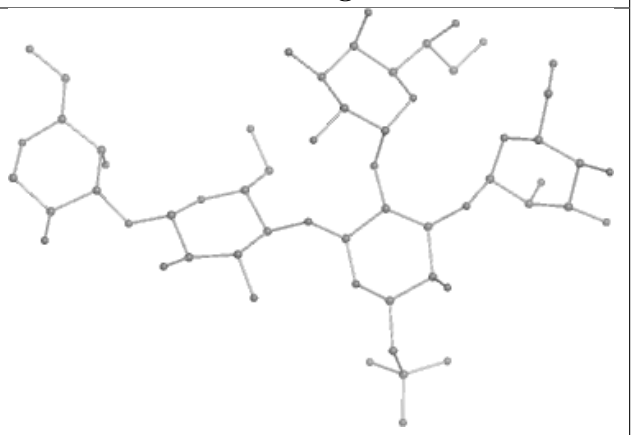
Bond lengths



Bond angles

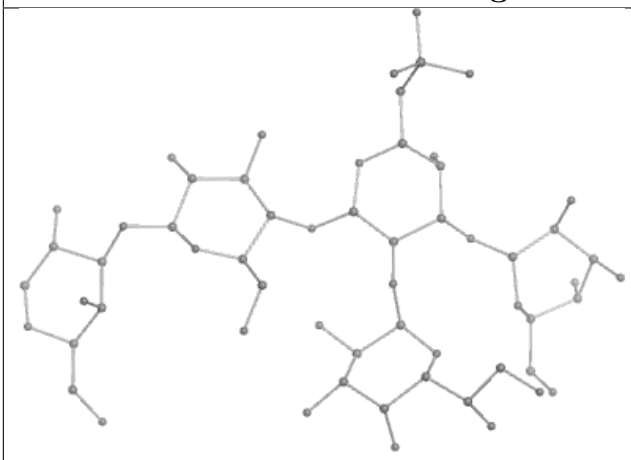


Torsions



Rings

Oligosaccharide Chain lB



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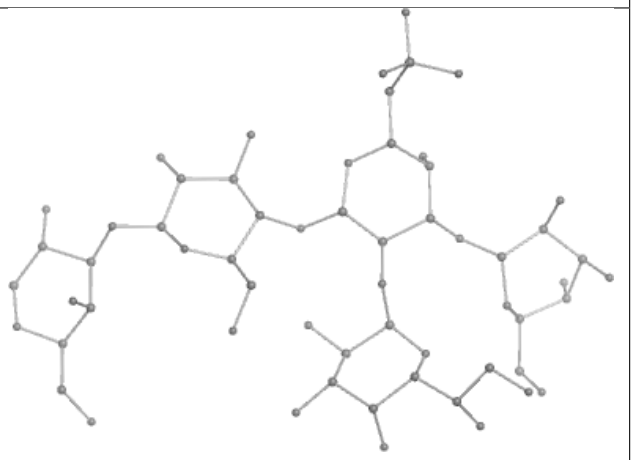
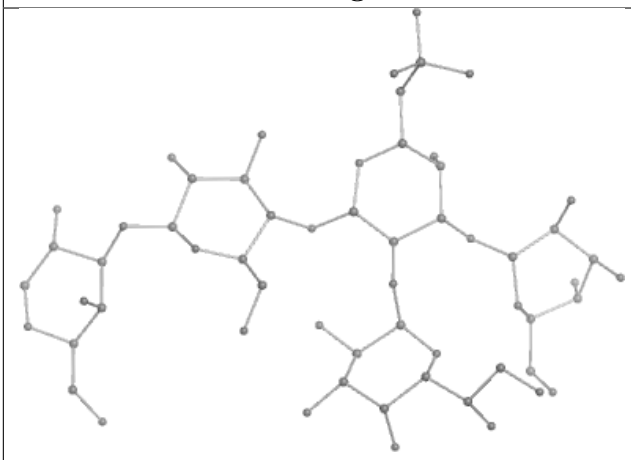


Bond angles



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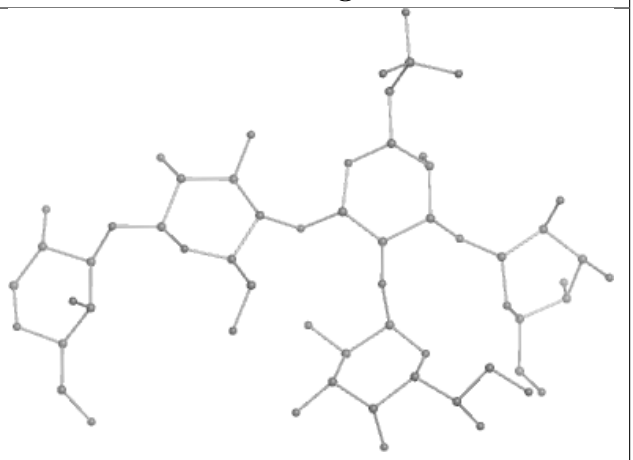
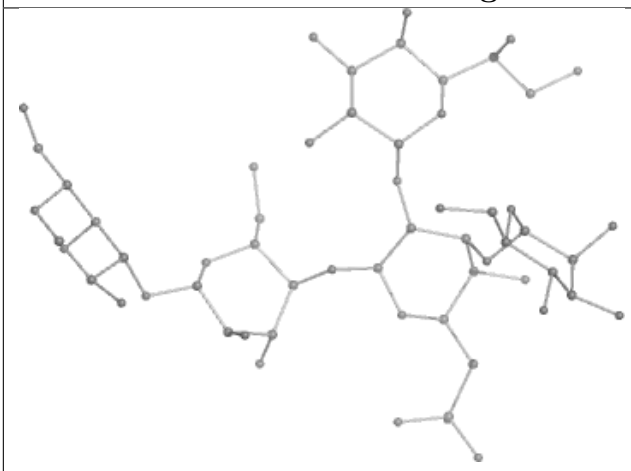


Rings

Oligosaccharide Chain mB



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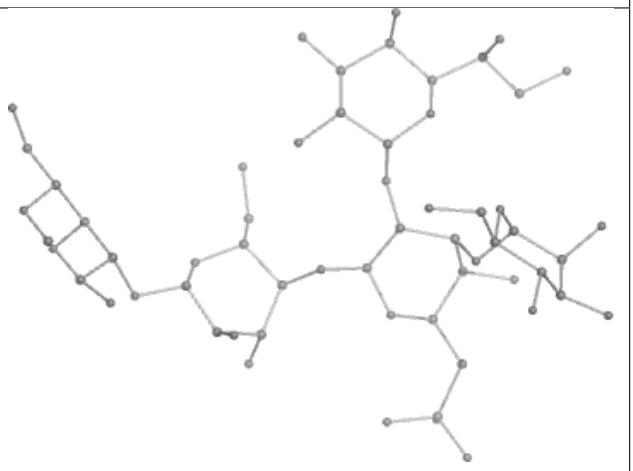
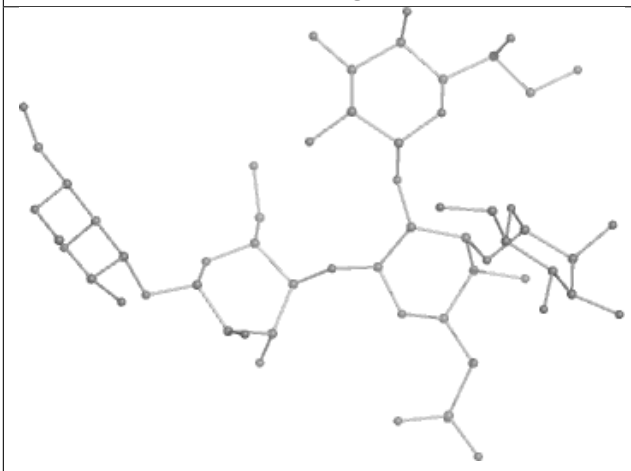


Bond angles



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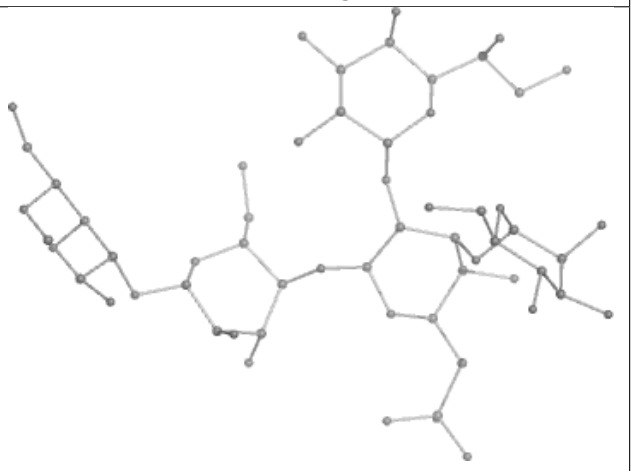
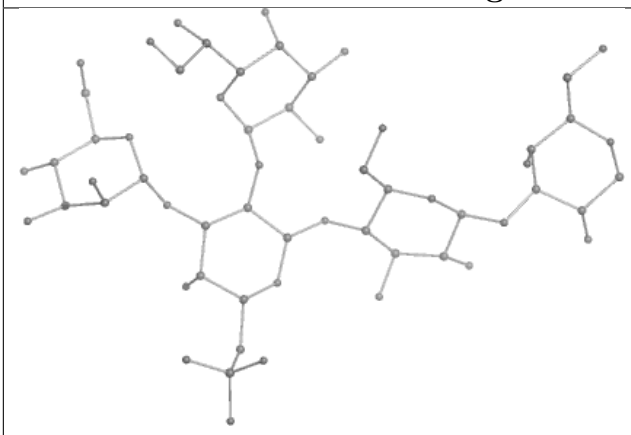


Rings

Oligosaccharide Chain oB



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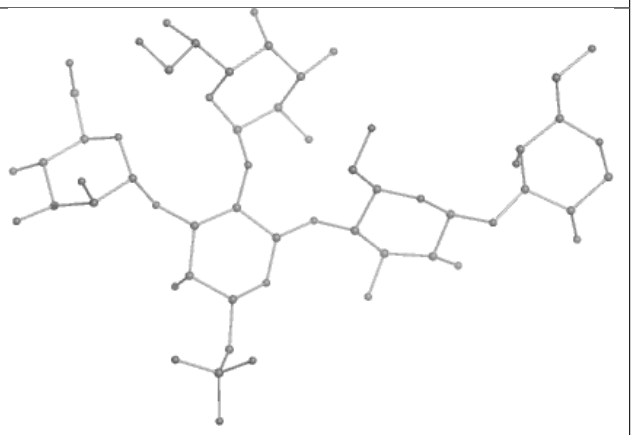
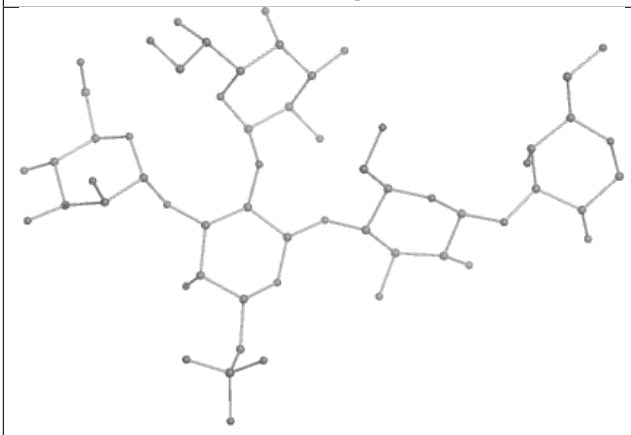
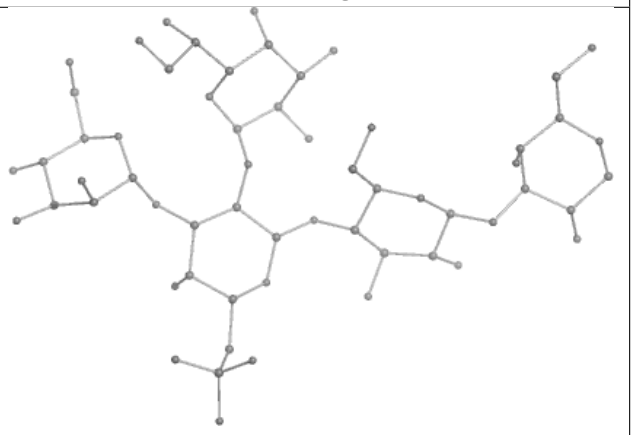


Bond angles

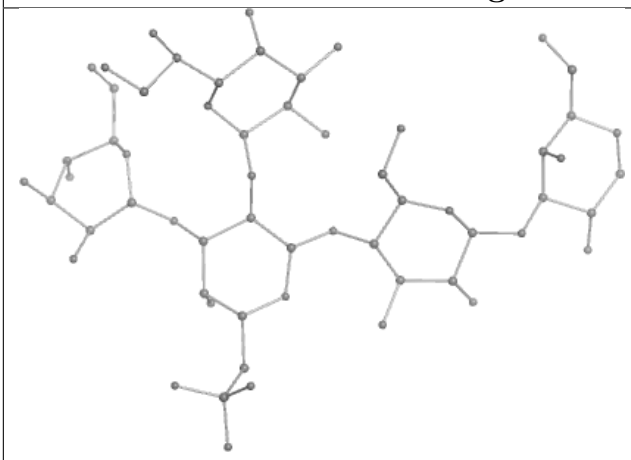


Torsions

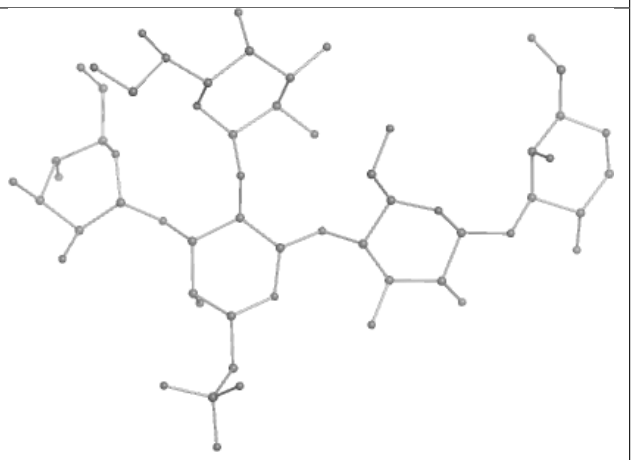


Rings

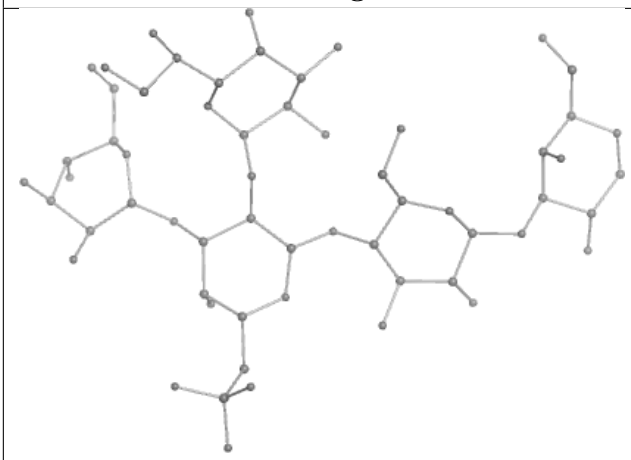
Oligosaccharide Chain sB



Bond lengths



Bond angles



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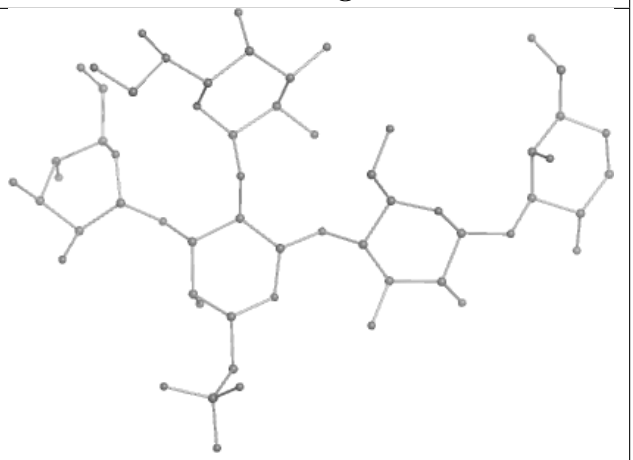
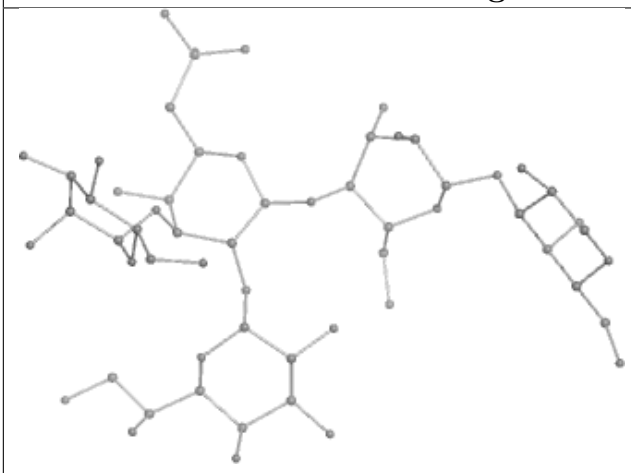


Rings

Oligosaccharide Chain tB



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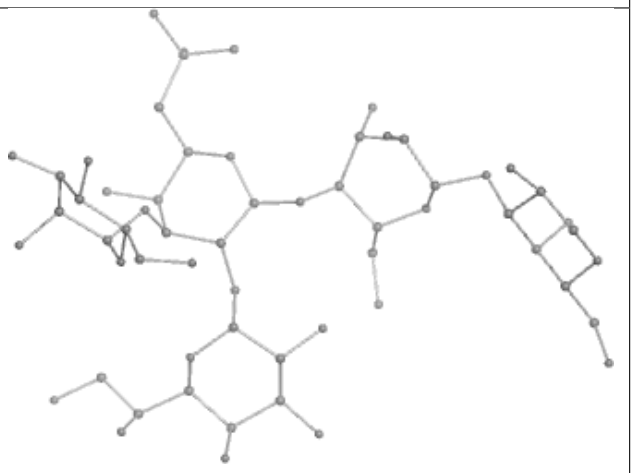
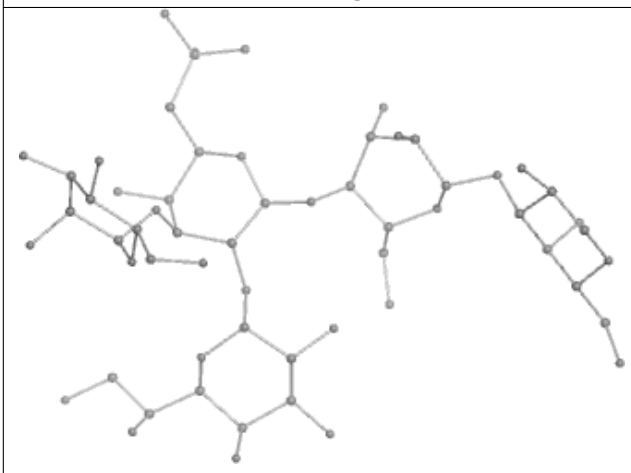


Bond angles



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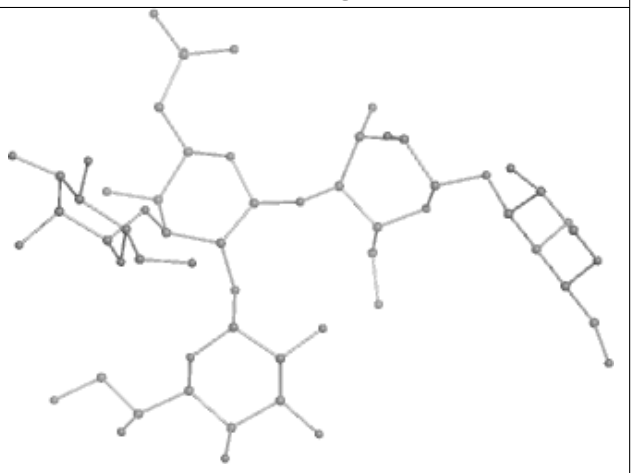
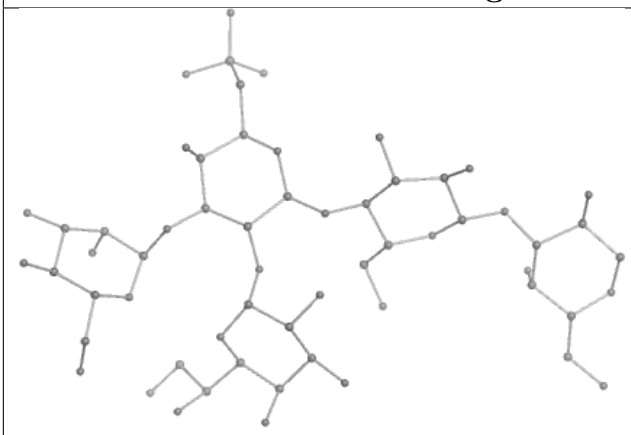


Rings

Oligosaccharide Chain vB



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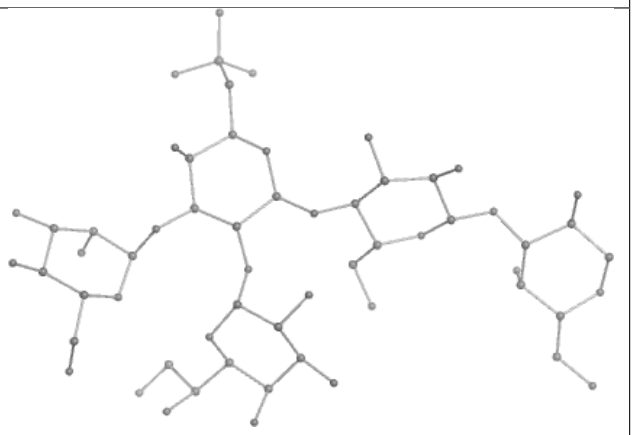
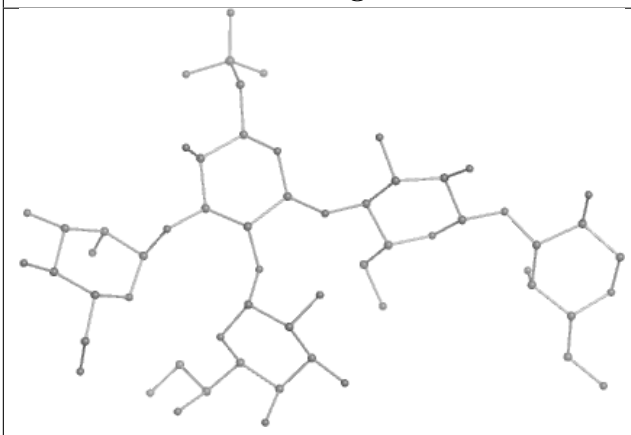


Bond angles



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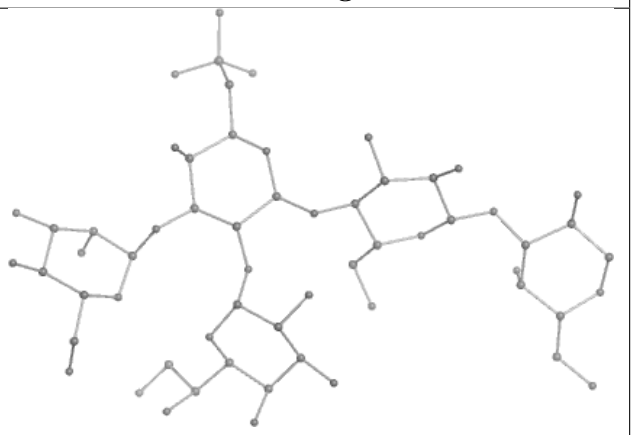
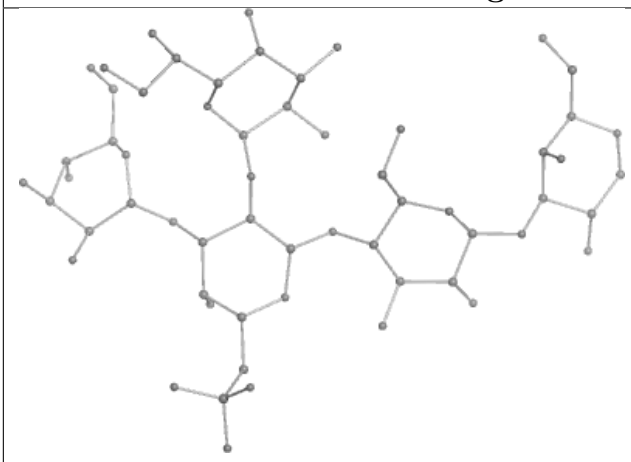


Rings

Oligosaccharide Chain zB



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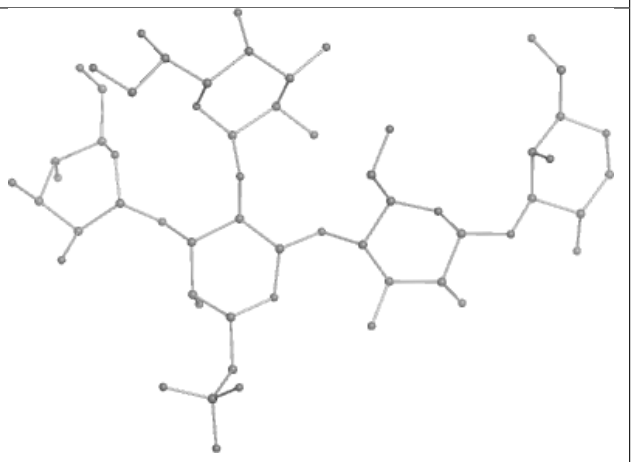
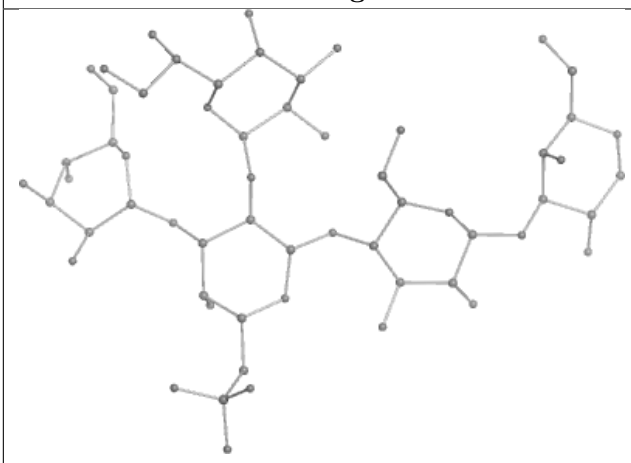


Bond angles



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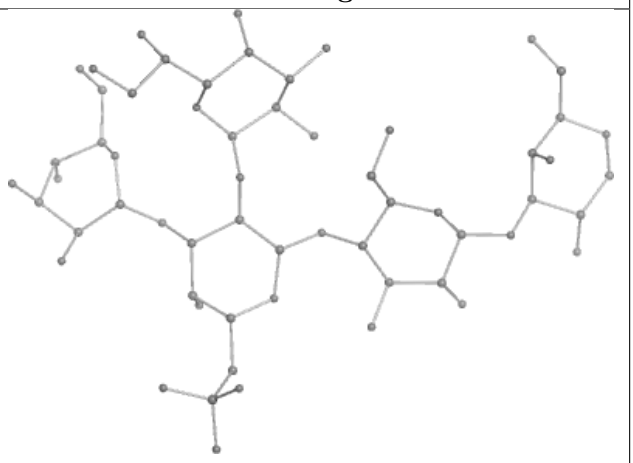
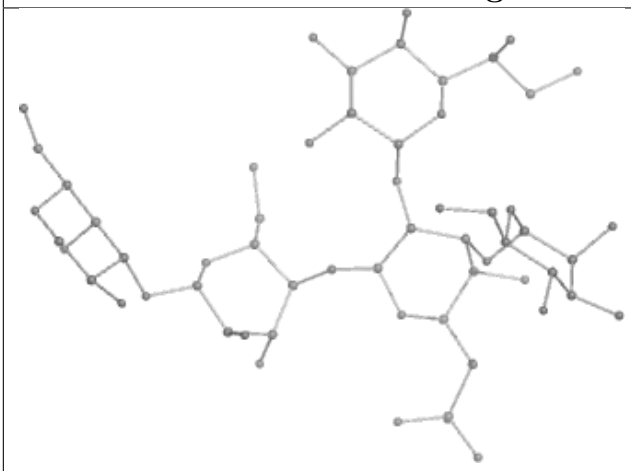


Rings

Oligosaccharide Chain 0B



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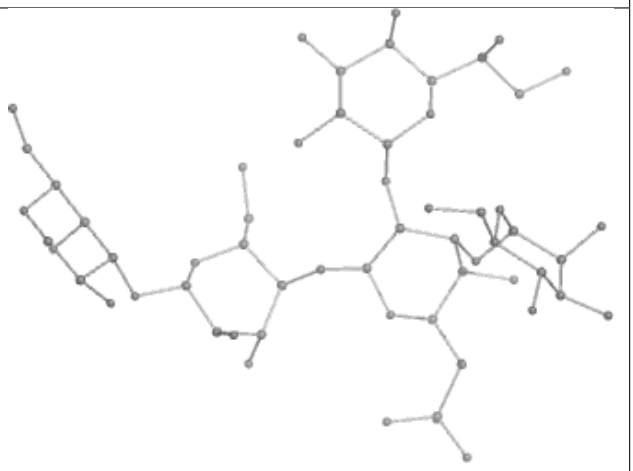
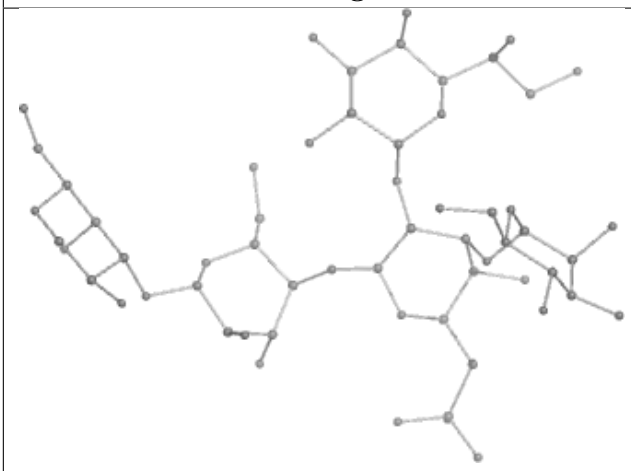


Bond angles



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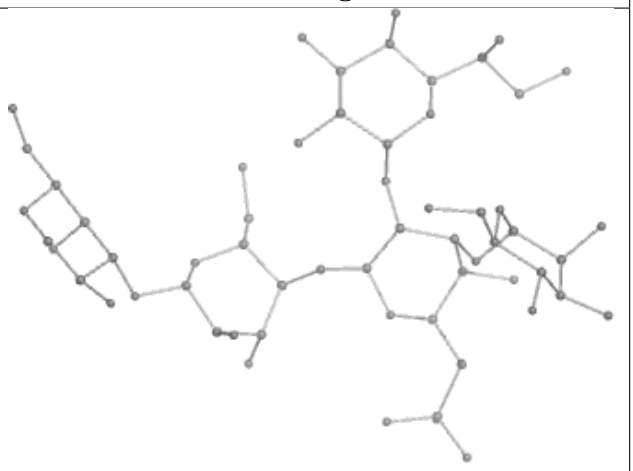
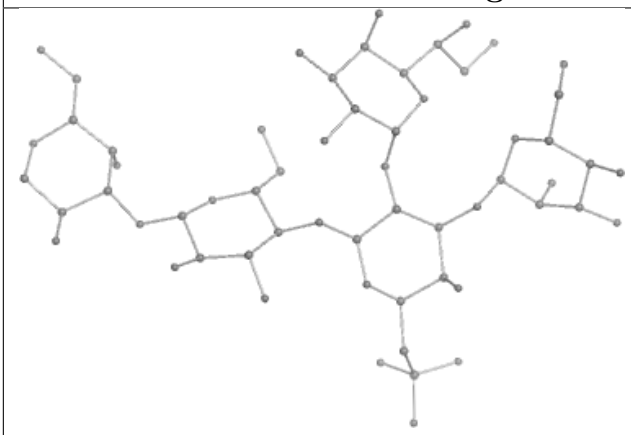


Rings

Oligosaccharide Chain 2B



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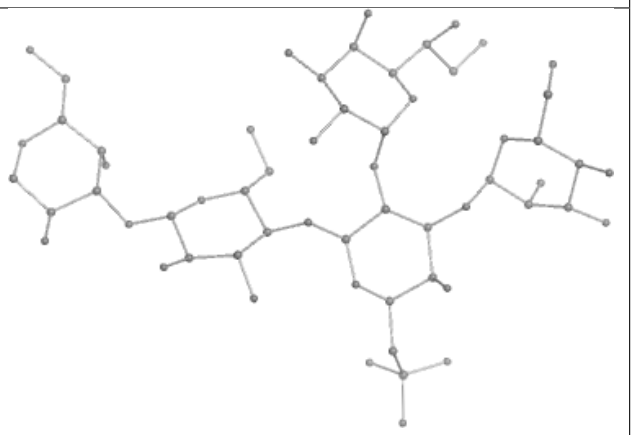
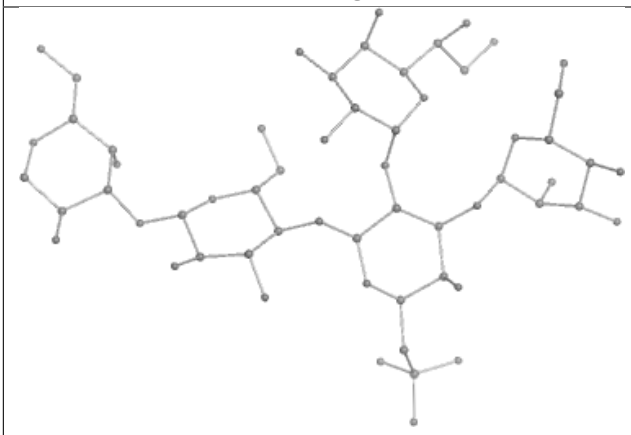


Bond angles



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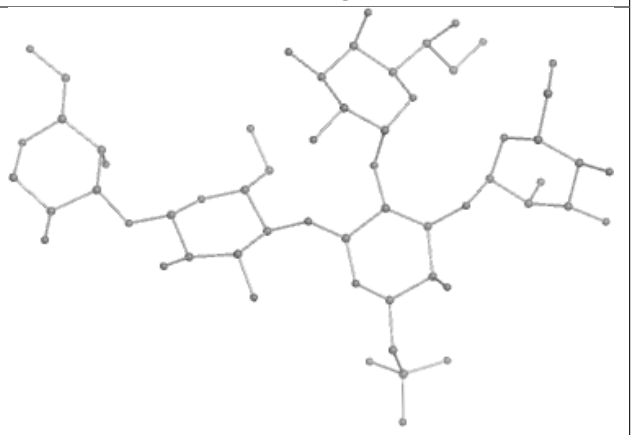
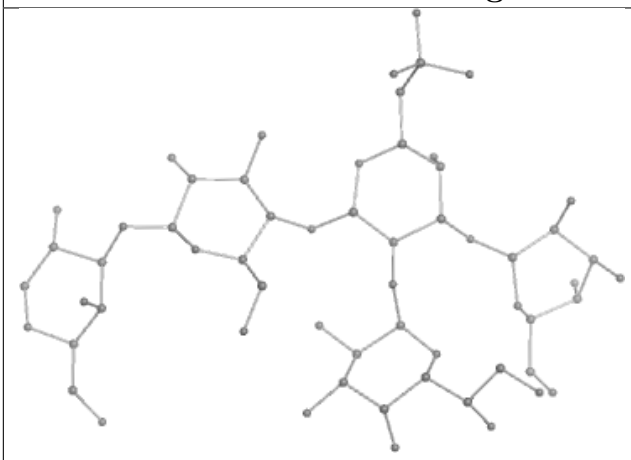


Rings

Oligosaccharide Chain 6B



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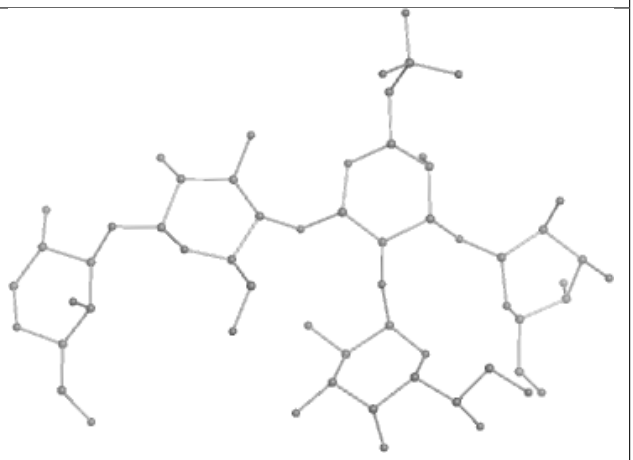

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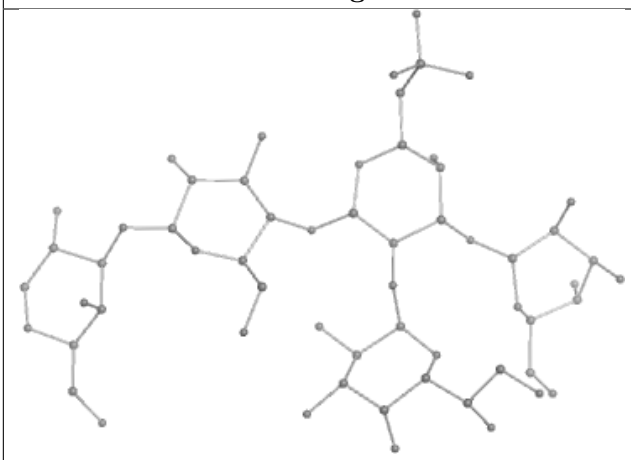

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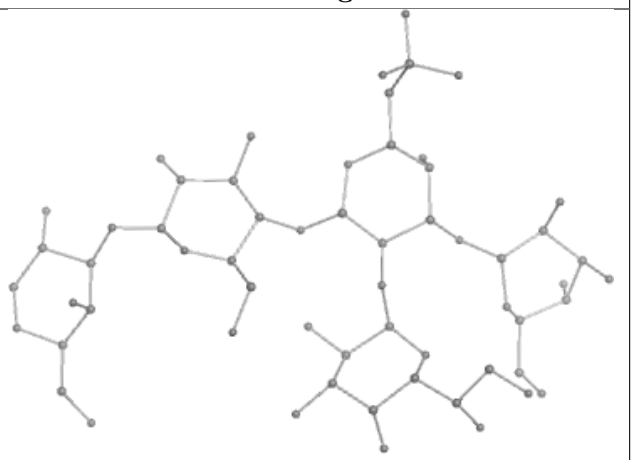
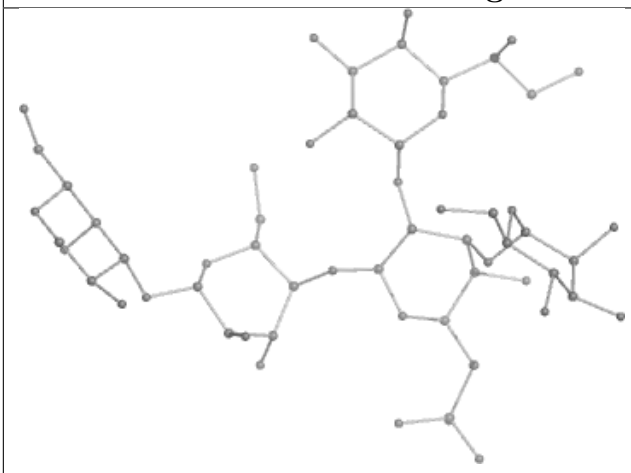


Rings

Oligosaccharide Chain 7B



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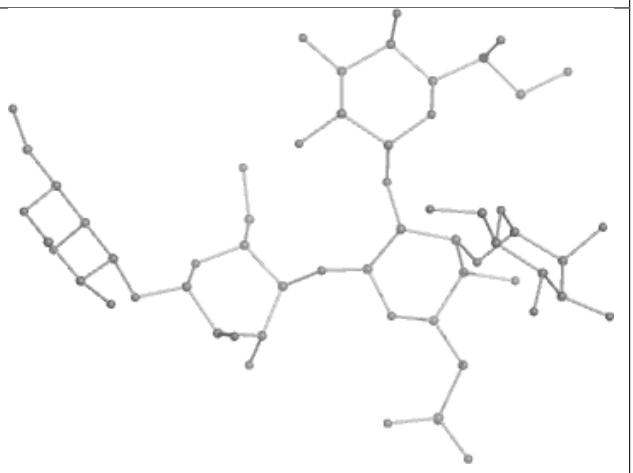
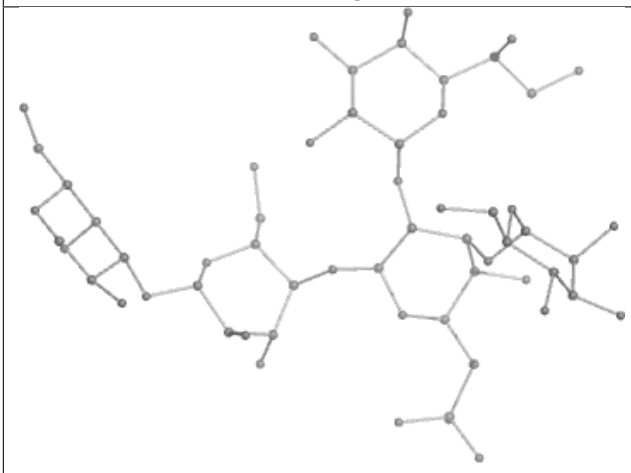


Bond angles



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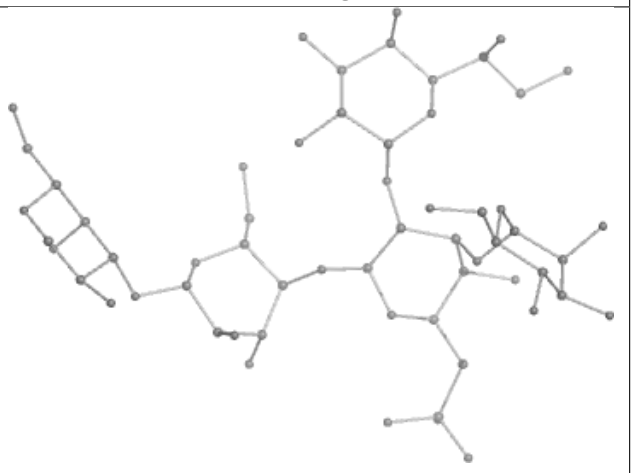
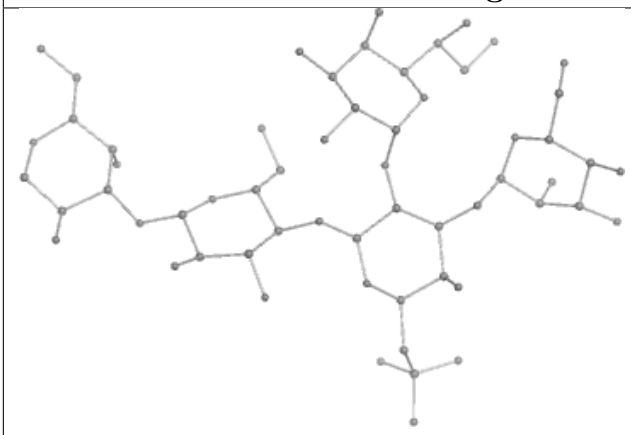
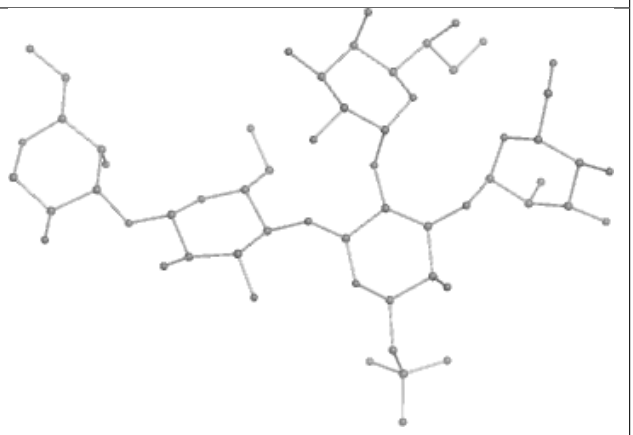


Rings

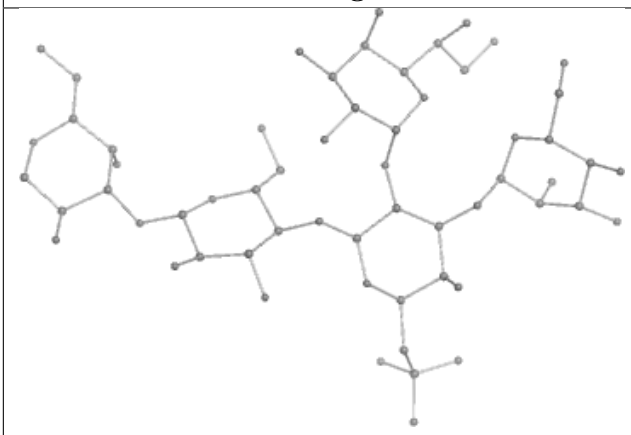
Oligosaccharide Chain 9B



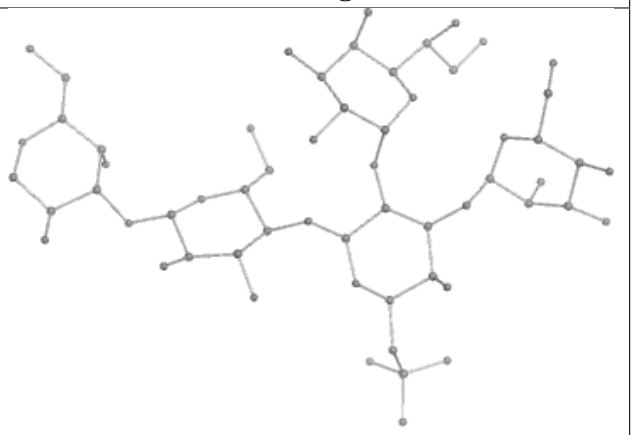
Bond lengths



Bond angles

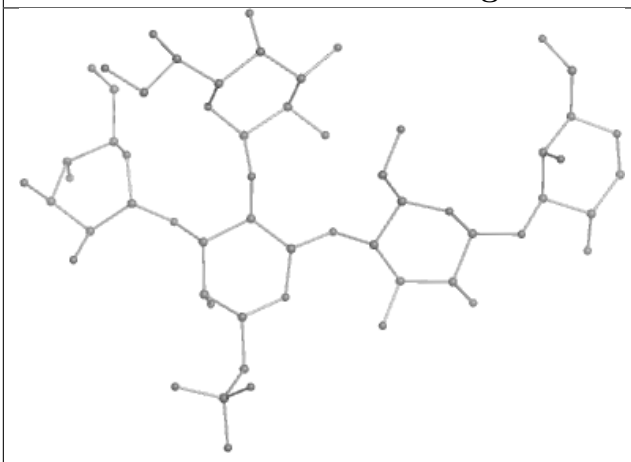


Torsions

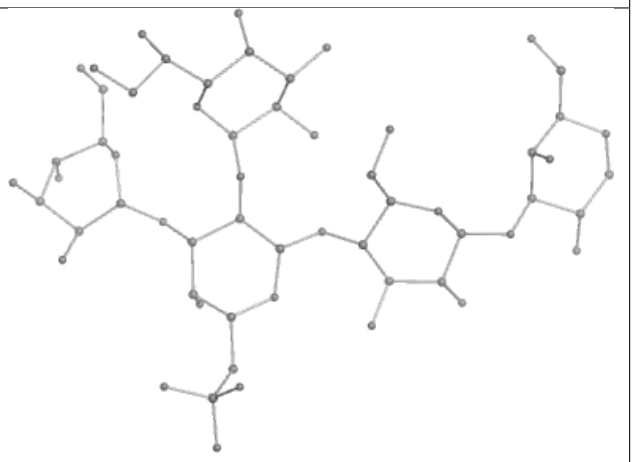


Rings

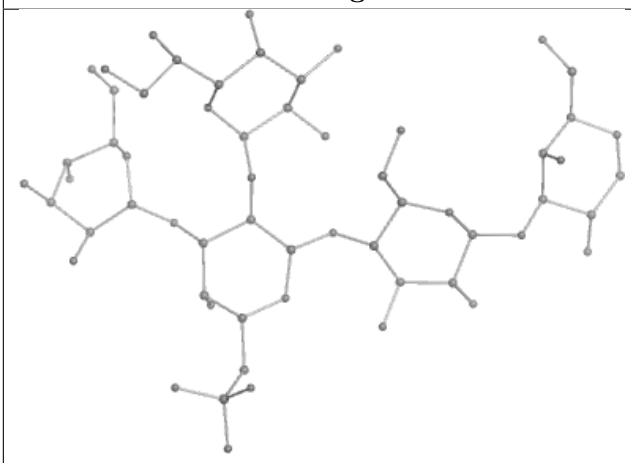
Oligosaccharide Chain DC



Bond lengths



Bond angles



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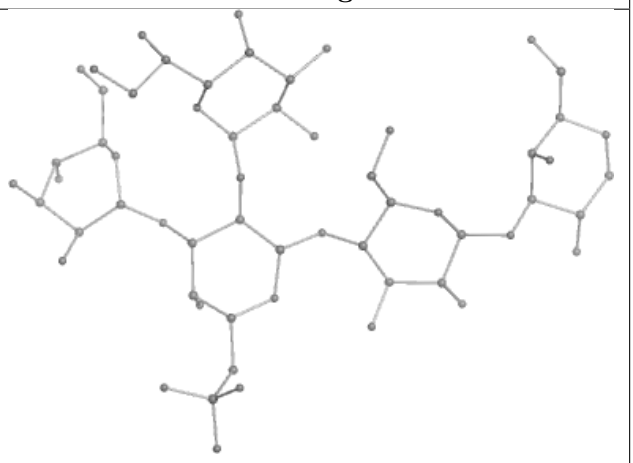
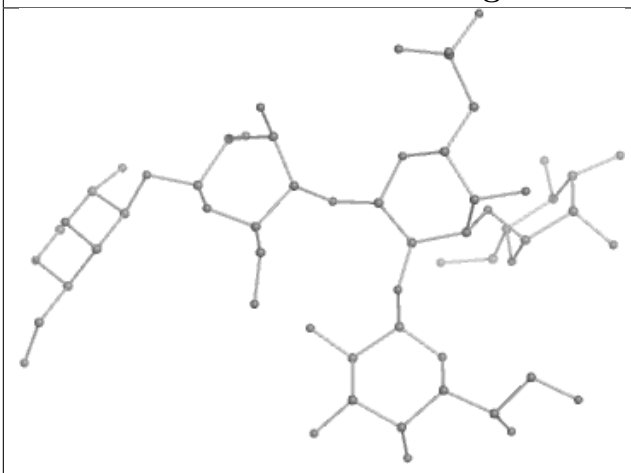
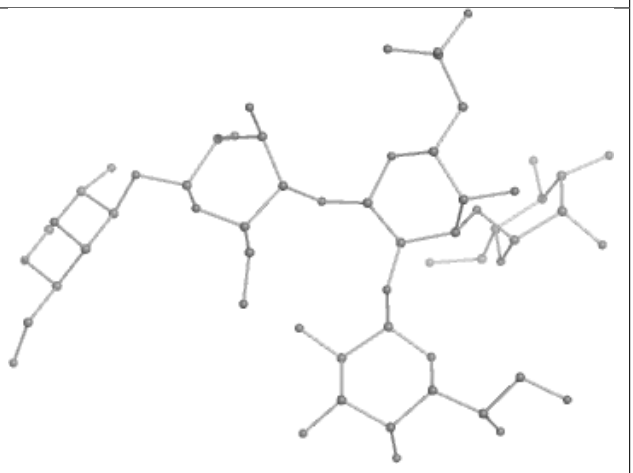


Rings

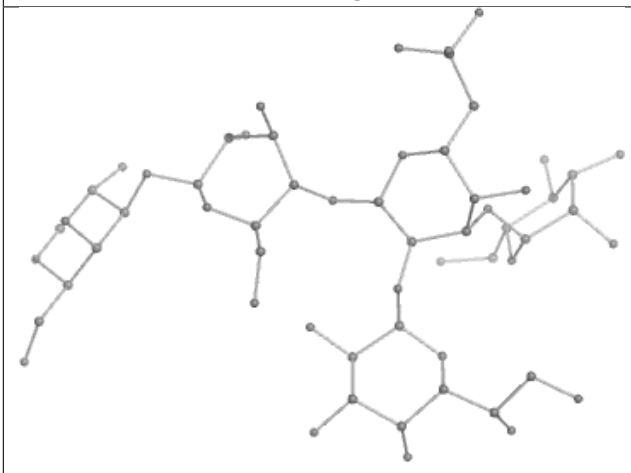
Oligosaccharide Chain EC



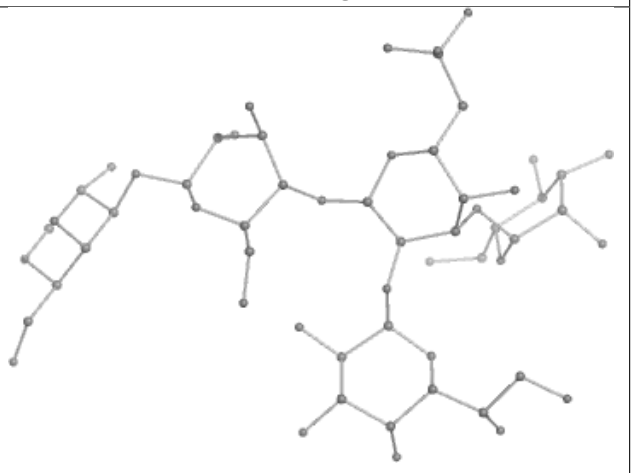
Bond lengths



Bond angles

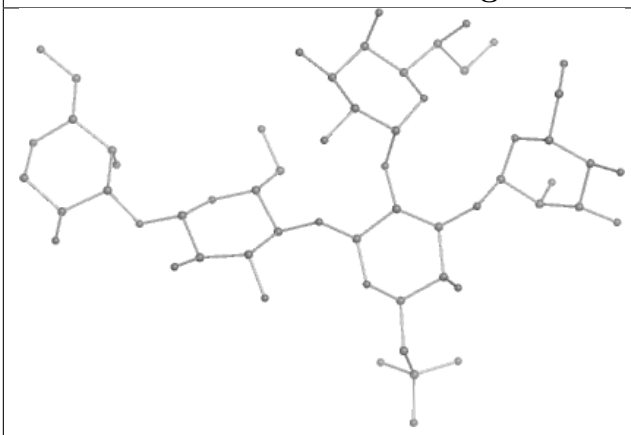


Torsions



Rings

Oligosaccharide Chain GC



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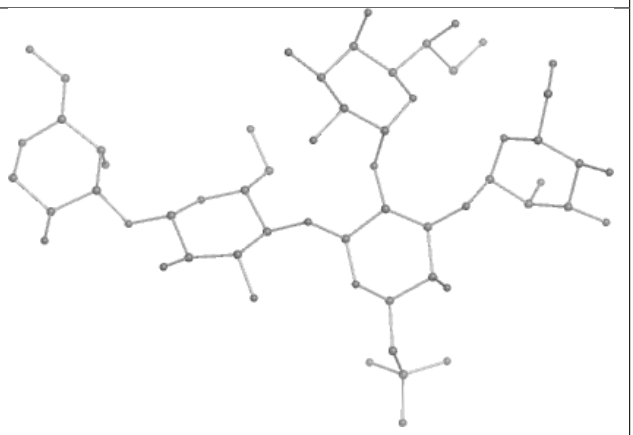

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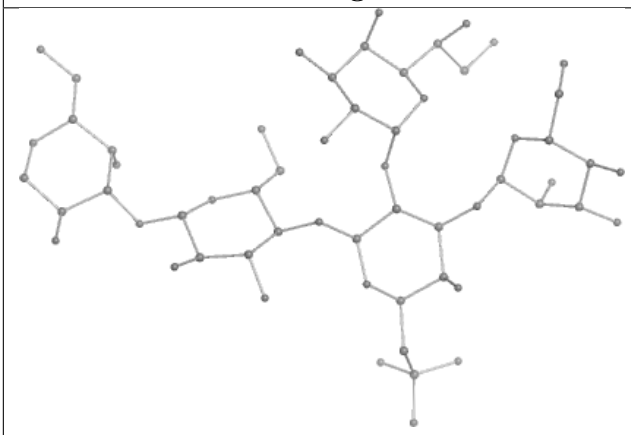

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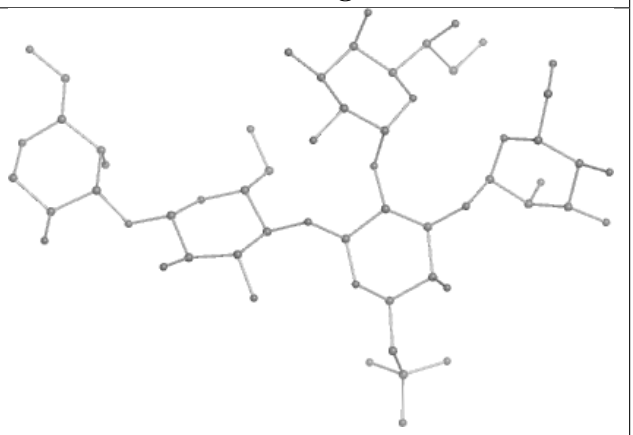
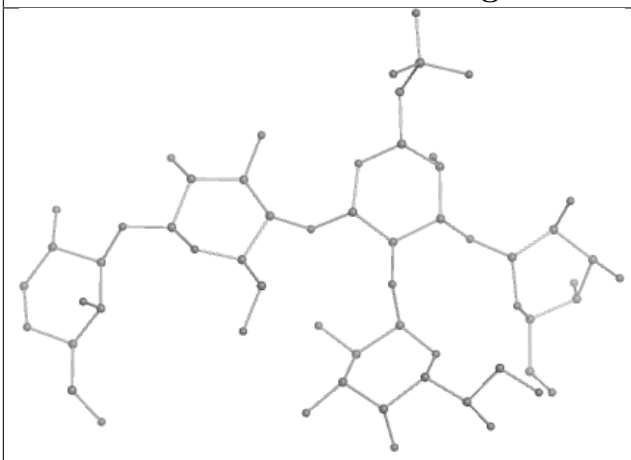


Rings

Oligosaccharide Chain KC



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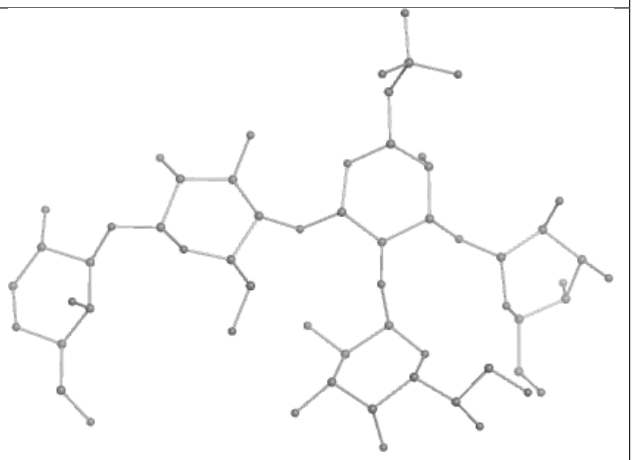
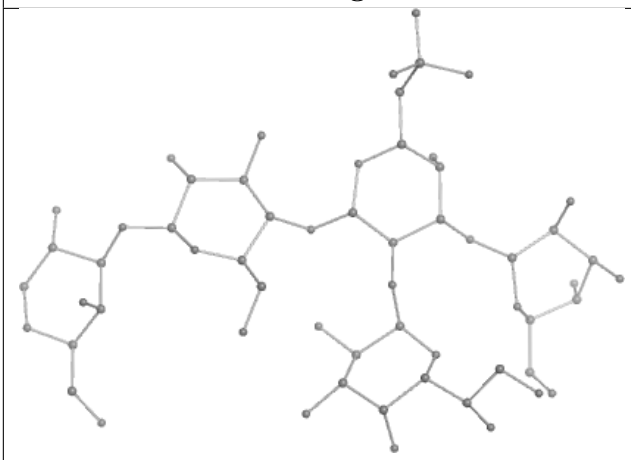


Bond angles



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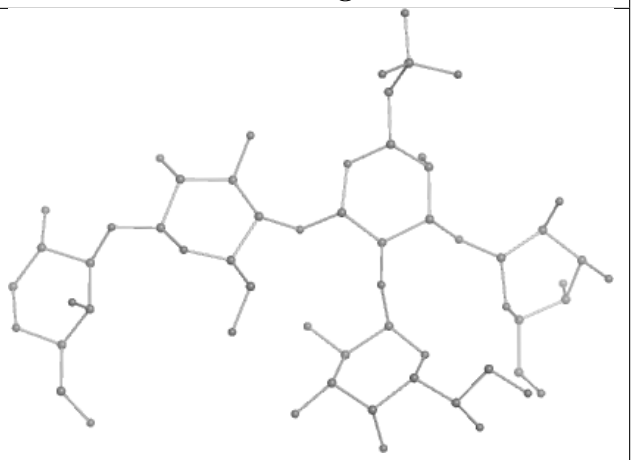
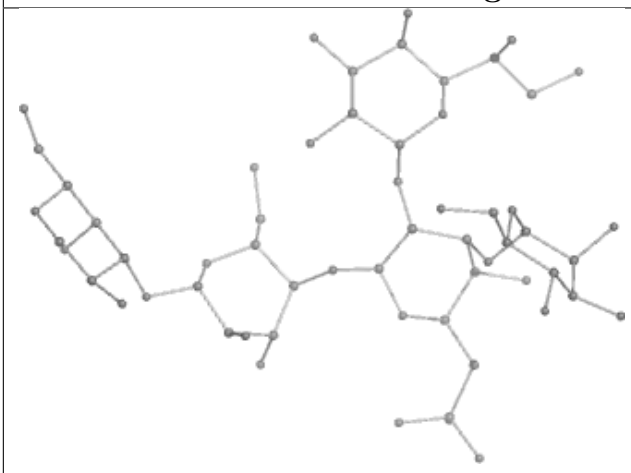


Rings

Oligosaccharide Chain LC



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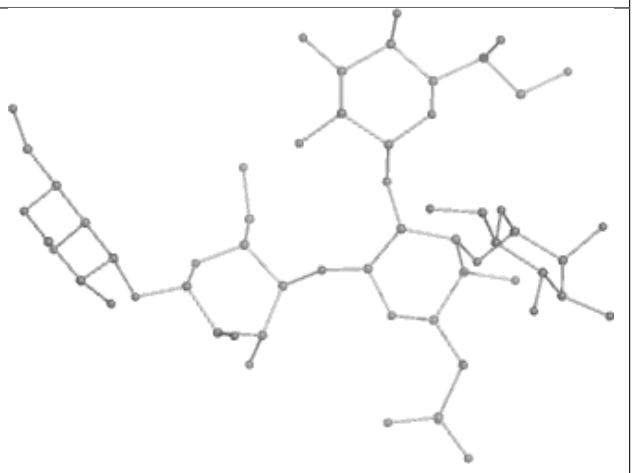
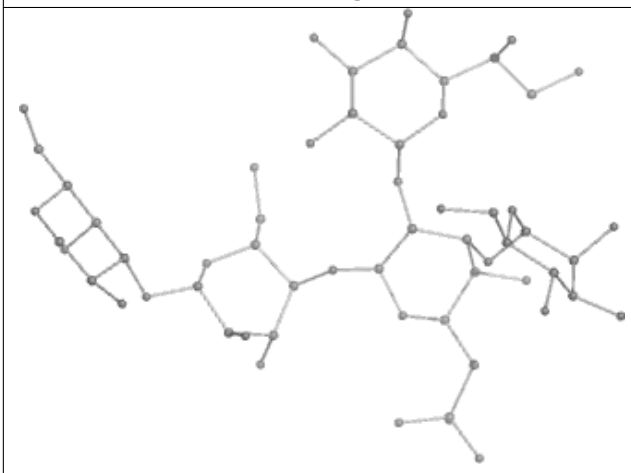


Bond angles



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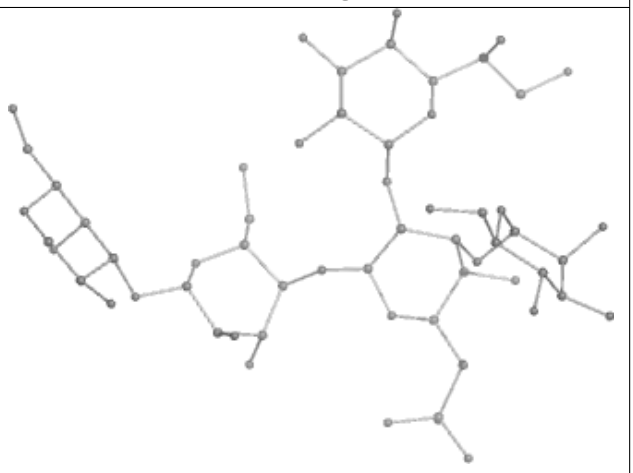
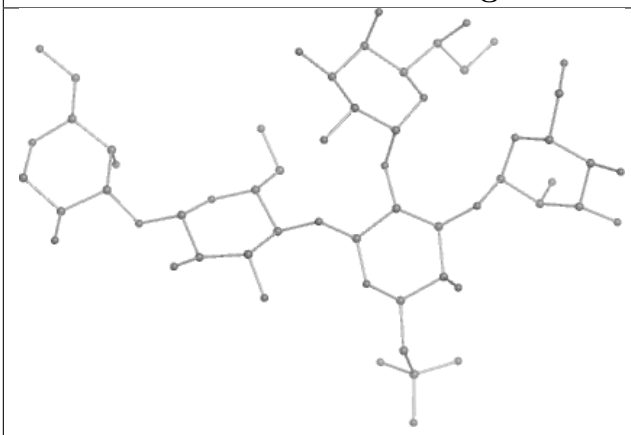


Rings

Oligosaccharide Chain NC



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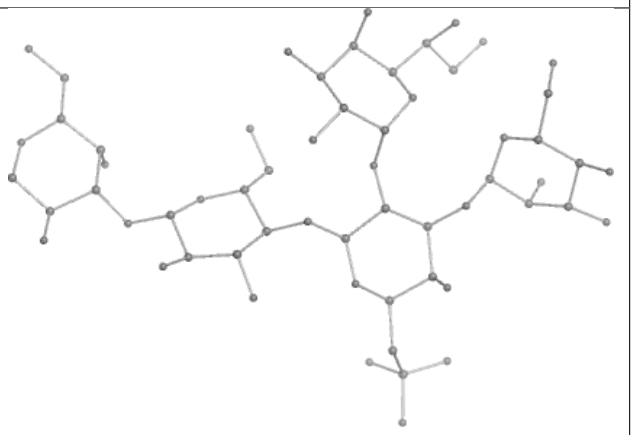

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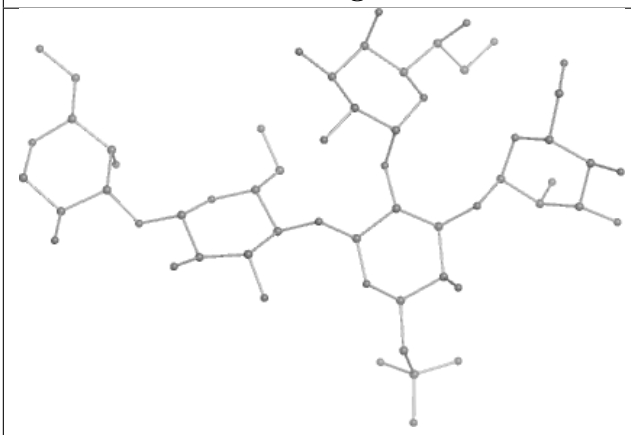

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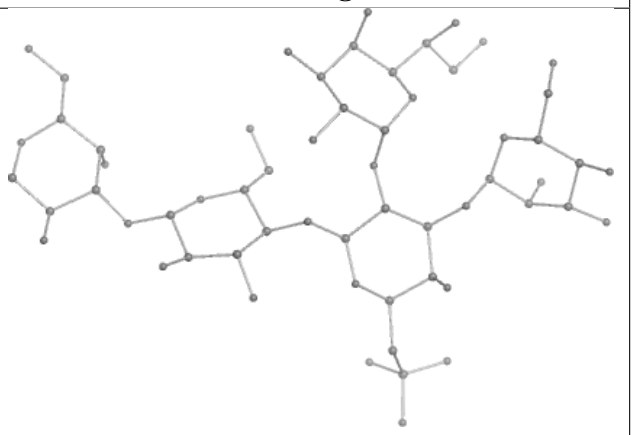
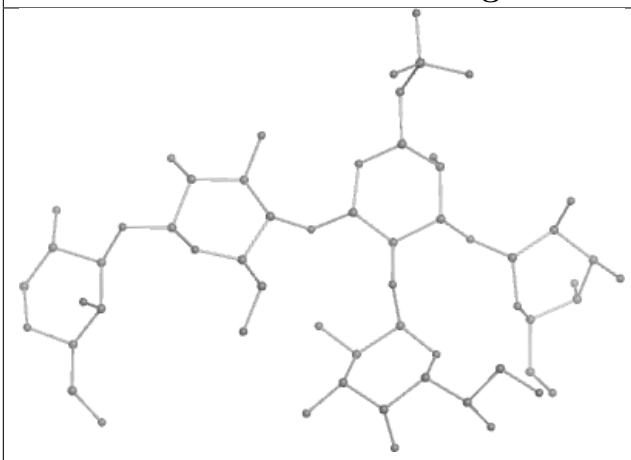


Rings

Oligosaccharide Chain RC



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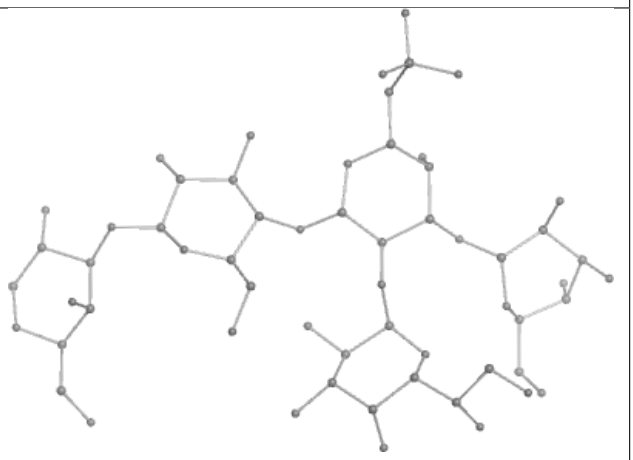

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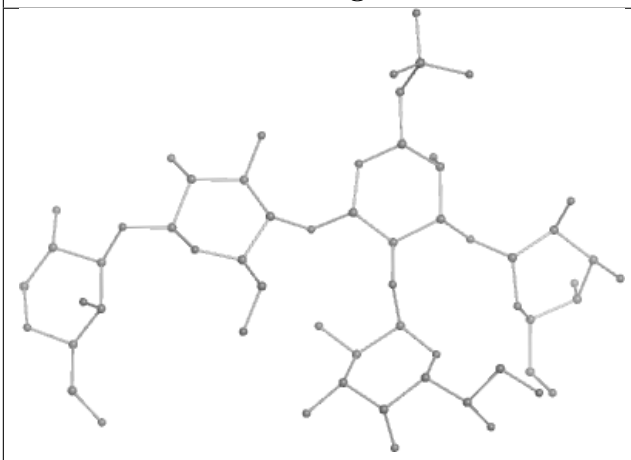

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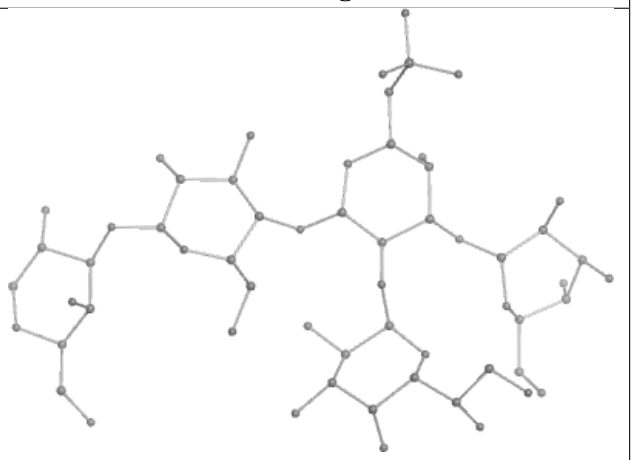
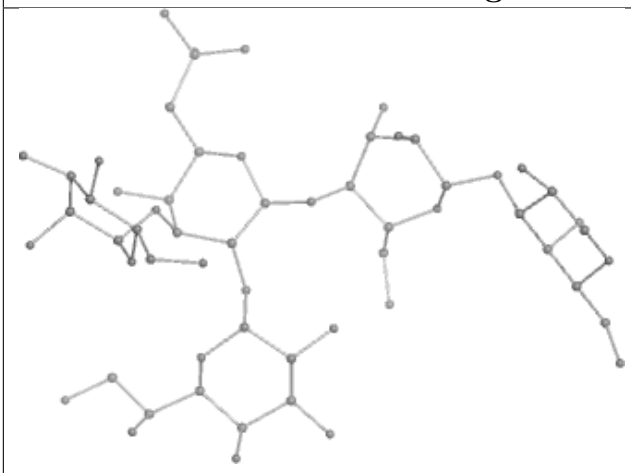


Rings

Oligosaccharide Chain SC



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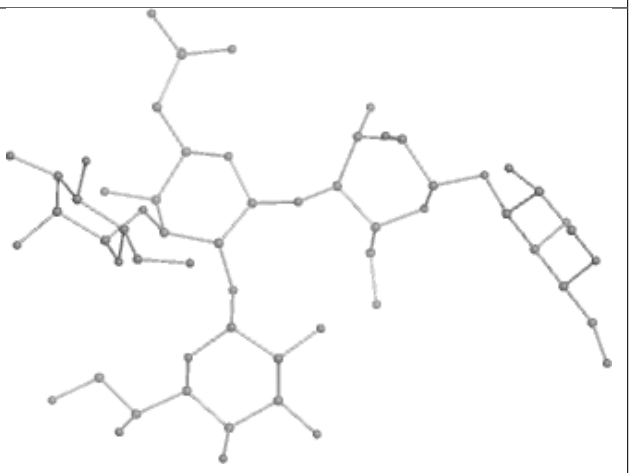
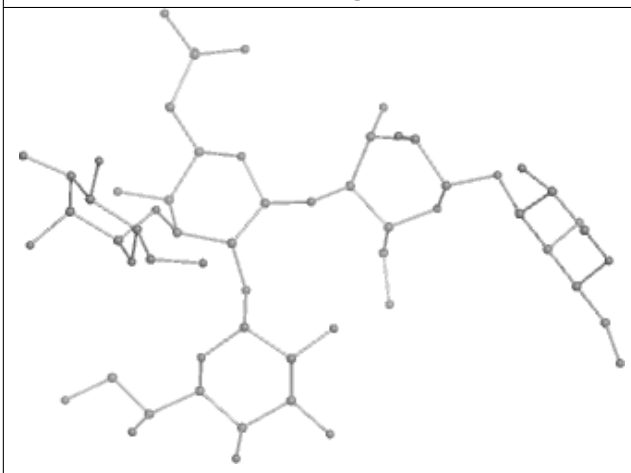


Bond angles



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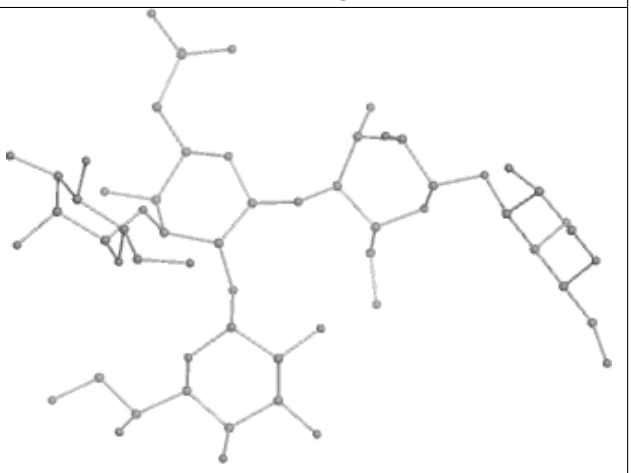
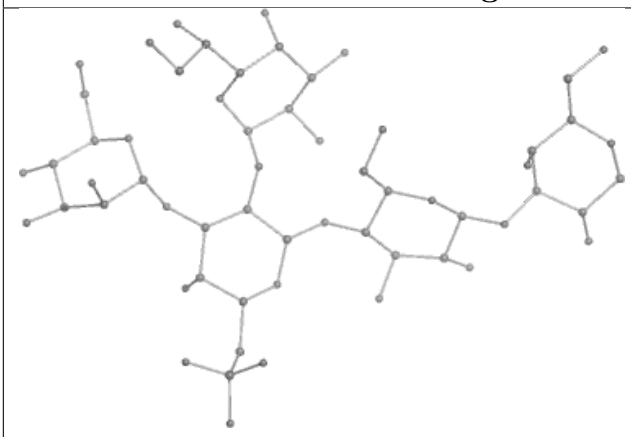


Rings

Oligosaccharide Chain UC



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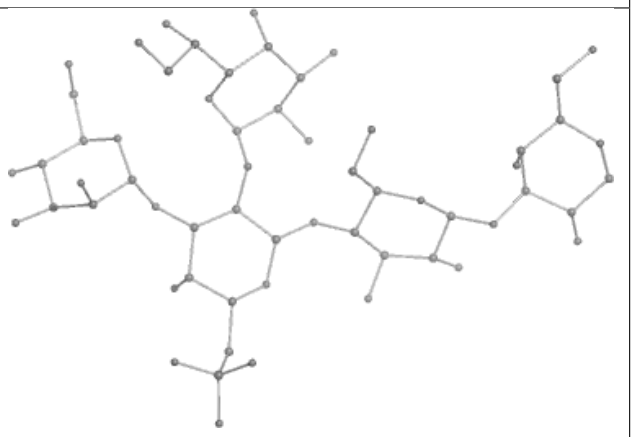
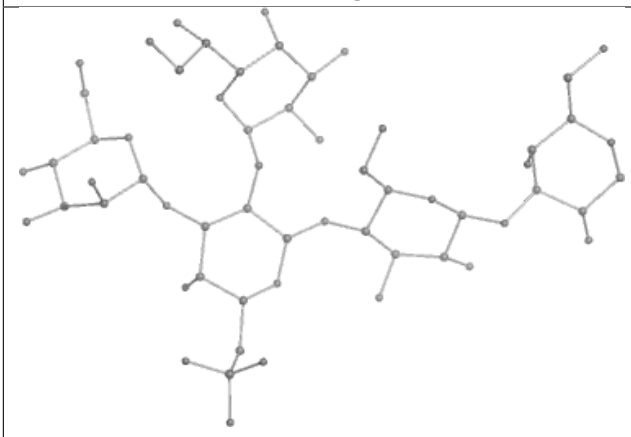


Bond angles



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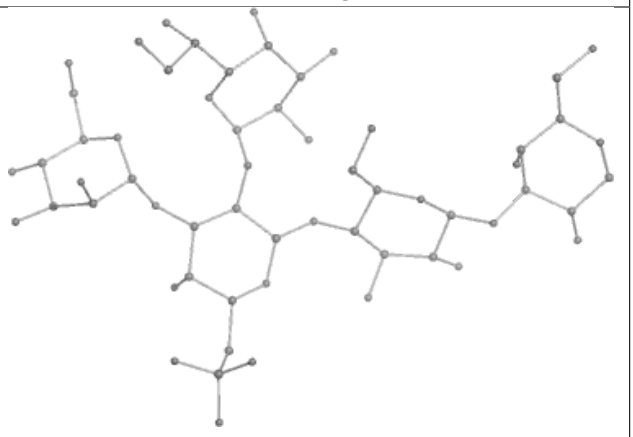
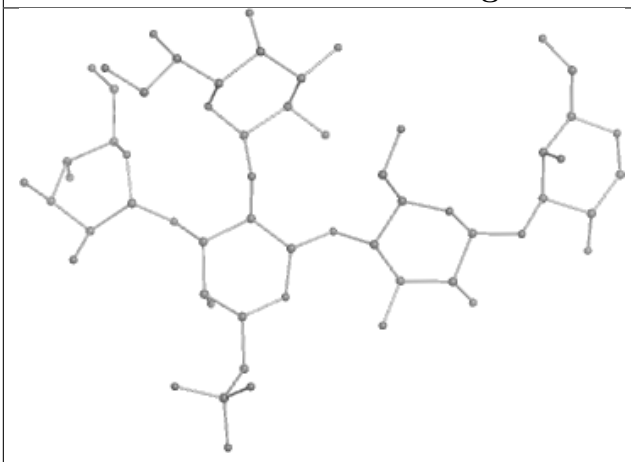


Rings

Oligosaccharide Chain YC



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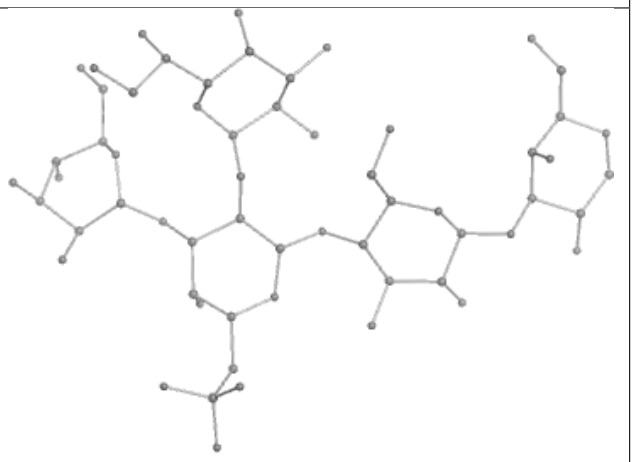
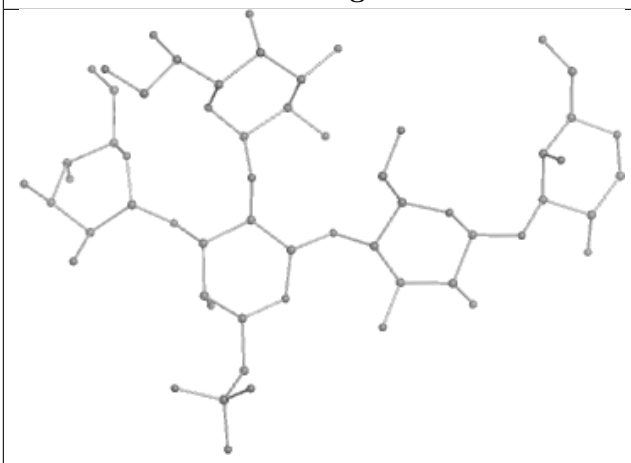


Bond angles



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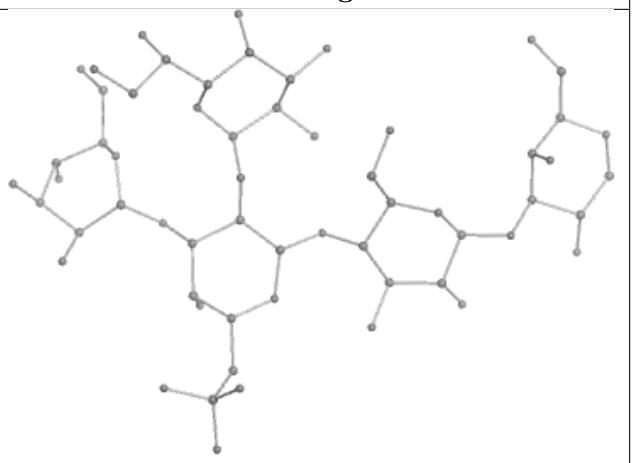
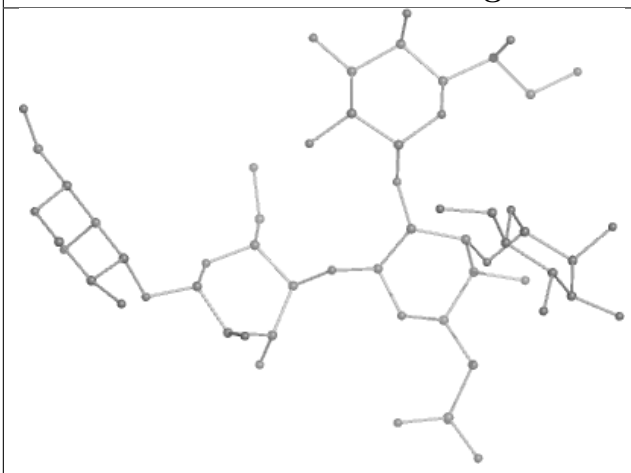


Rings

Oligosaccharide Chain ZC



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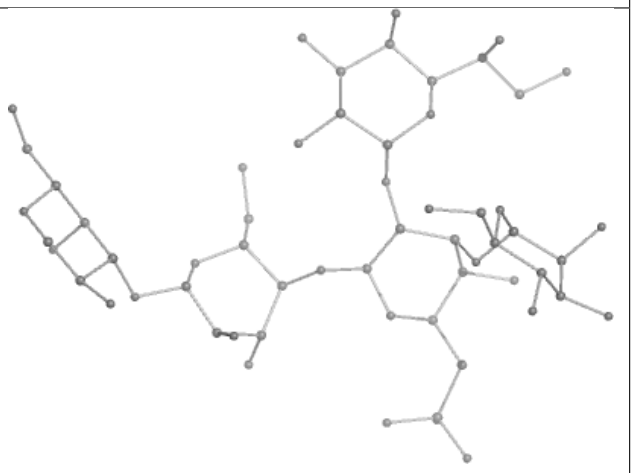

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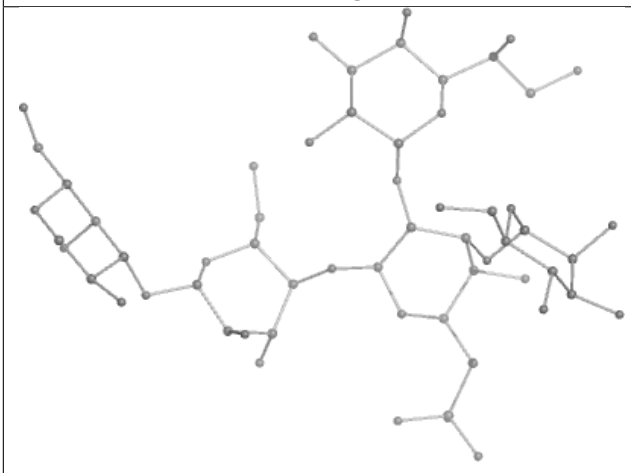

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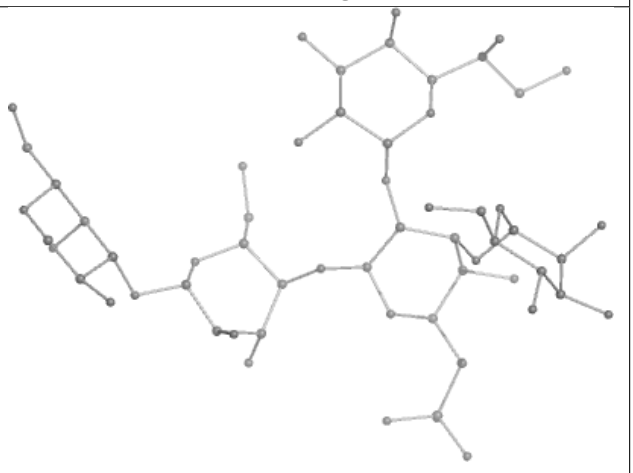
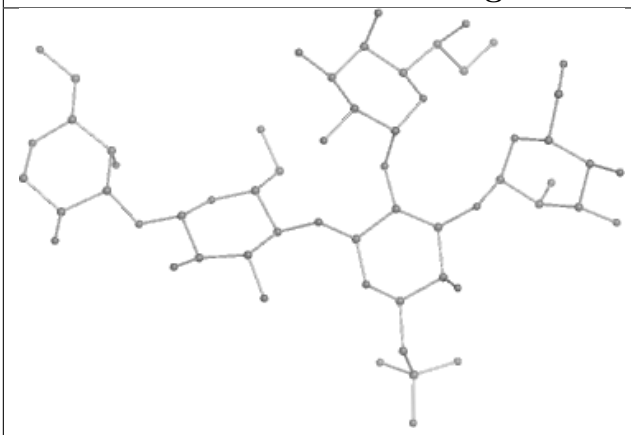


Rings

Oligosaccharide Chain bC



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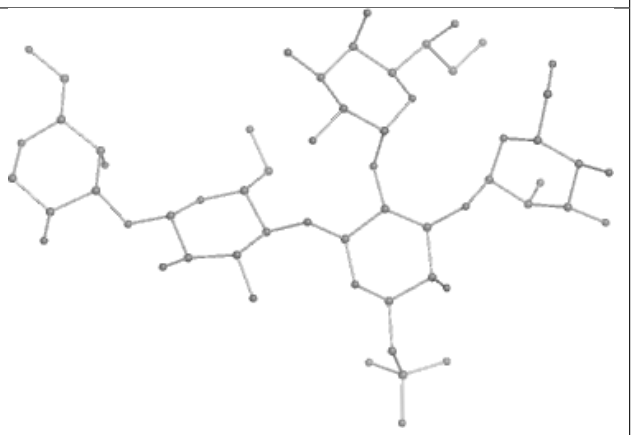
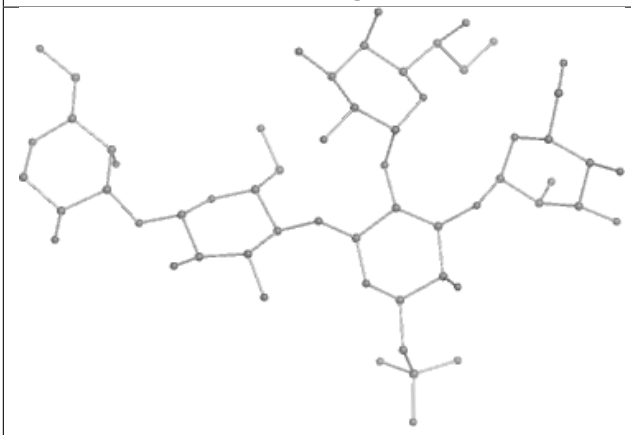


Bond angles



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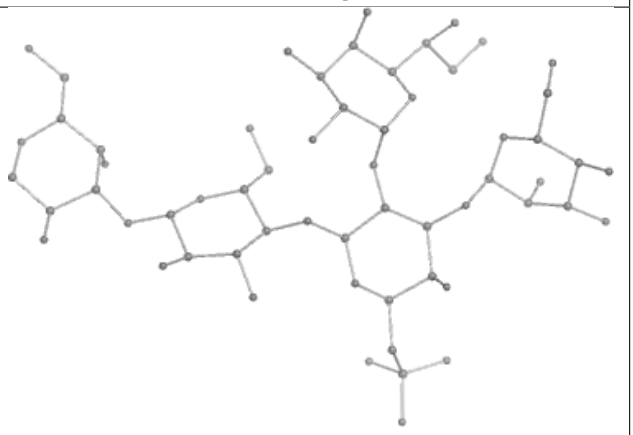
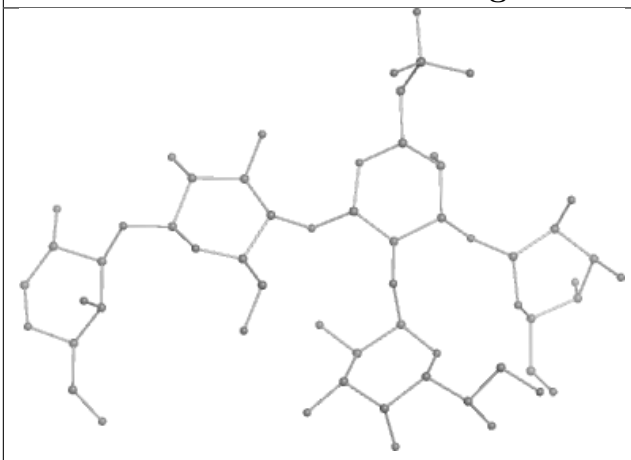


Rings

Oligosaccharide Chain fC



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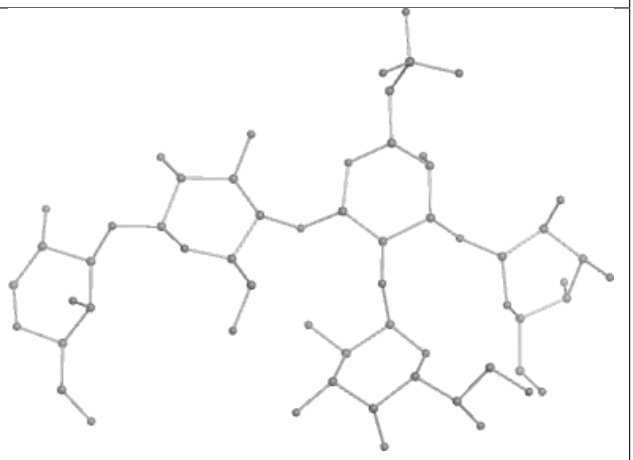
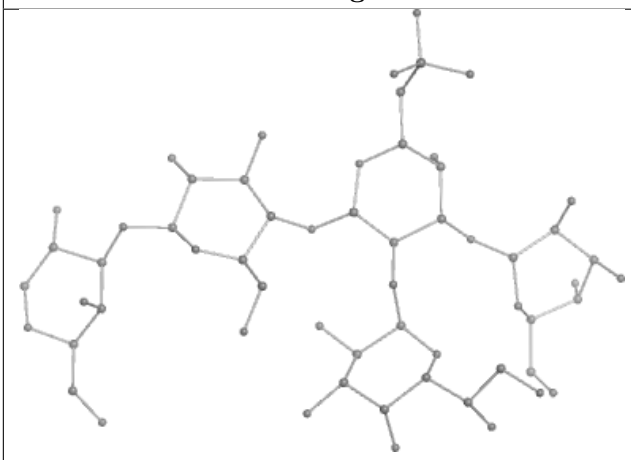
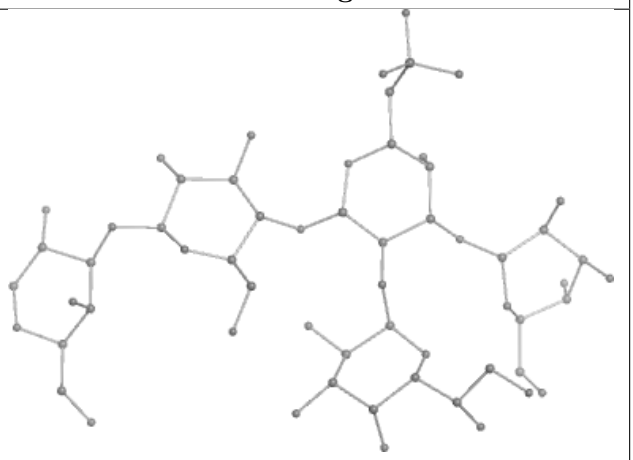


Bond angles

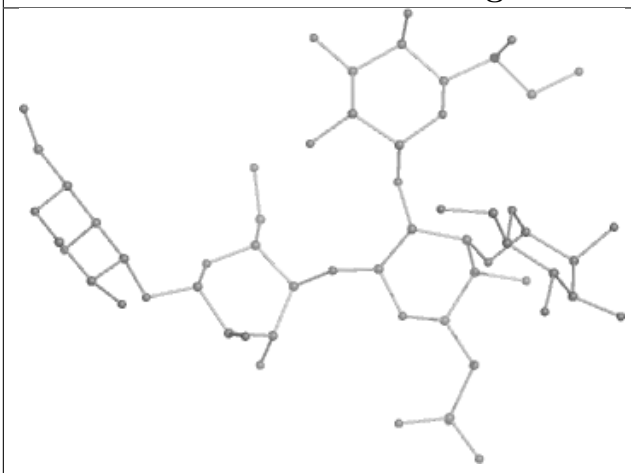


Torsions



Rings

Oligosaccharide Chain gC



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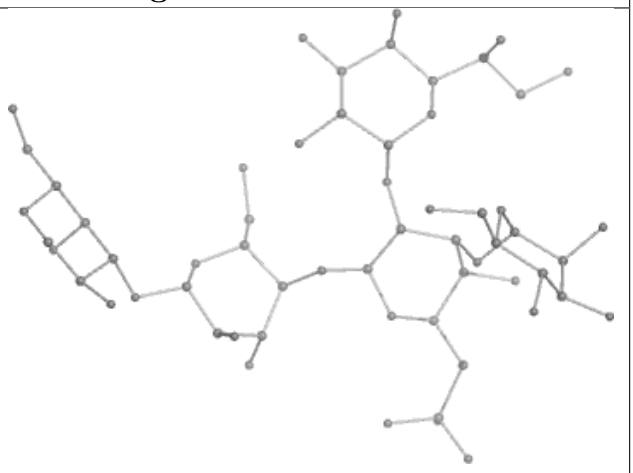
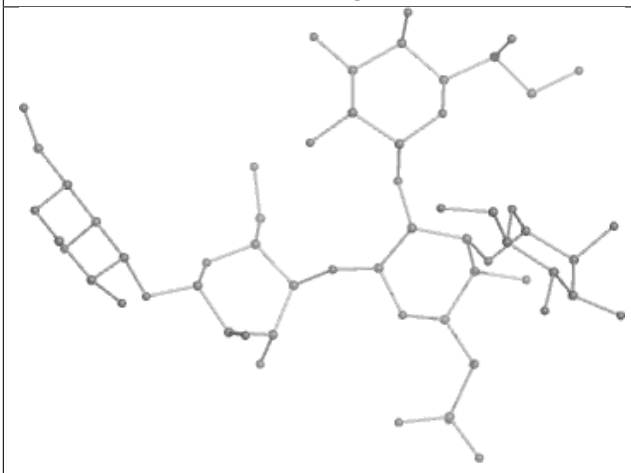
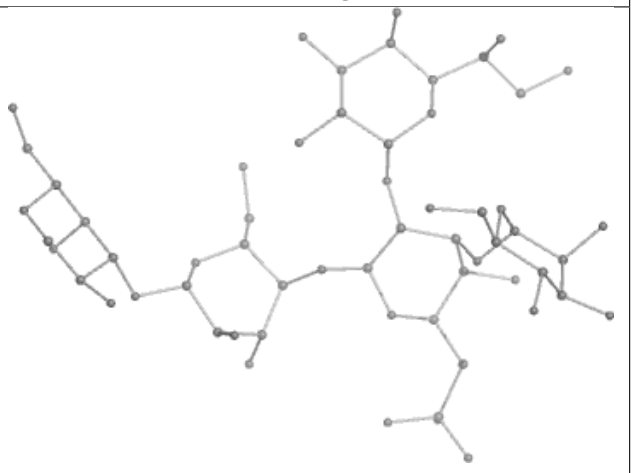


Bond angles

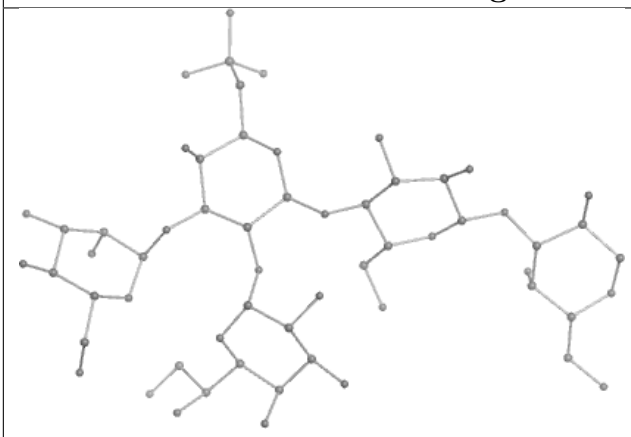


Torsions



Rings

Oligosaccharide Chain iC



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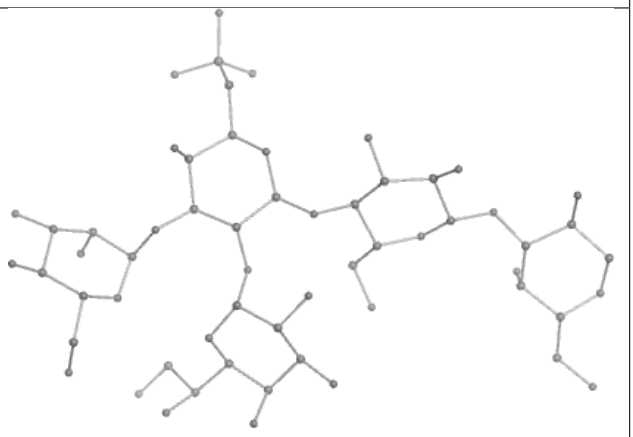
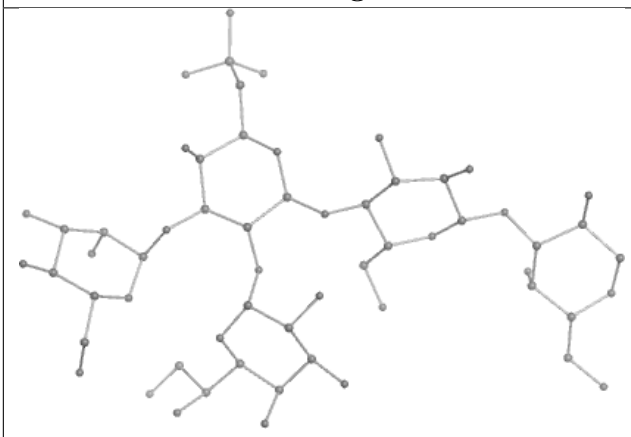


Bond angles



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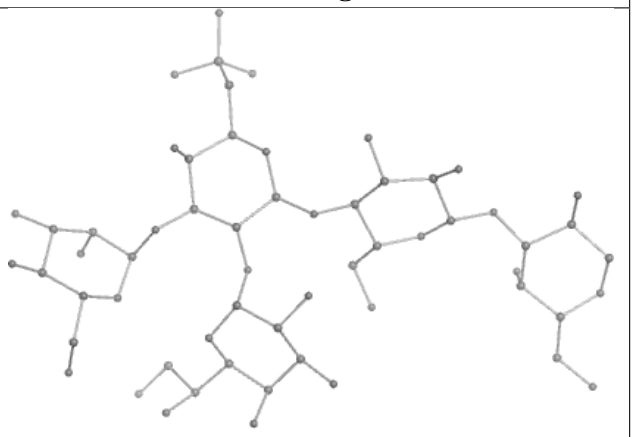
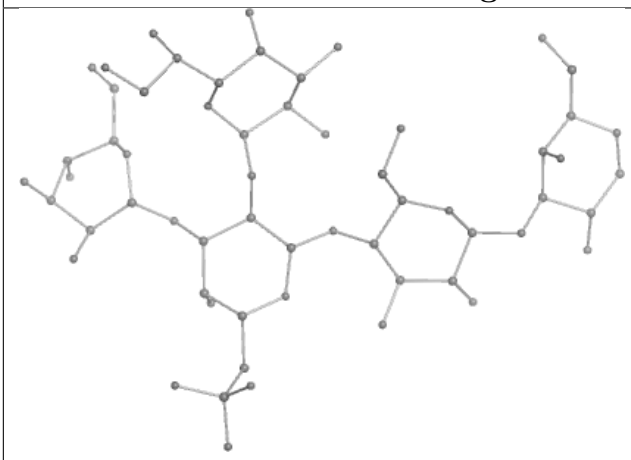
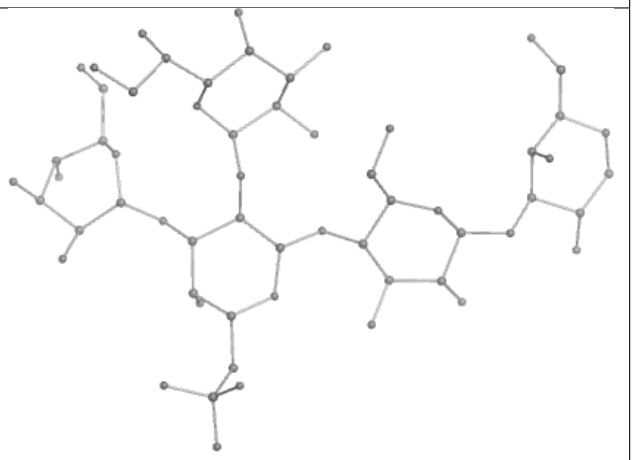


Rings

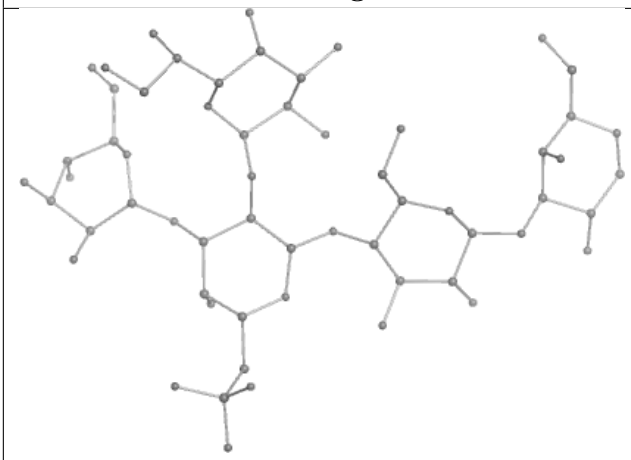
Oligosaccharide Chain mC



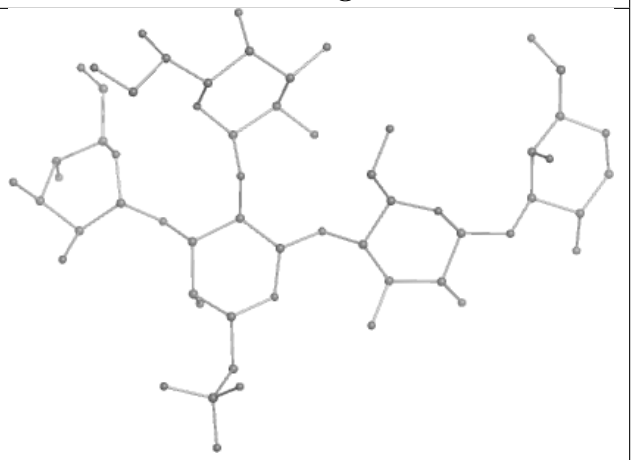
Bond lengths



Bond angles

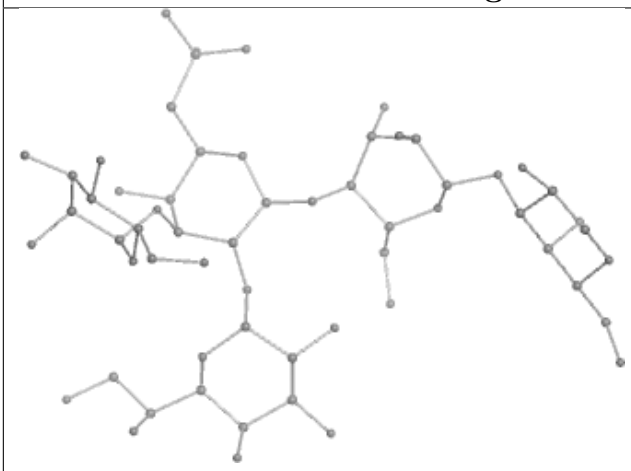


Torsions

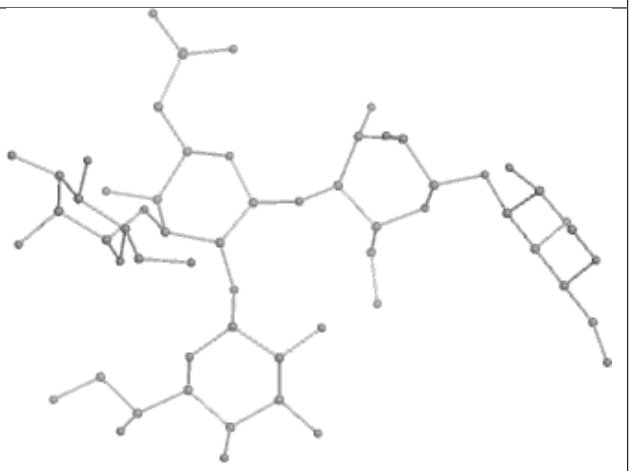


Rings

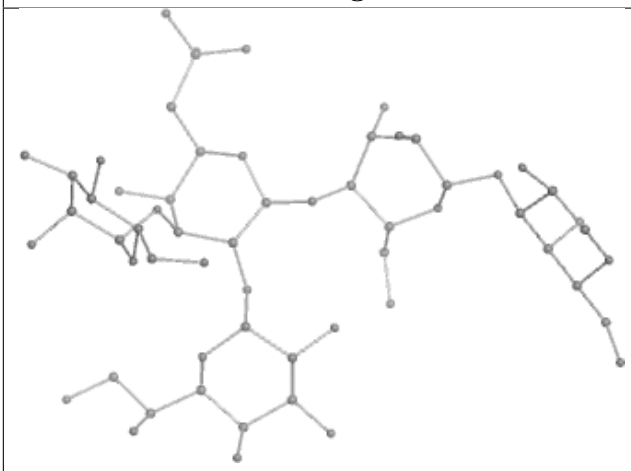
Oligosaccharide Chain nC



Bond lengths



Bond angles



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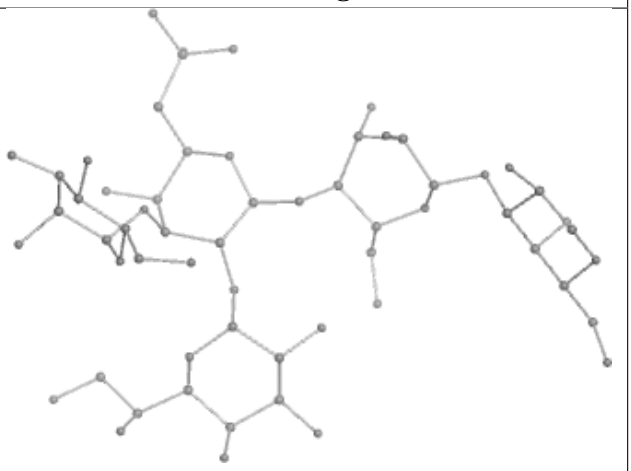
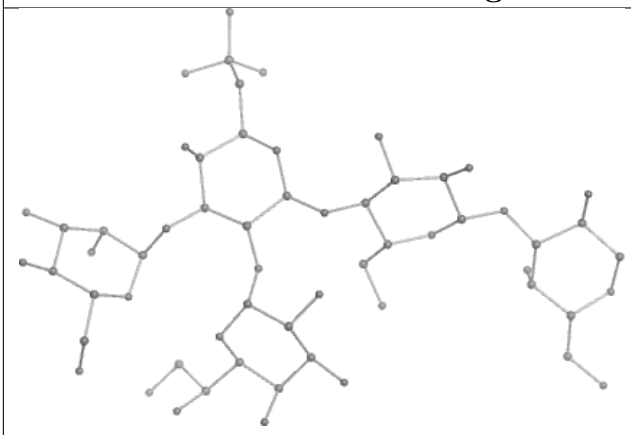


Rings

Oligosaccharide Chain pC



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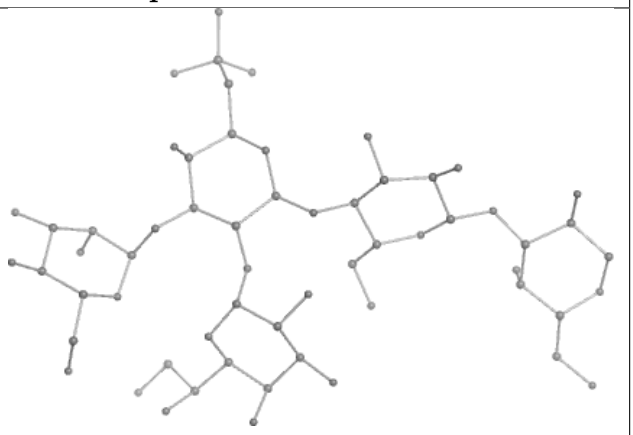
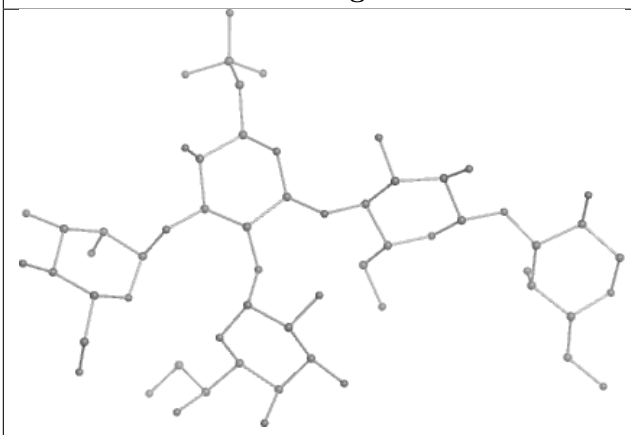


Bond angles



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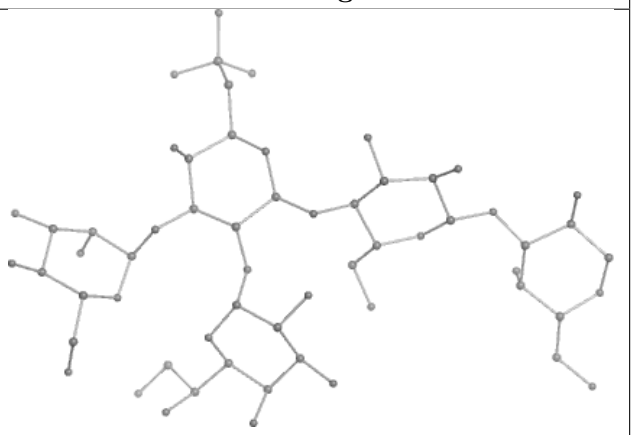
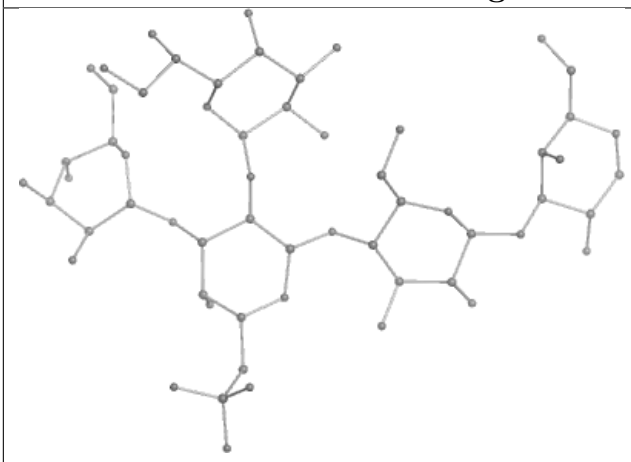


Rings

Oligosaccharide Chain tC



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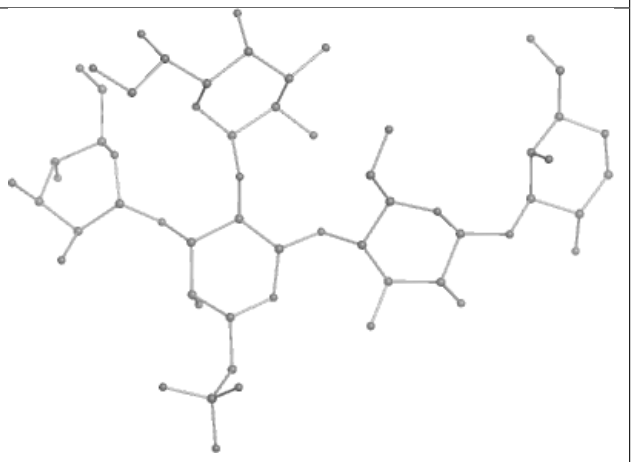

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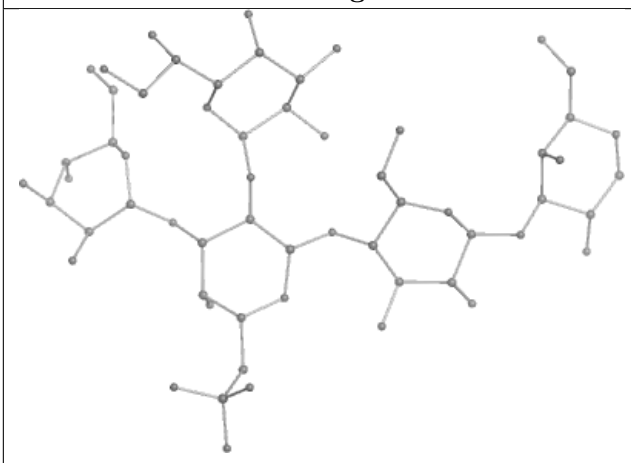

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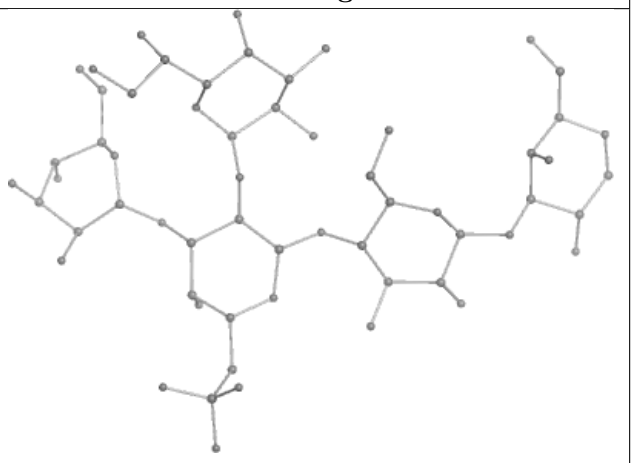
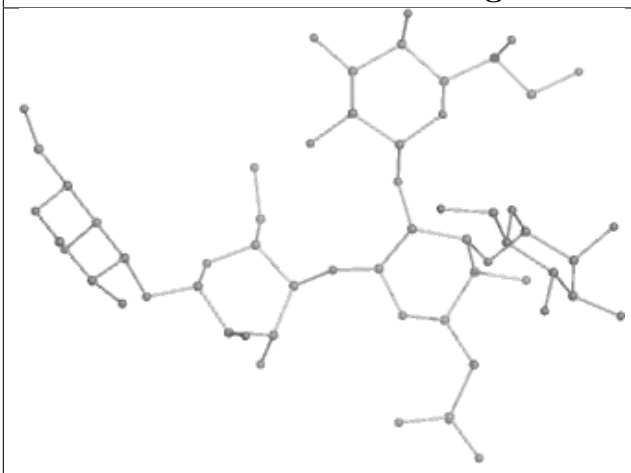


Rings

Oligosaccharide Chain uC



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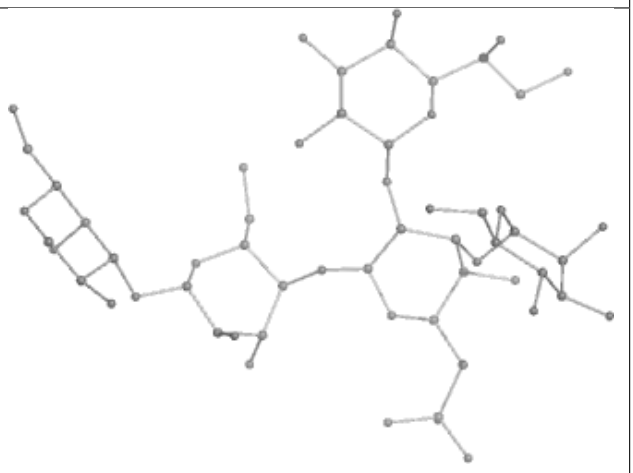
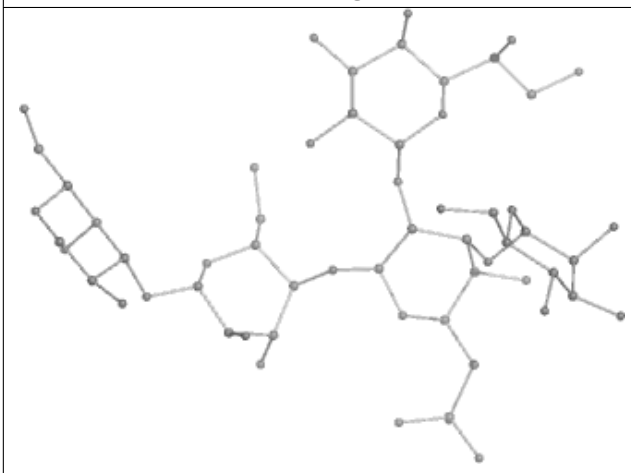


Bond angles



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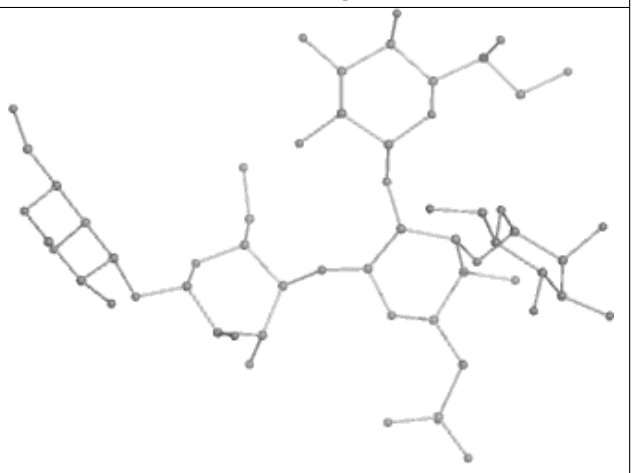
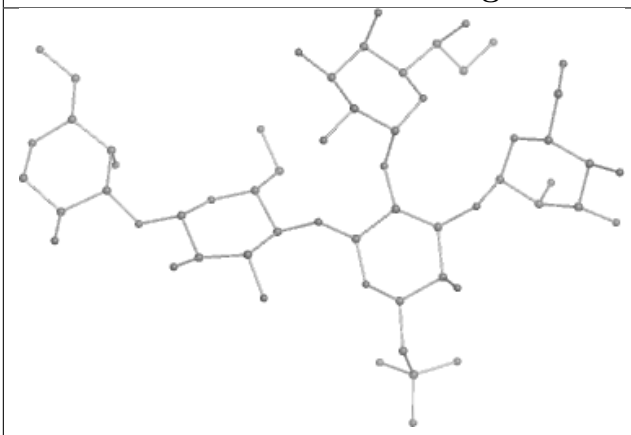
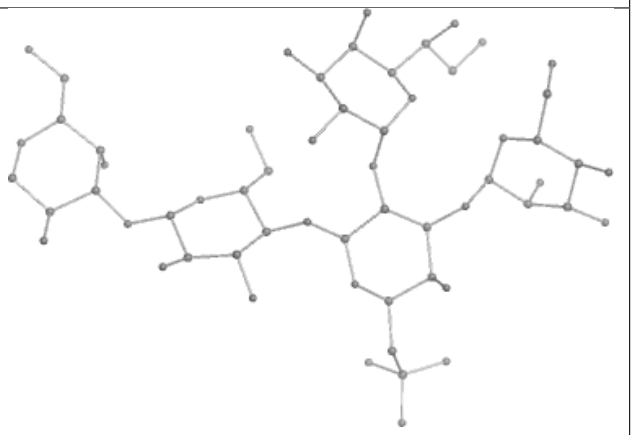


Rings

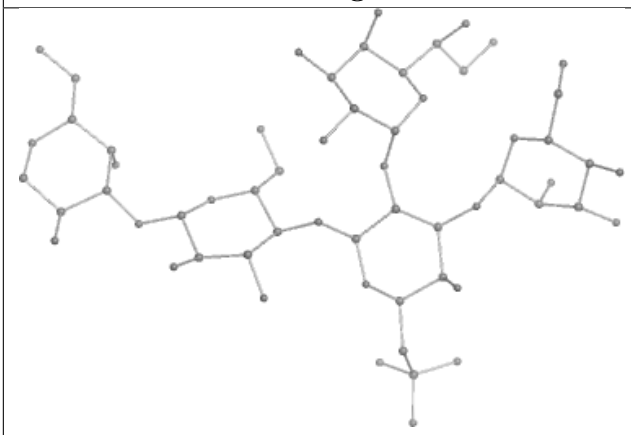
Oligosaccharide Chain wC



Bond lengths



Bond angles



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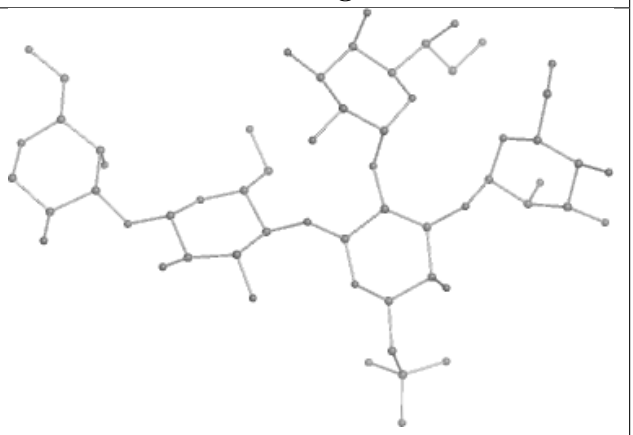
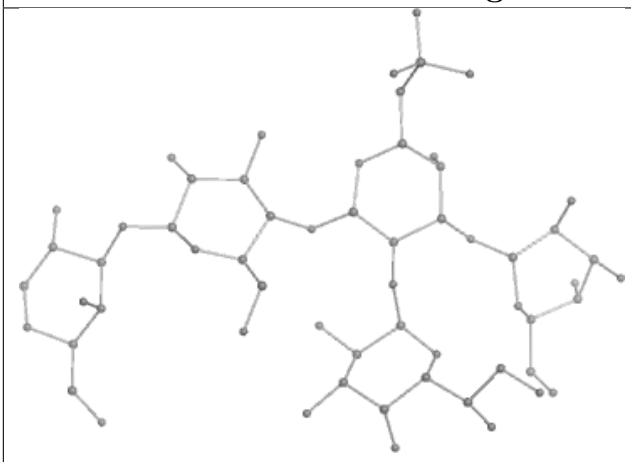


Rings

Oligosaccharide Chain 0C



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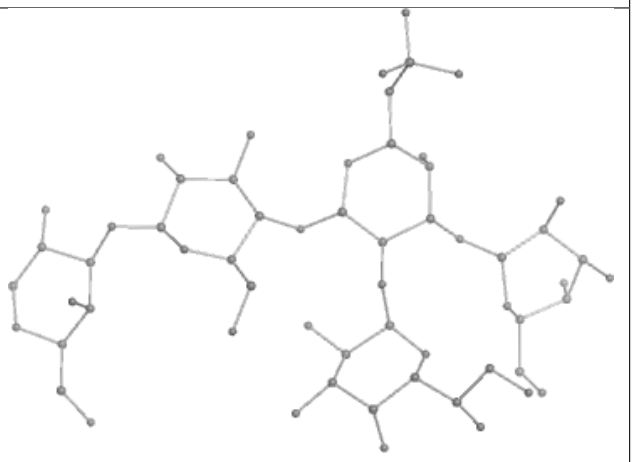

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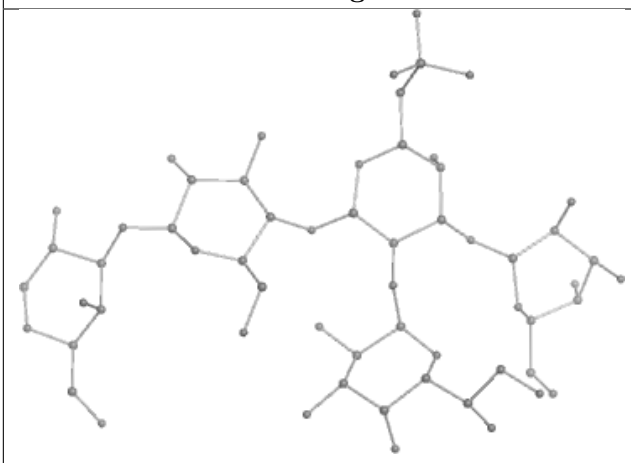

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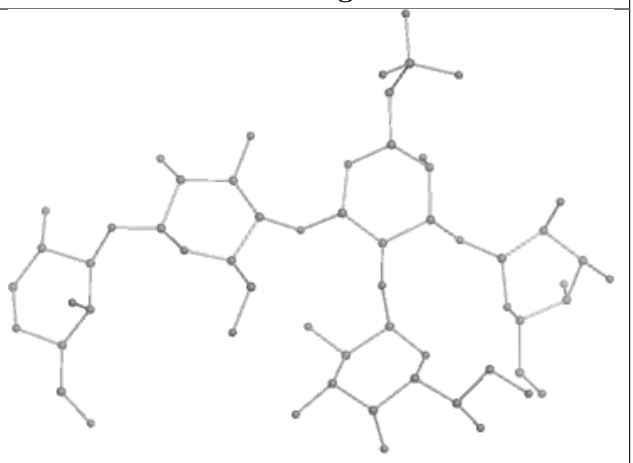
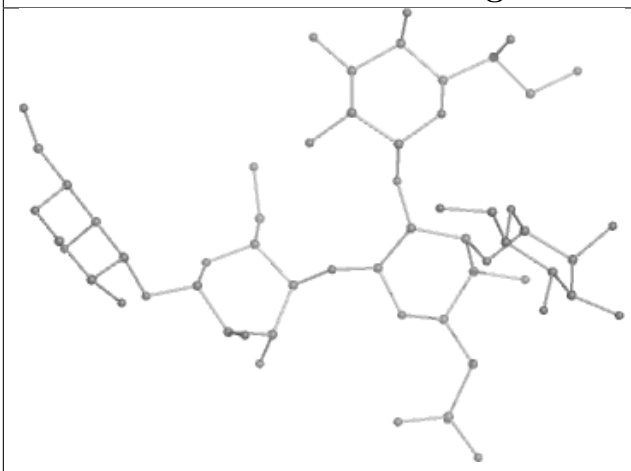


Rings

Oligosaccharide Chain 1C



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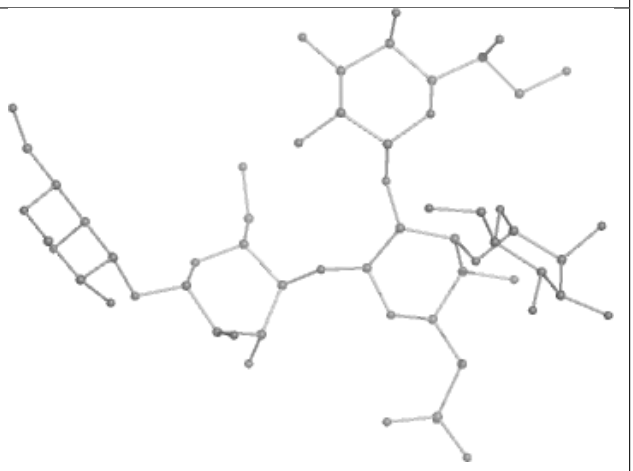

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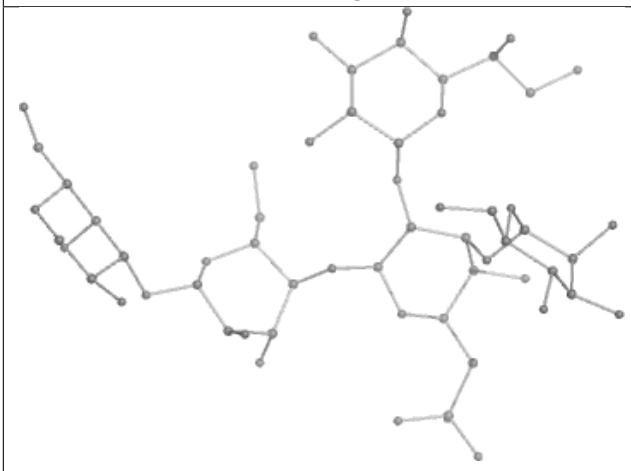

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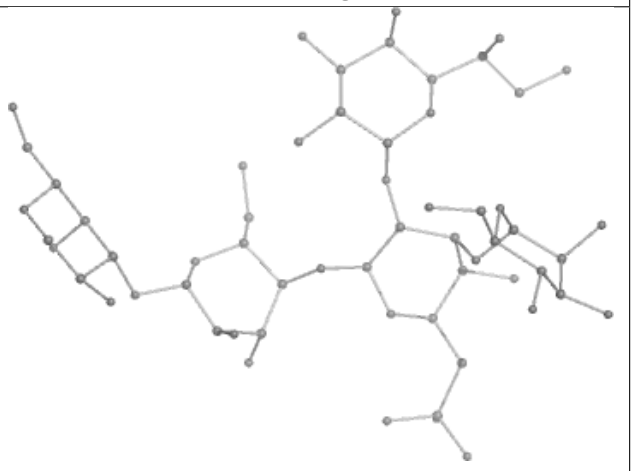
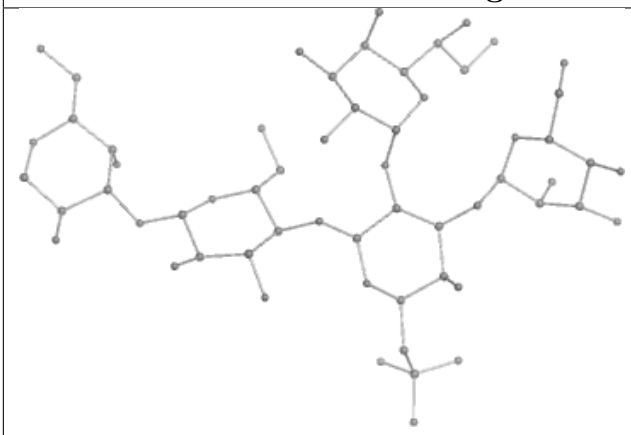


Rings

Oligosaccharide Chain 3C



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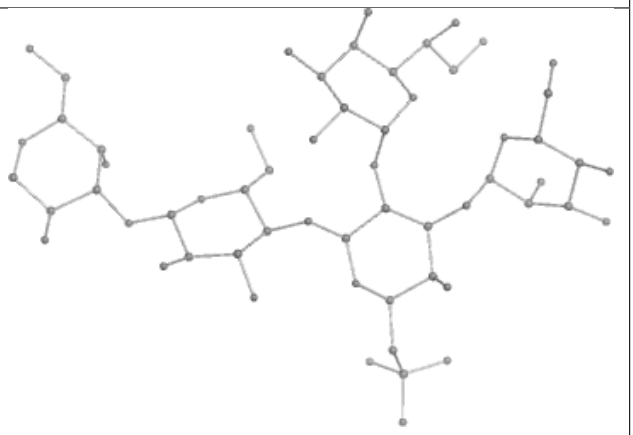
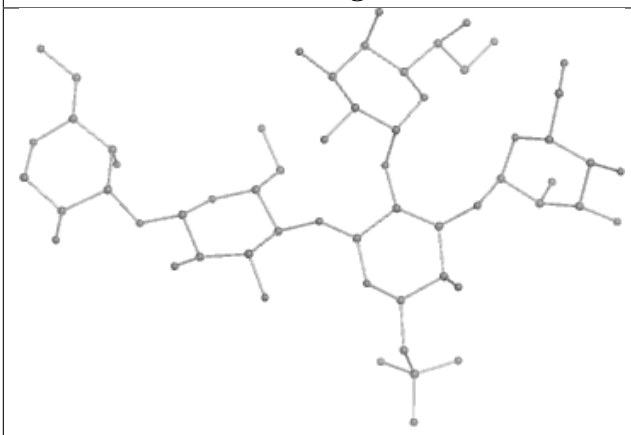


Bond angles



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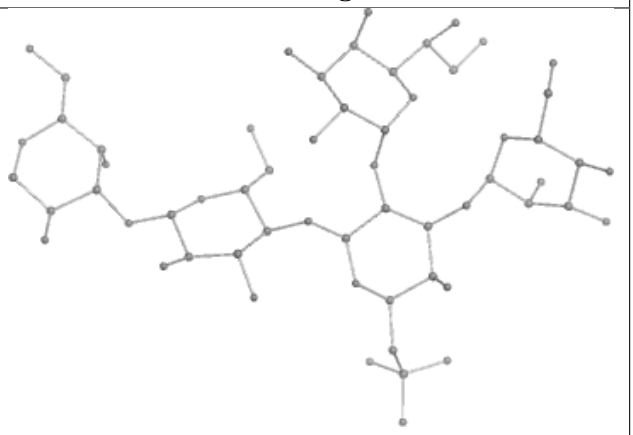
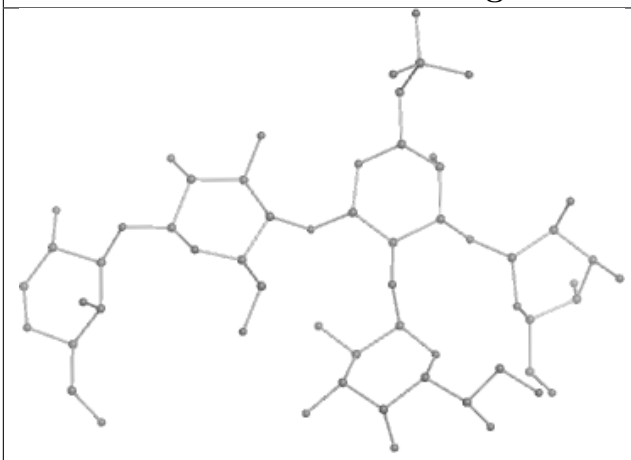


Rings

Oligosaccharide Chain 7C



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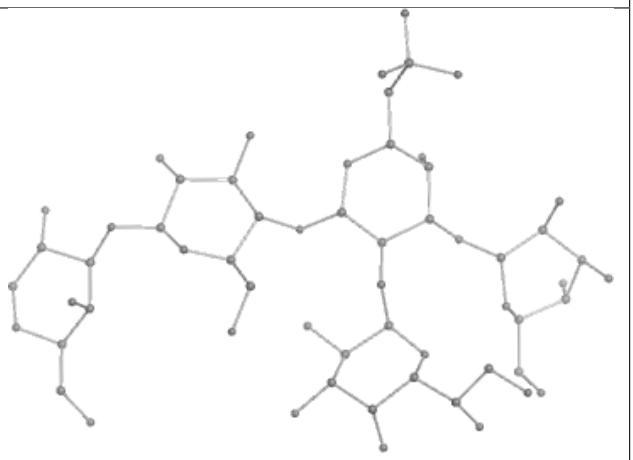

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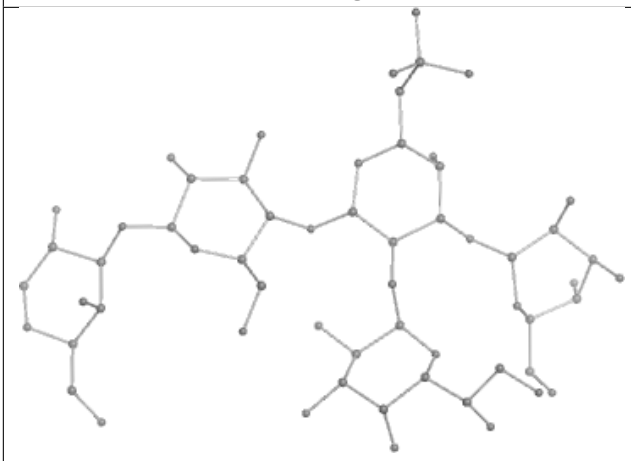

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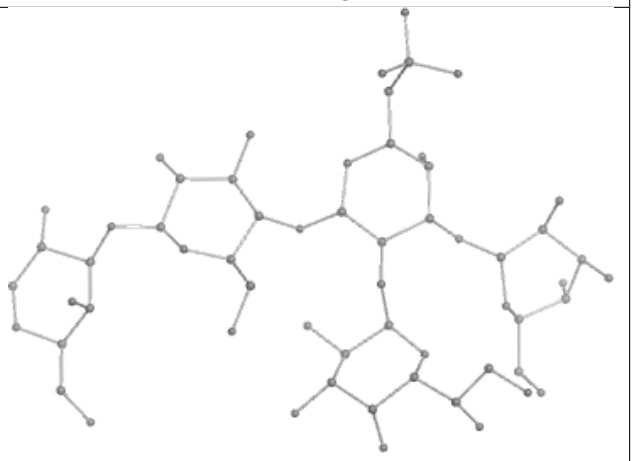
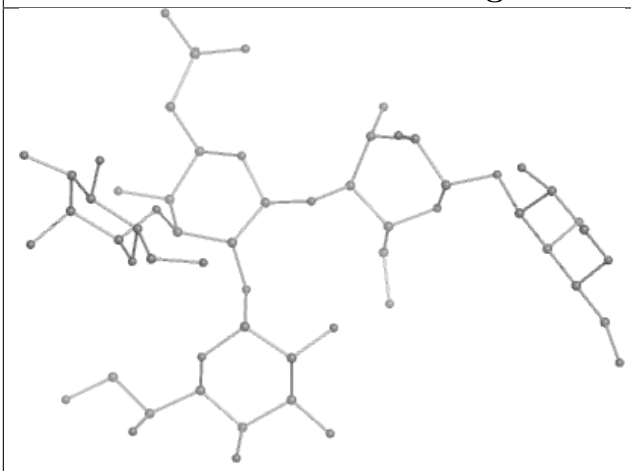


Rings

Oligosaccharide Chain 8C



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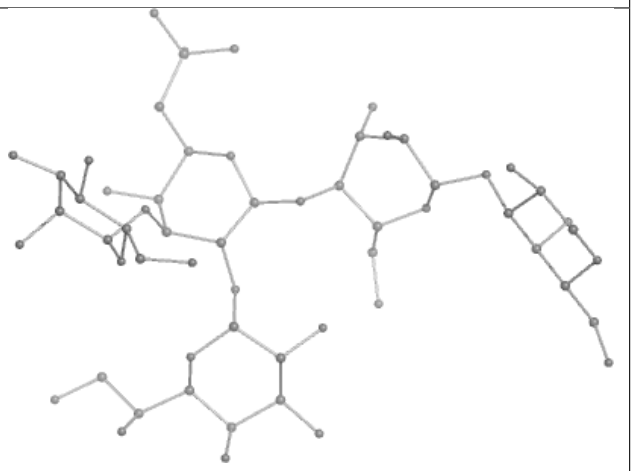

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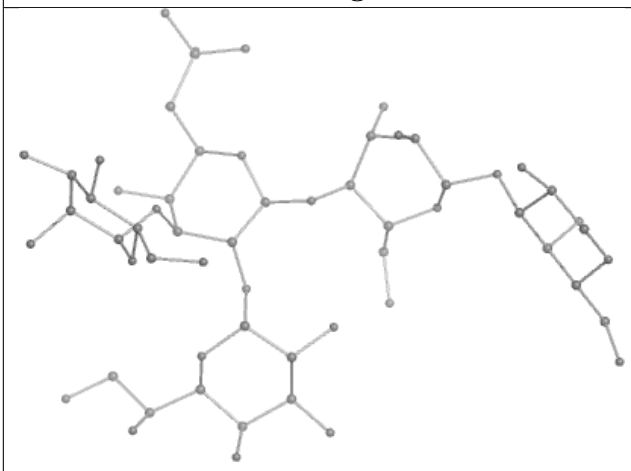

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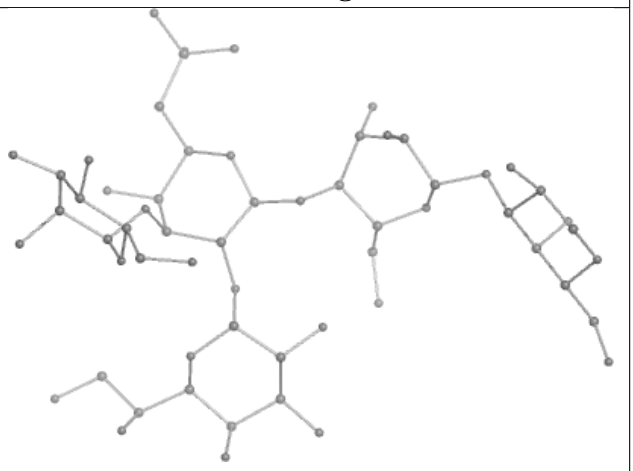
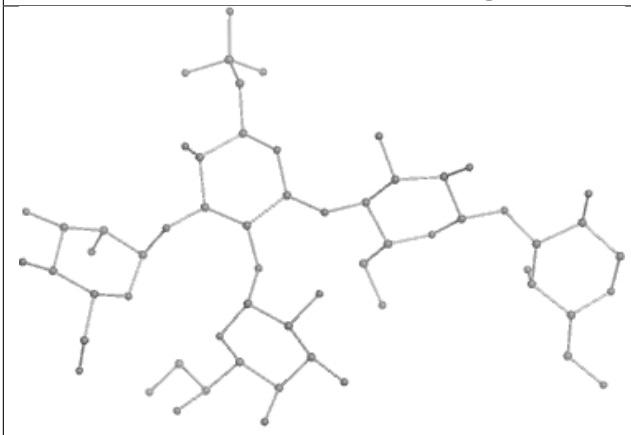


Rings

Oligosaccharide Chain AD



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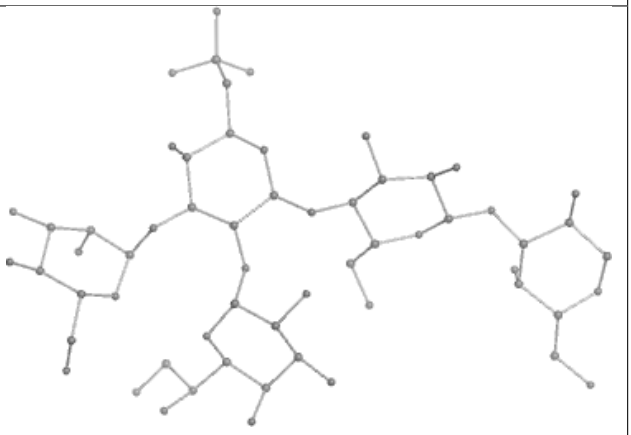
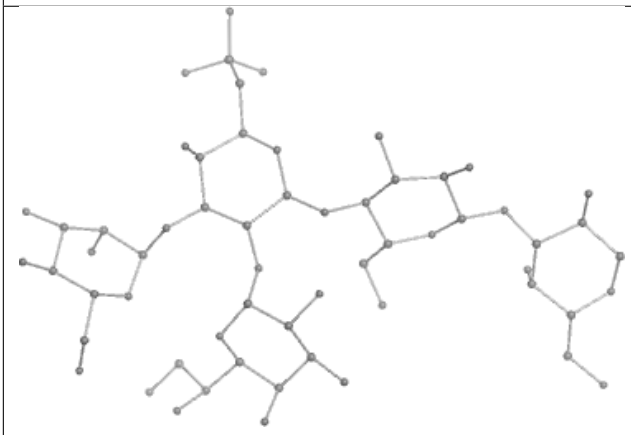


Bond angles



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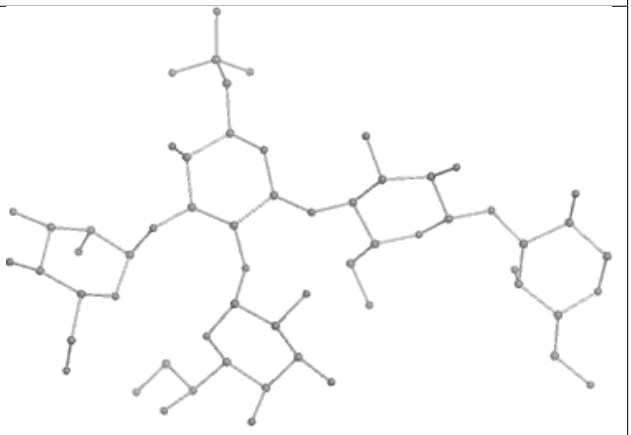
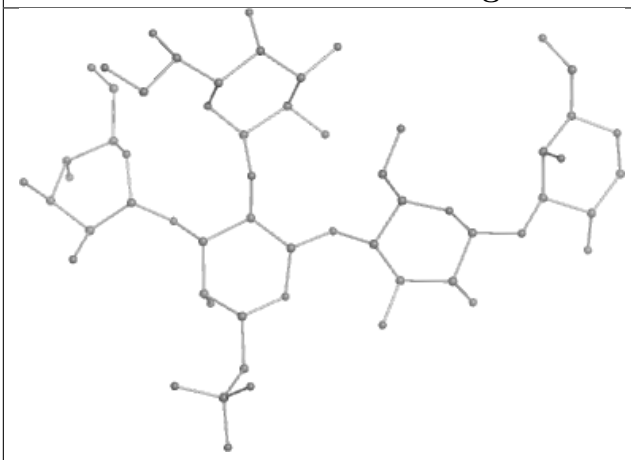


Rings

Oligosaccharide Chain ED



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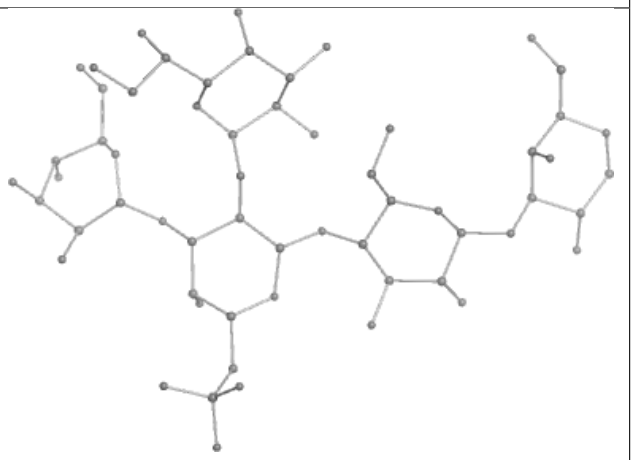
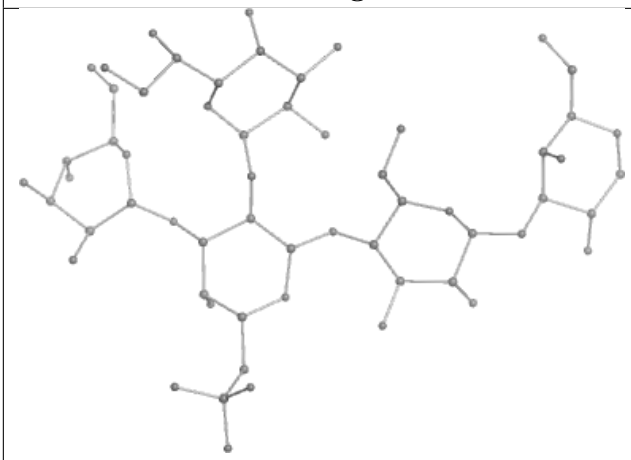


Bond angles



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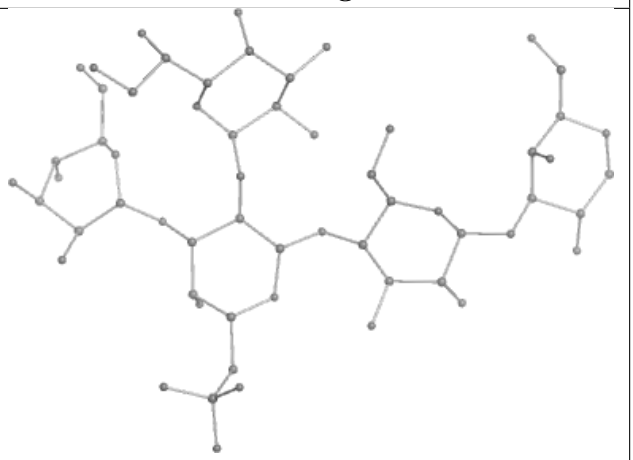
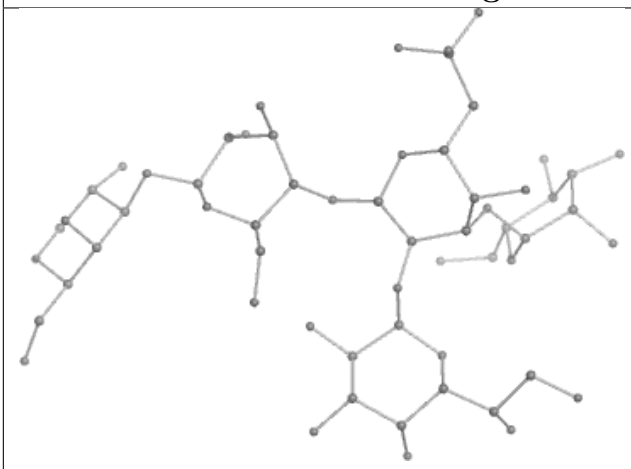
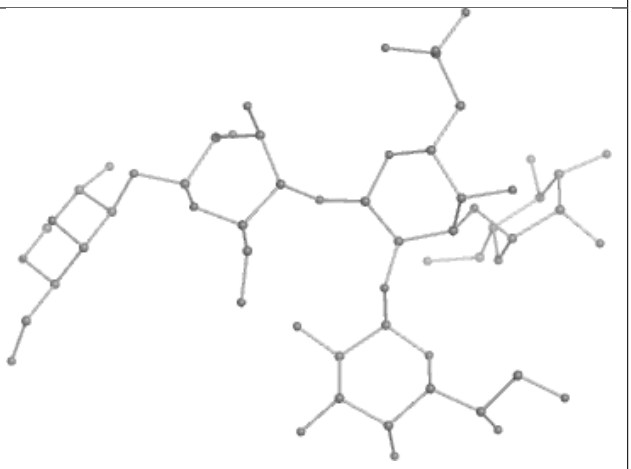


Rings

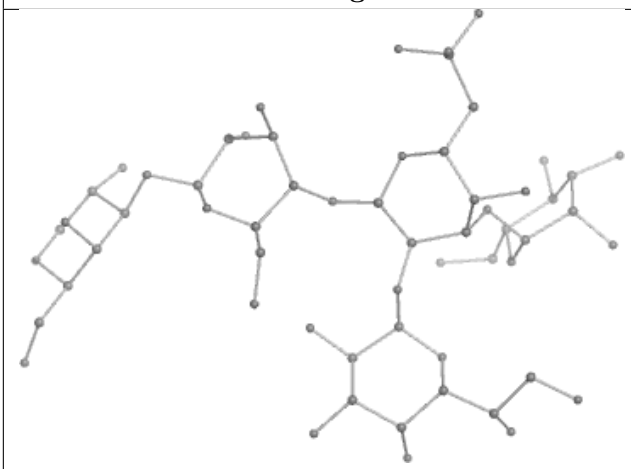
Oligosaccharide Chain FD



Bond lengths



Bond angles



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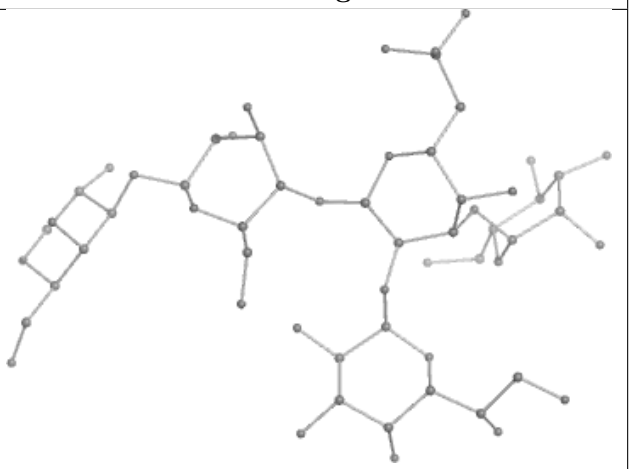
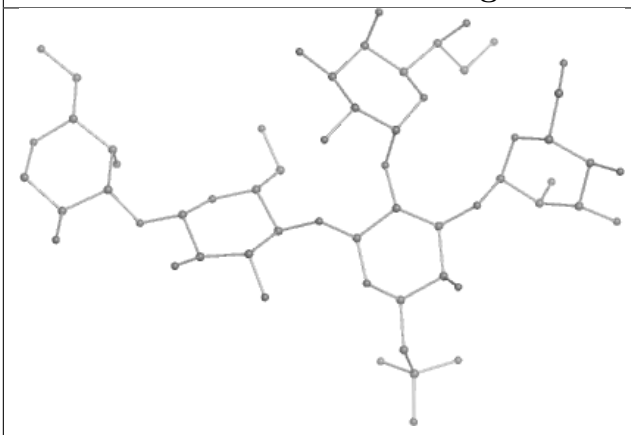


Rings

Oligosaccharide Chain HD



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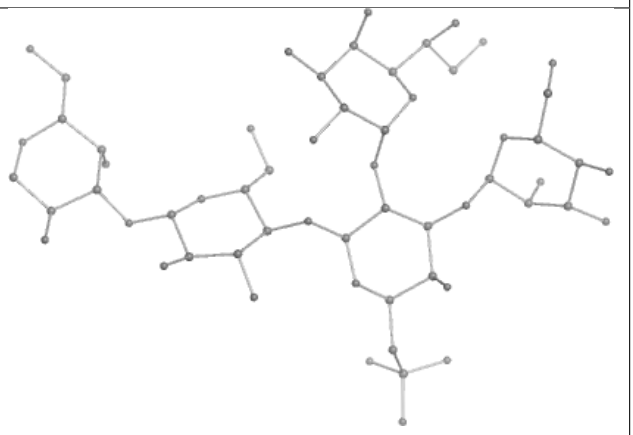
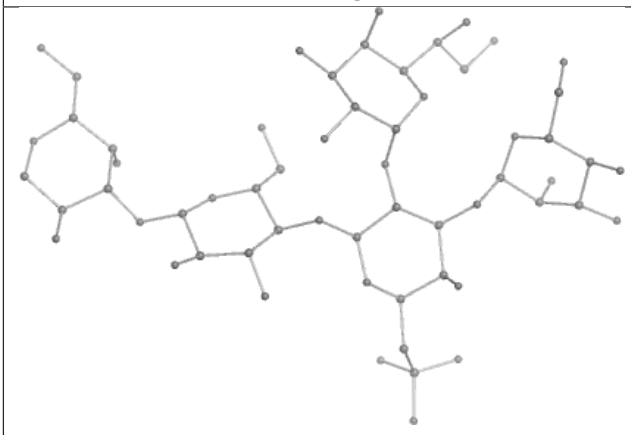


Bond angles



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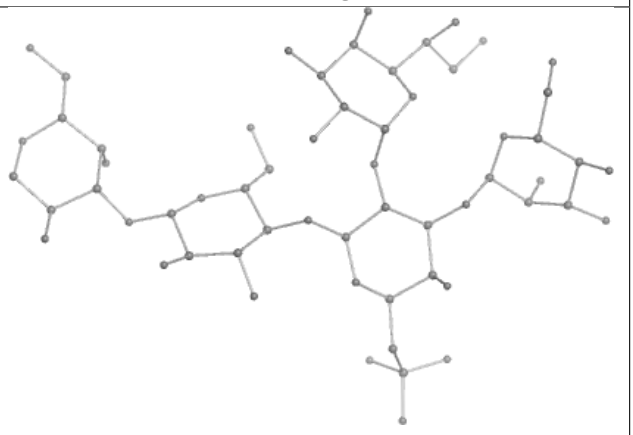
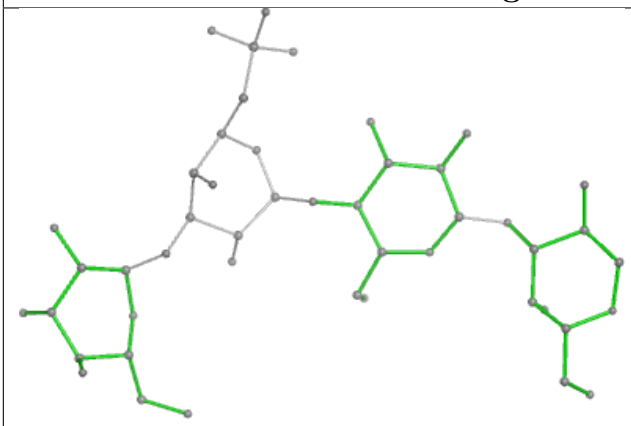
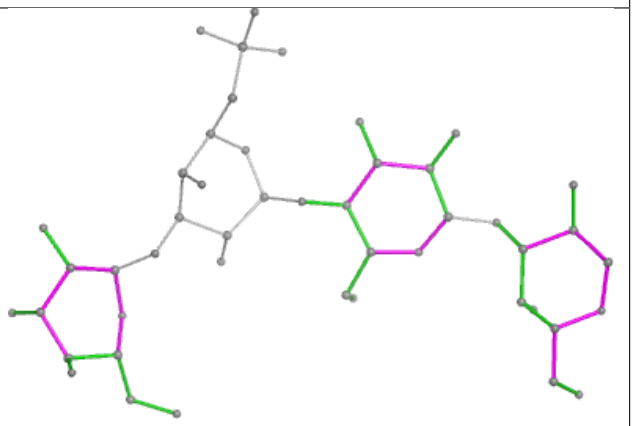


Rings

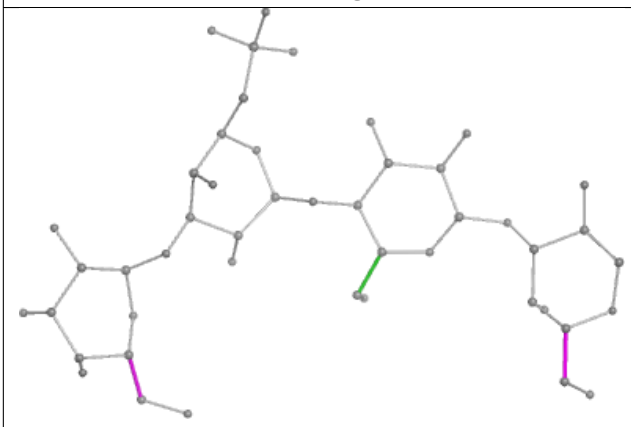
Oligosaccharide Chain l



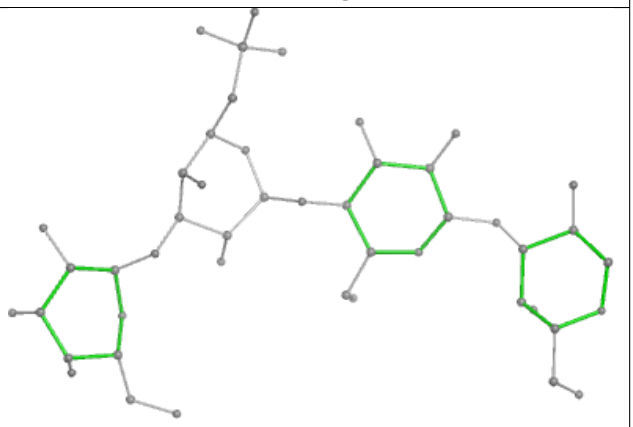
Bond lengths



Bond angles

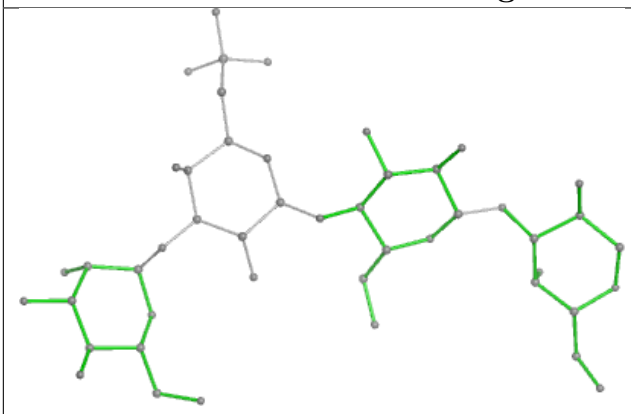


Torsions



Rings

Oligosaccharide Chain n



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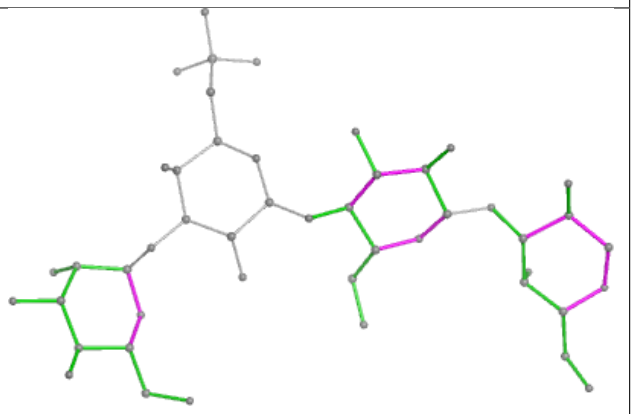
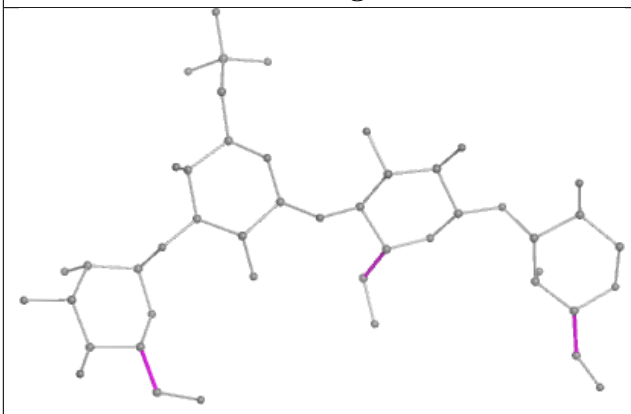


Bond angles



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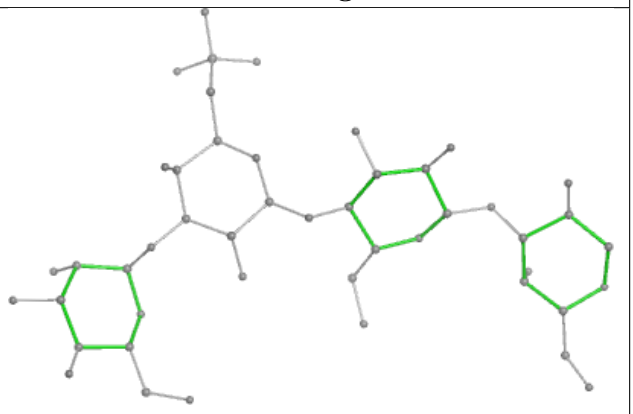
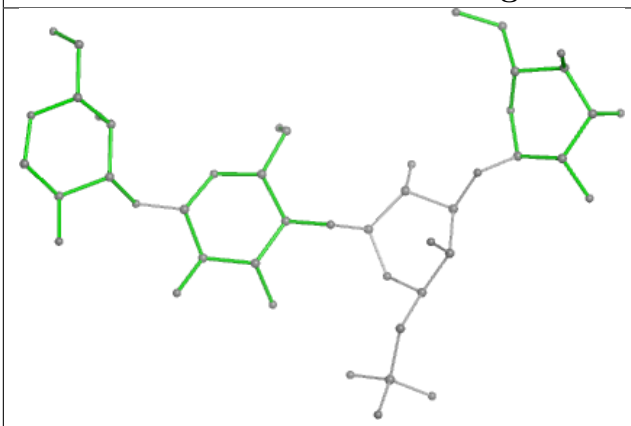


Rings

Oligosaccharide Chain s



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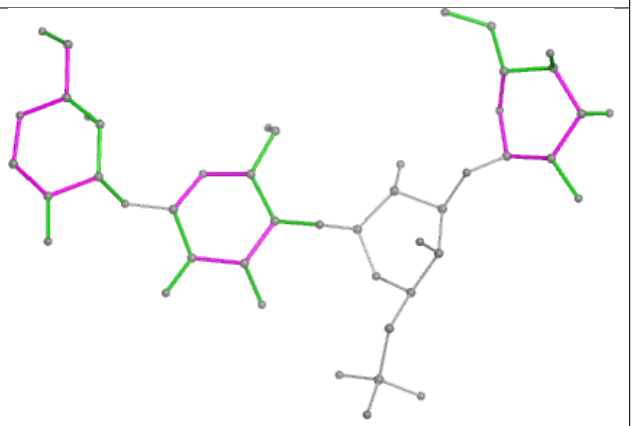

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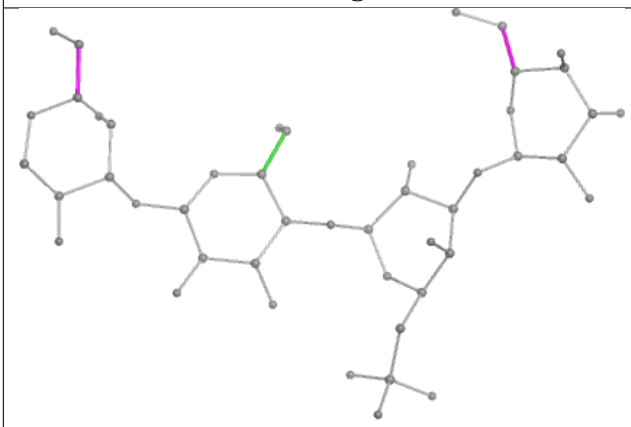

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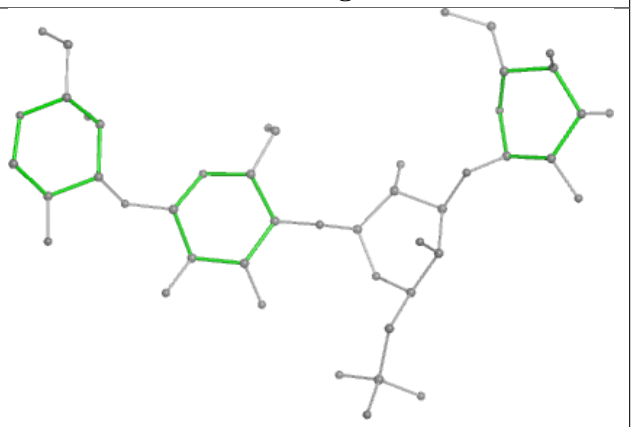
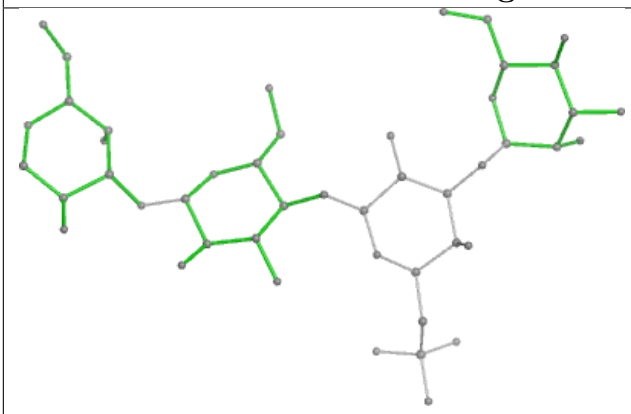


Rings

Oligosaccharide Chain u



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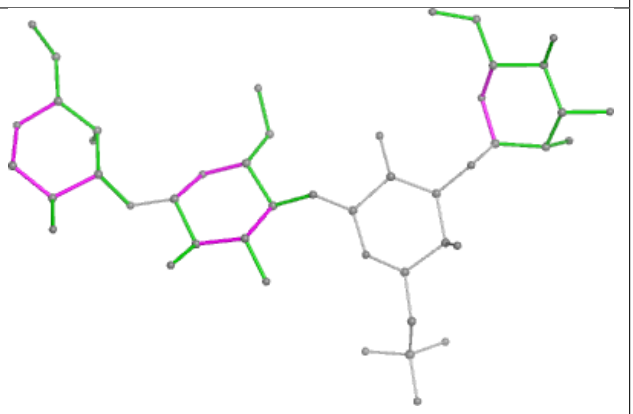

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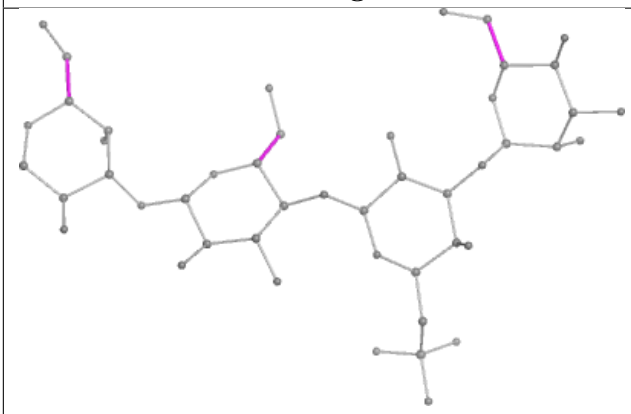

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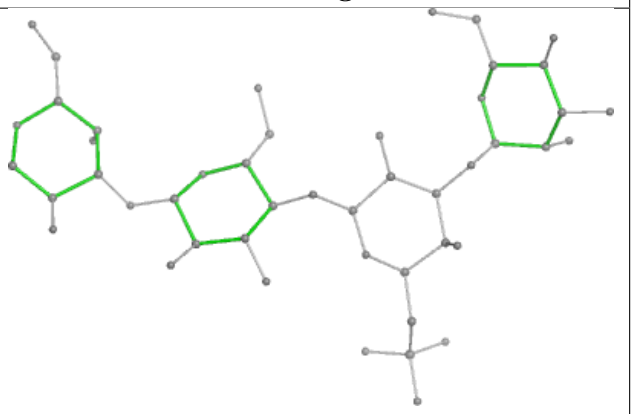
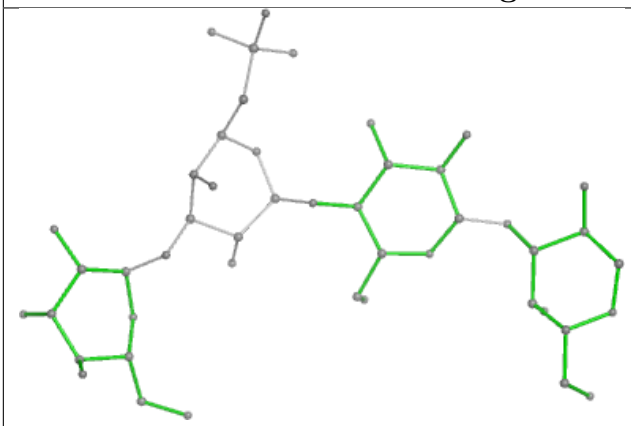


Rings

Oligosaccharide Chain z



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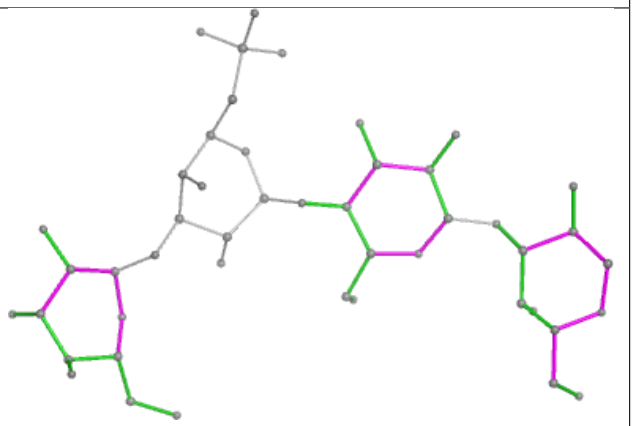

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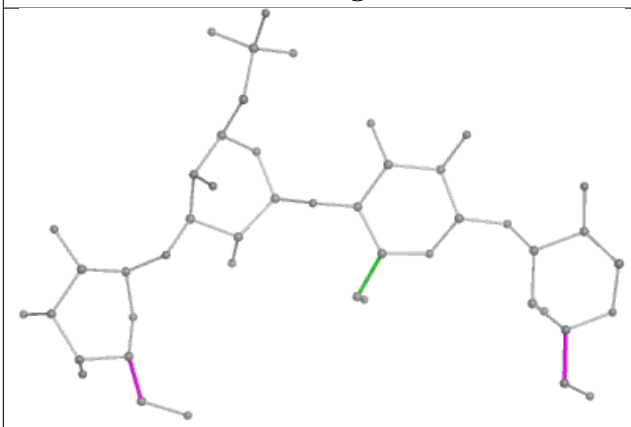

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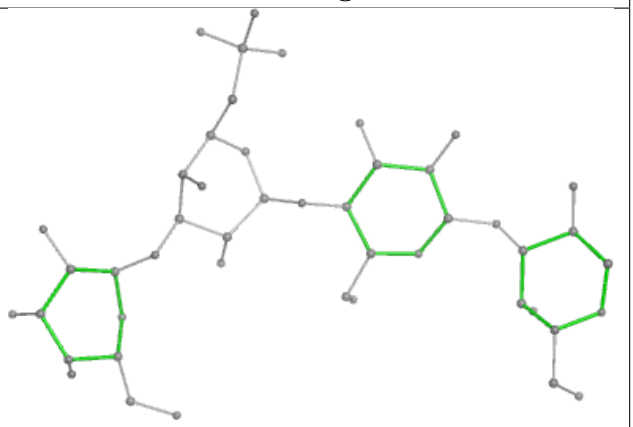
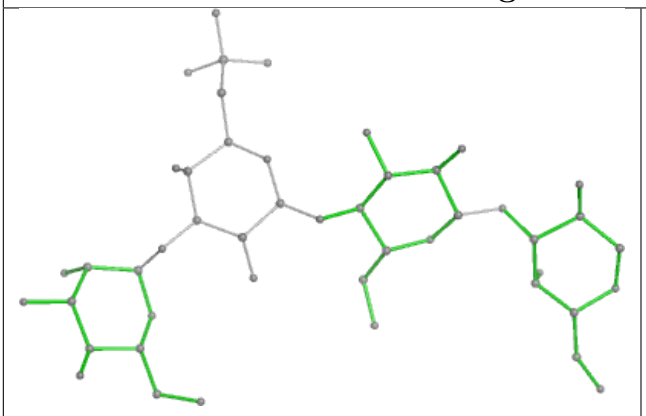


Rings

Oligosaccharide Chain 1



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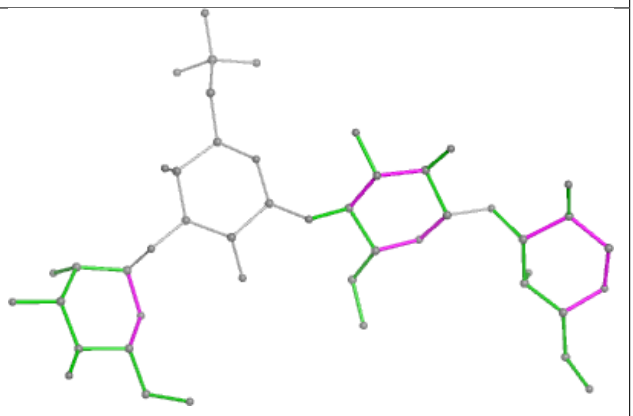

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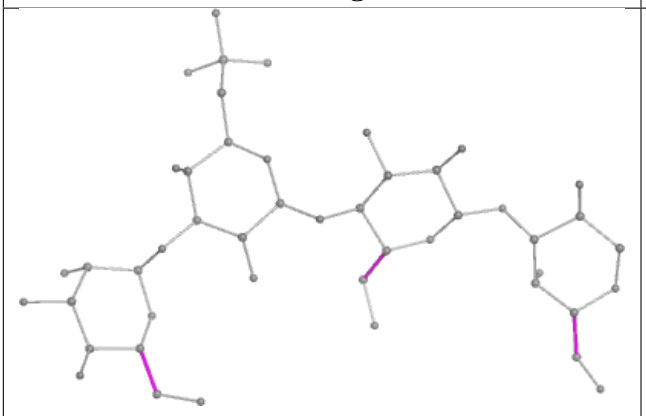

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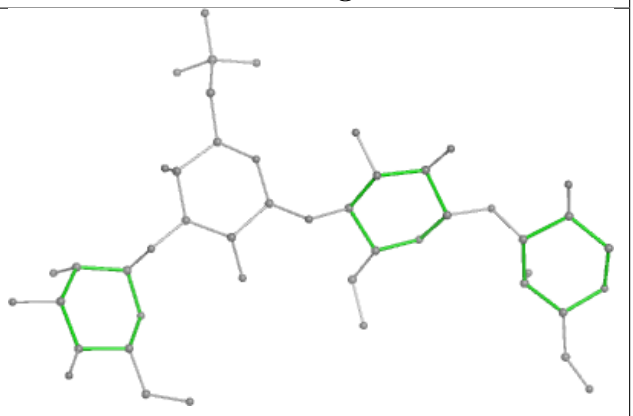
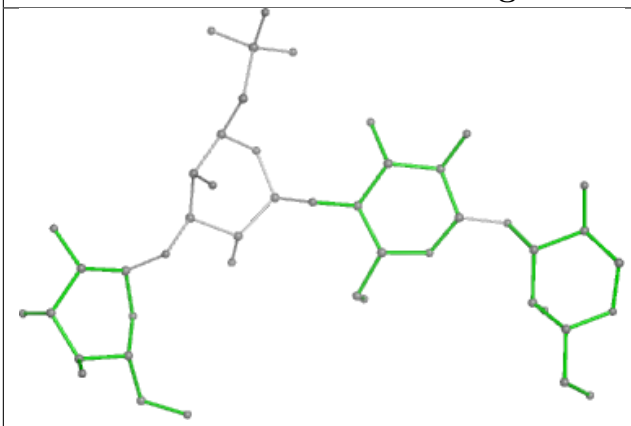


Rings

Oligosaccharide Chain 6



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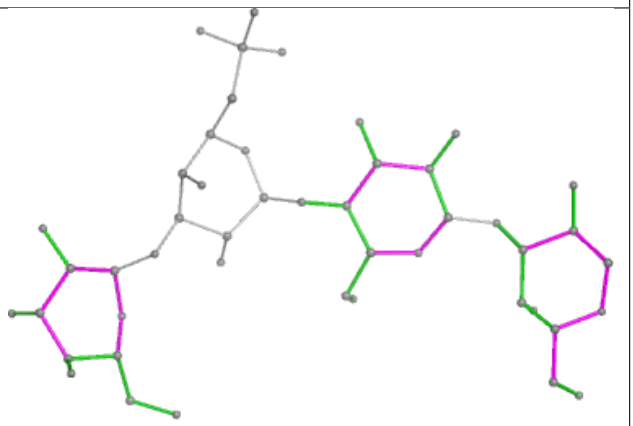
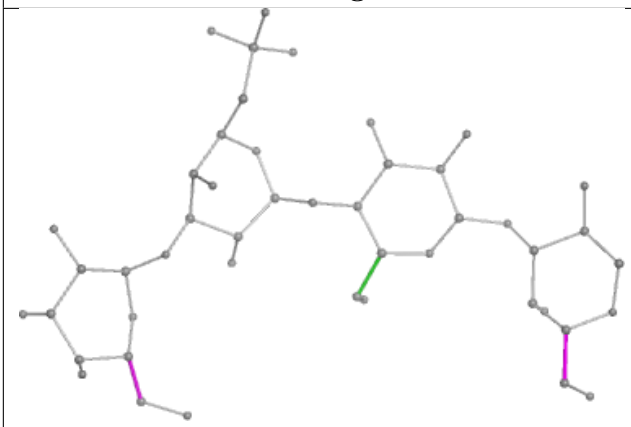


Bond angles



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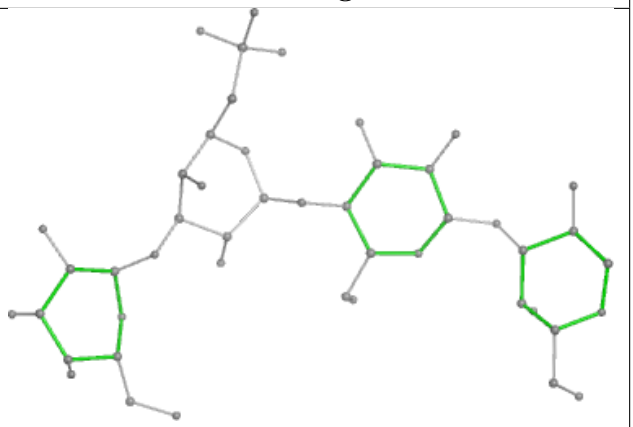
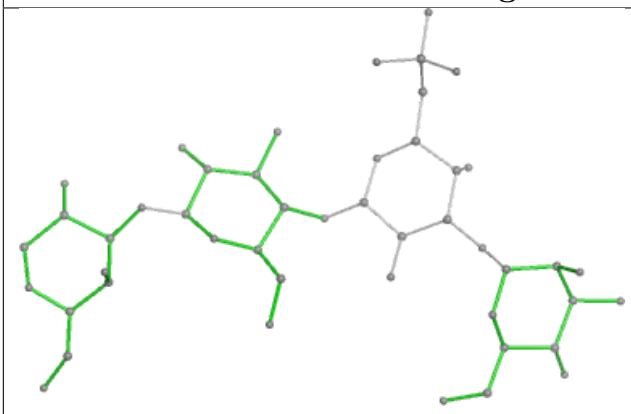


Rings

Oligosaccharide Chain 8



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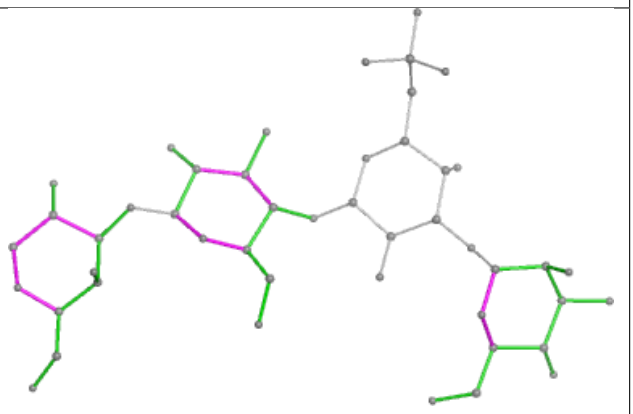

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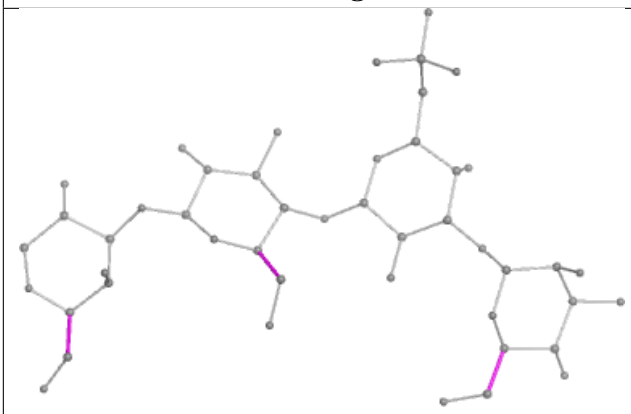

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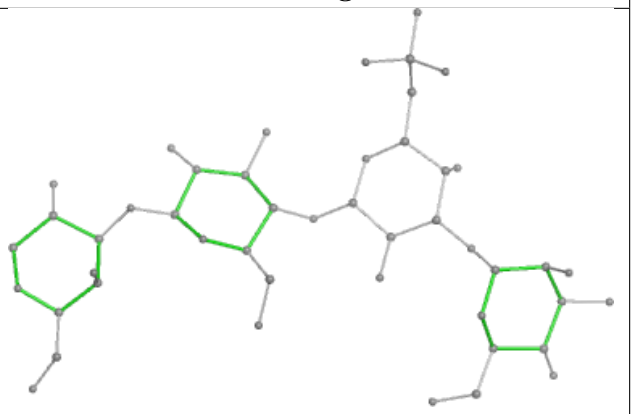
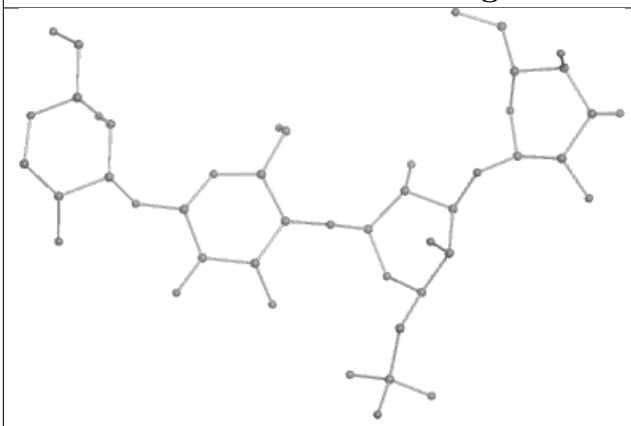


Rings

Oligosaccharide Chain DA



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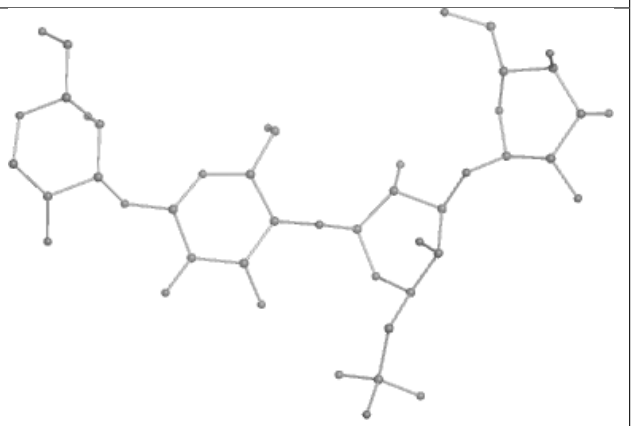
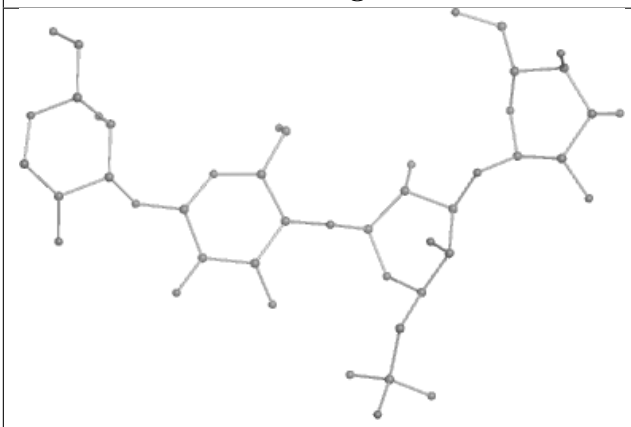


Bond angles



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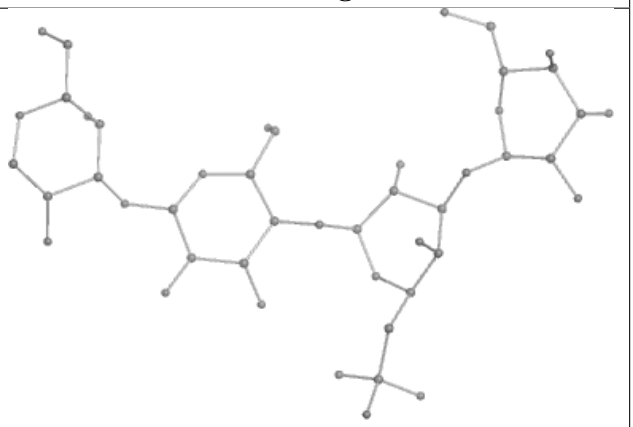
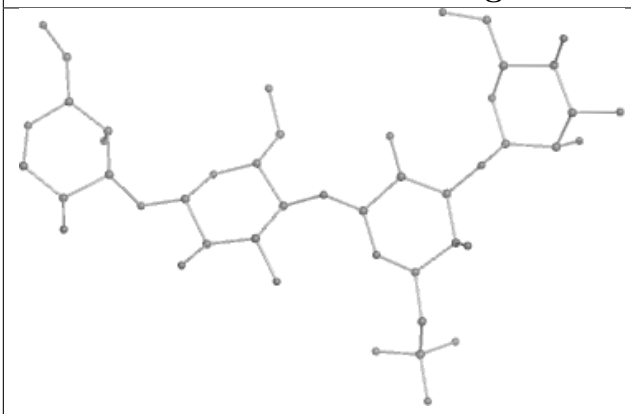


Rings

Oligosaccharide Chain FA



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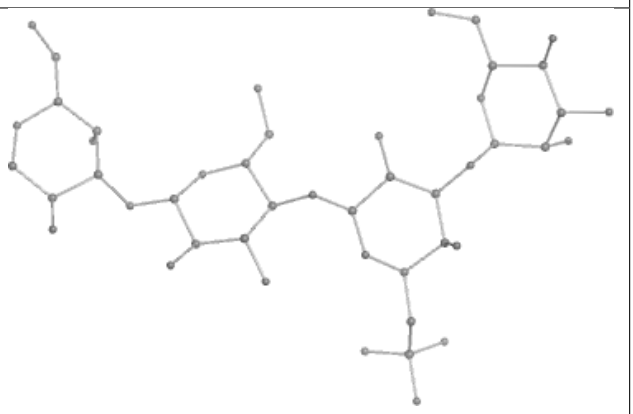

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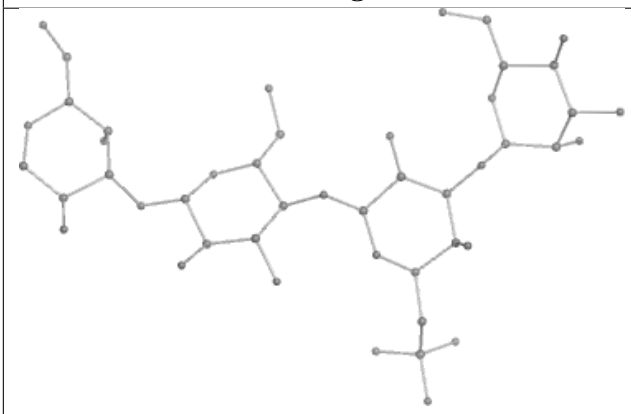

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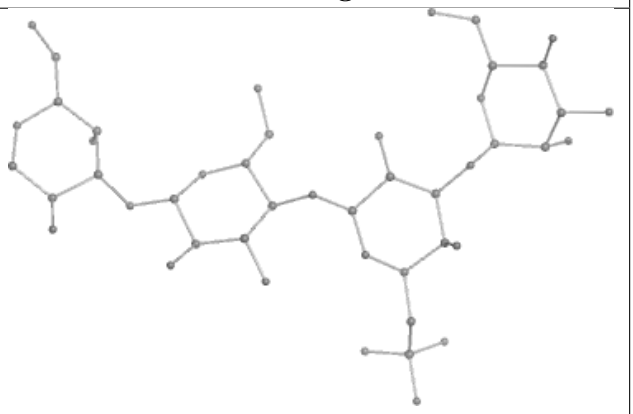
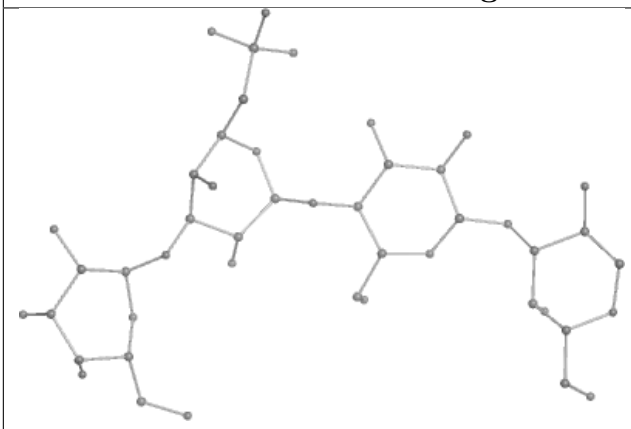


Rings

Oligosaccharide Chain KA



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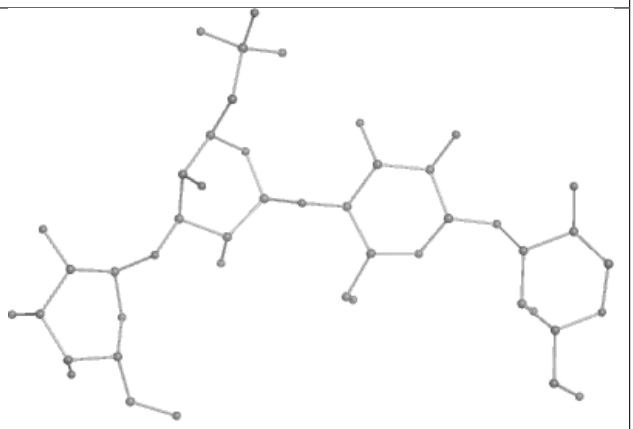
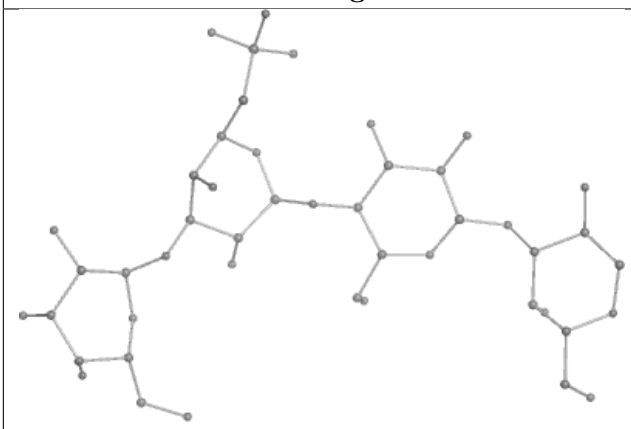


Bond angles



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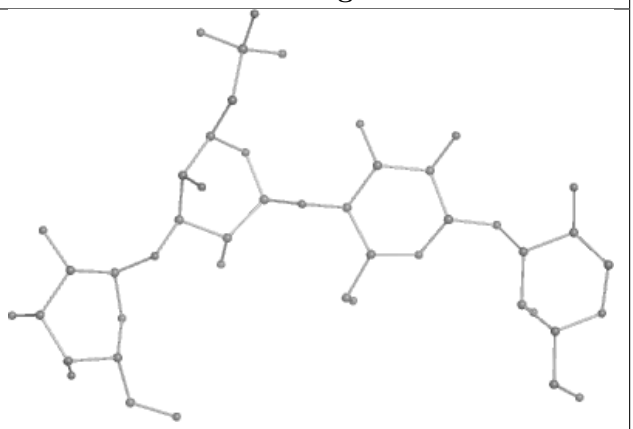
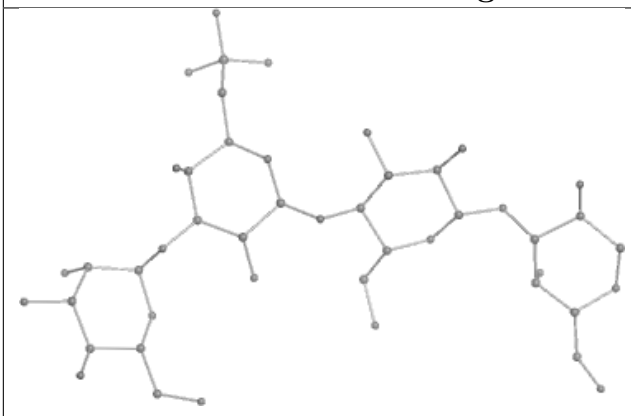


Rings

Oligosaccharide Chain MA



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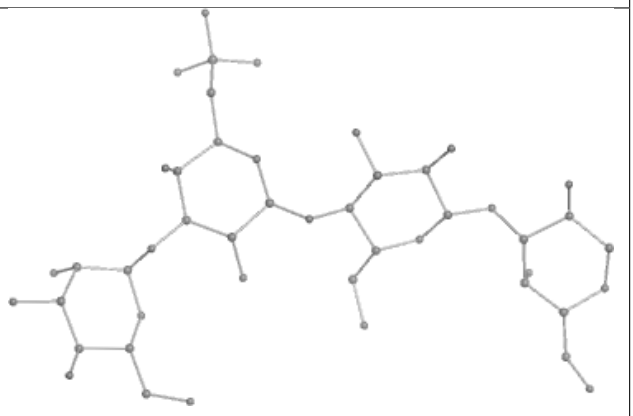
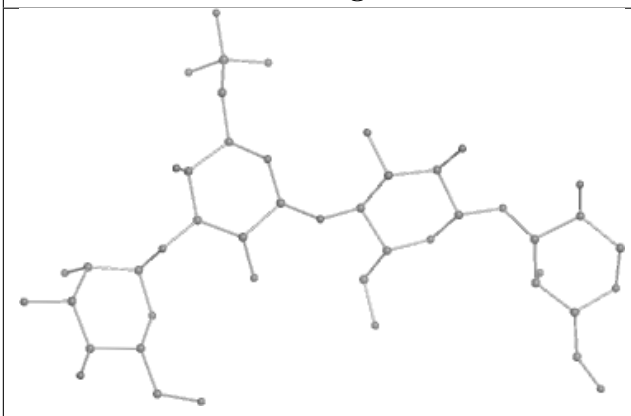


Bond angles



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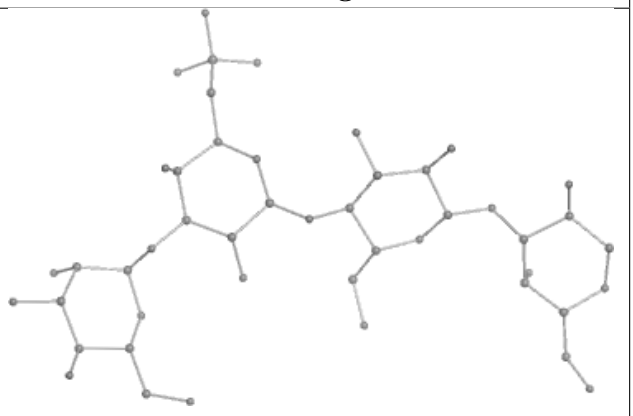
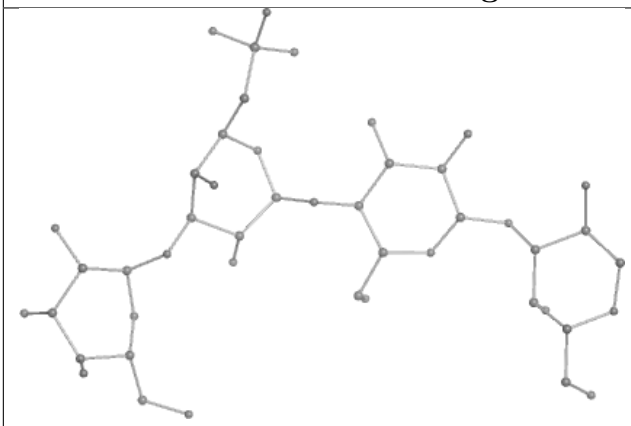


Rings

Oligosaccharide Chain RA



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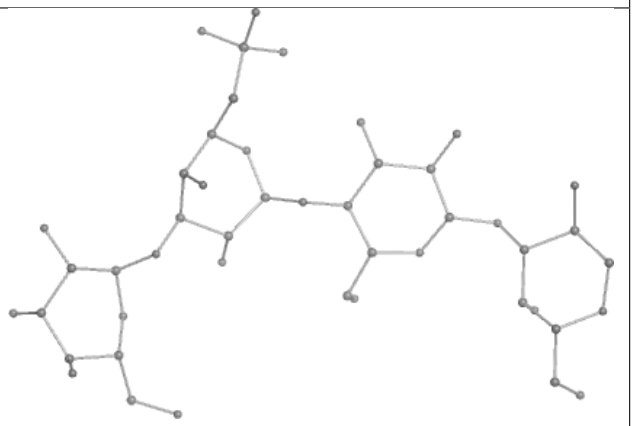
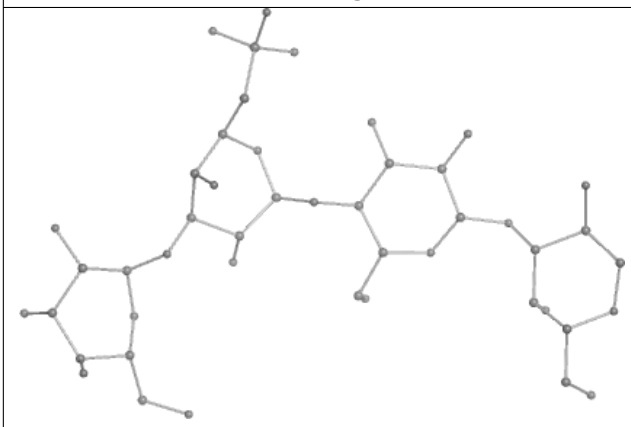
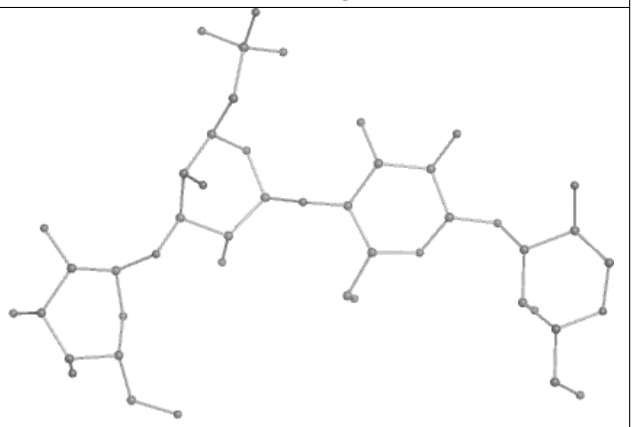


Bond angles

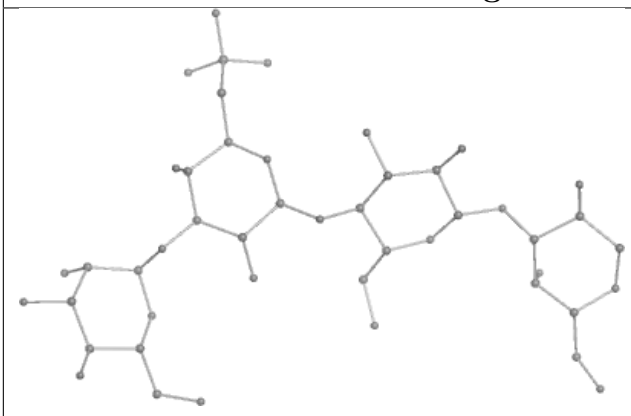


Torsions

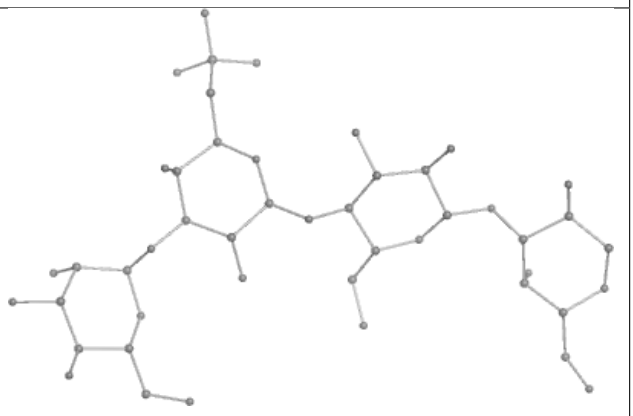


Rings

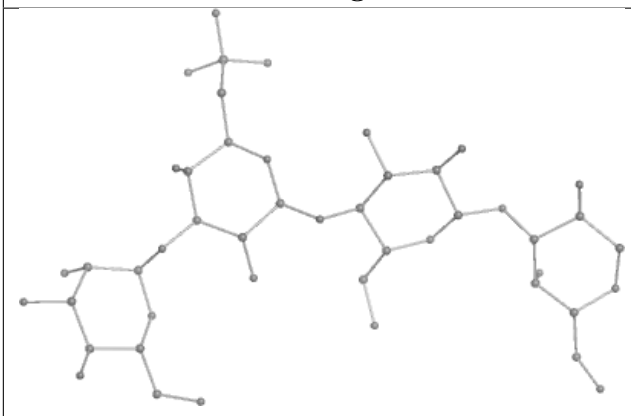
Oligosaccharide Chain TA



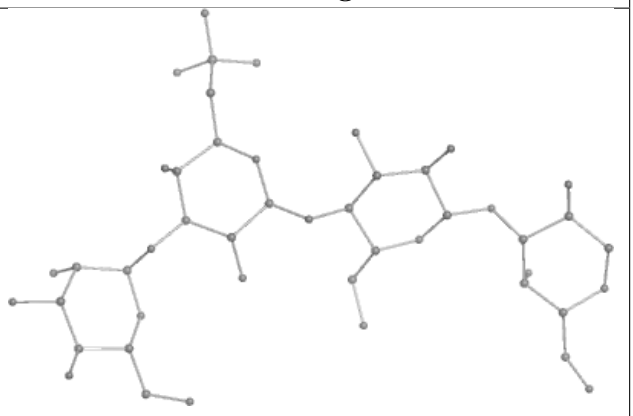
Bond lengths



Bond angles

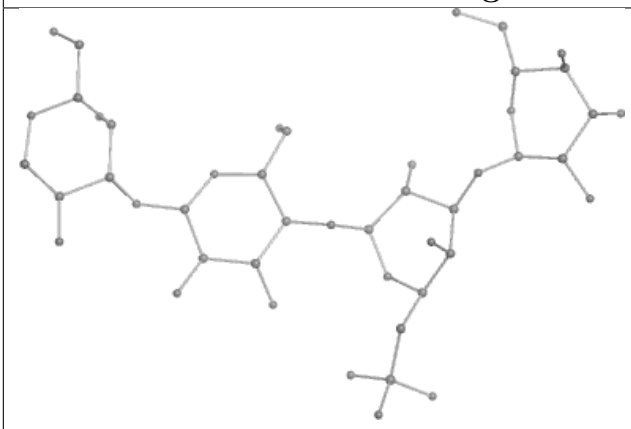


Torsions

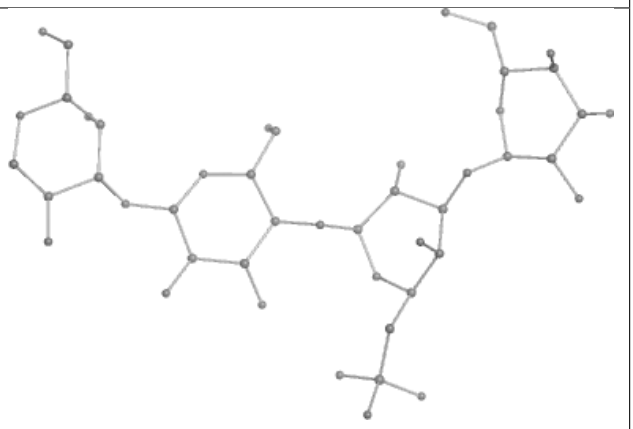


Rings

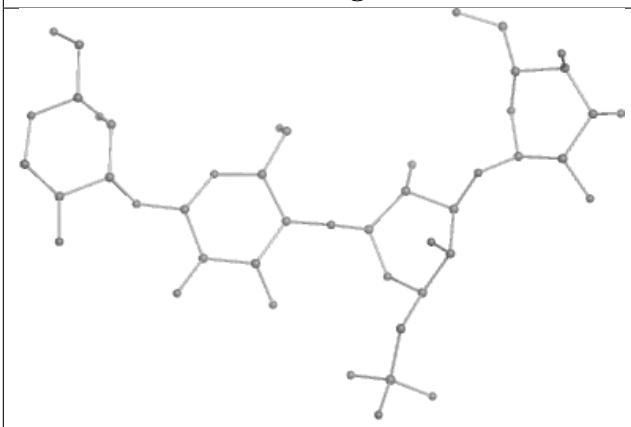
Oligosaccharide Chain YA



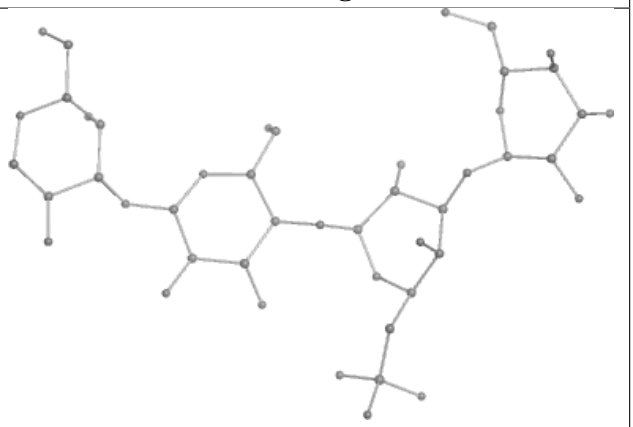
Bond lengths



Bond angles

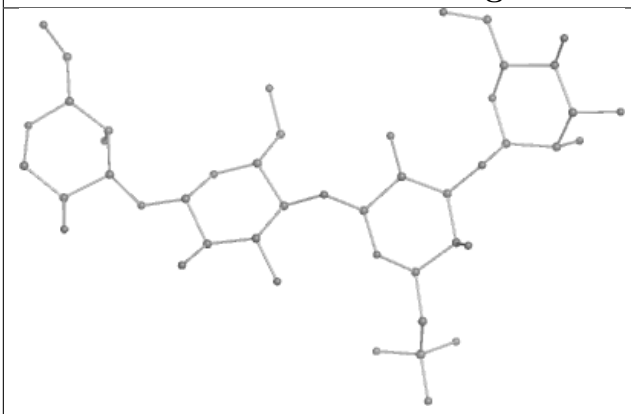


Torsions

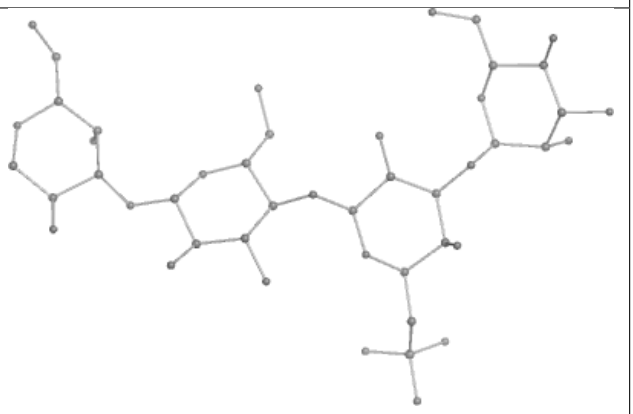


Rings

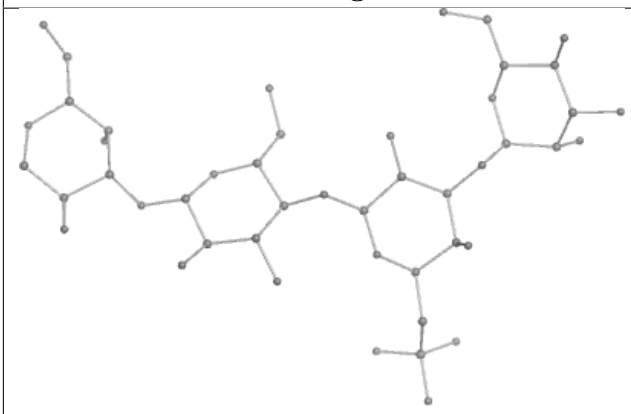
Oligosaccharide Chain aA



Bond lengths



Bond angles



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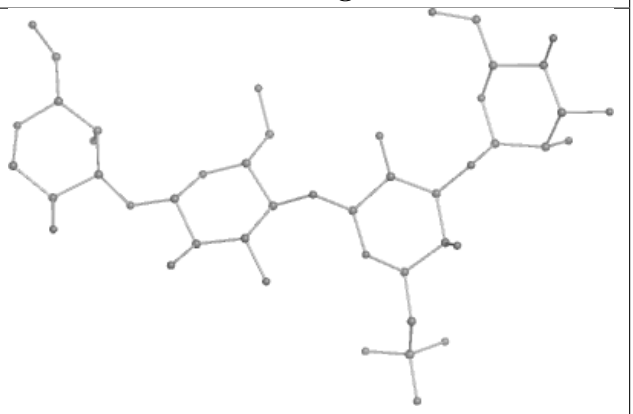
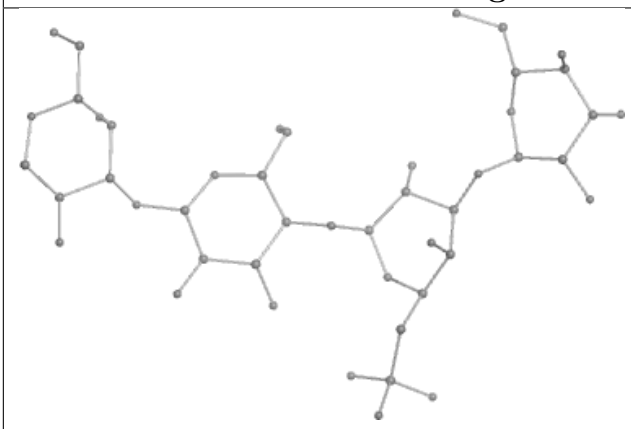


Rings

Oligosaccharide Chain fA



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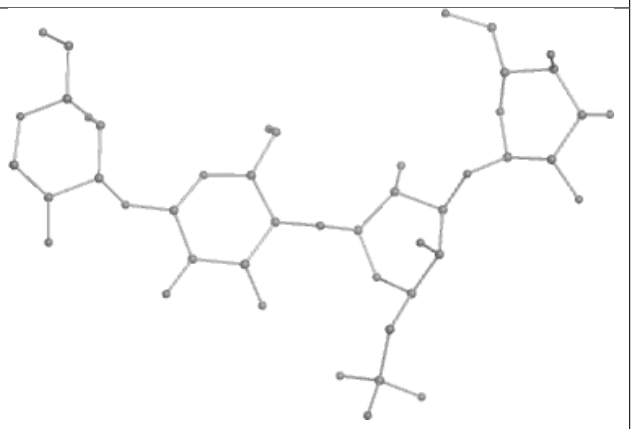
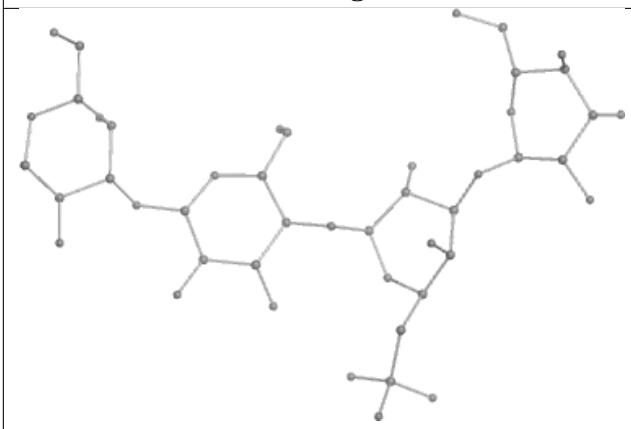
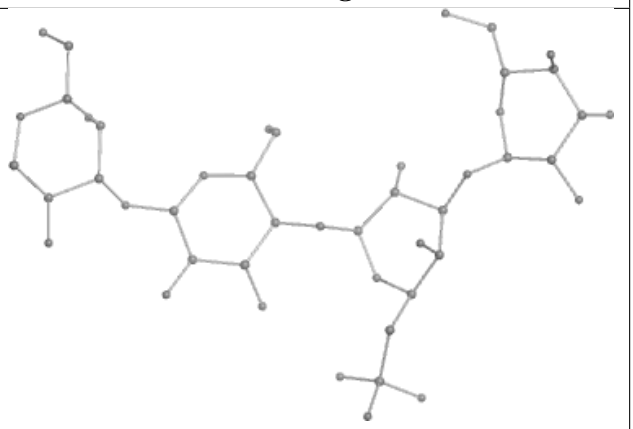


Bond angles

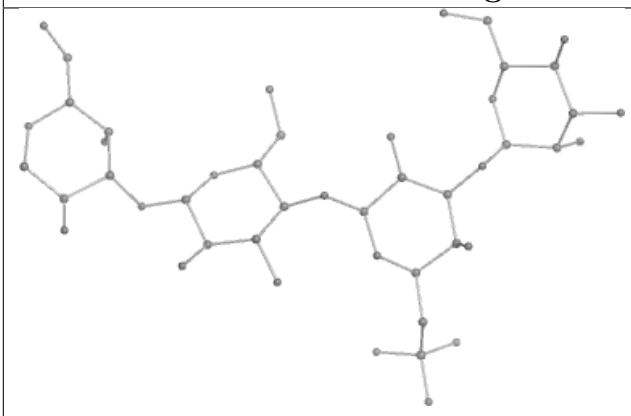


Torsions



Rings

Oligosaccharide Chain hA



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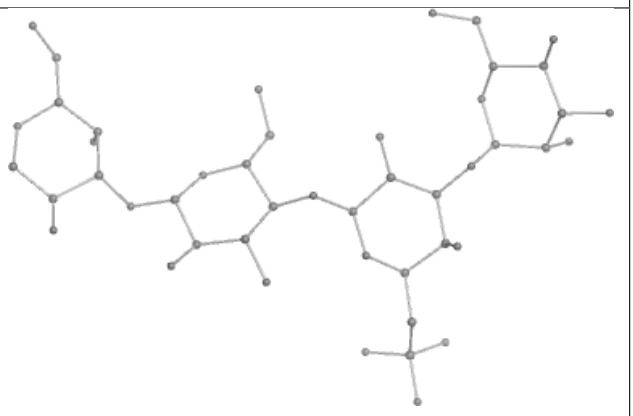
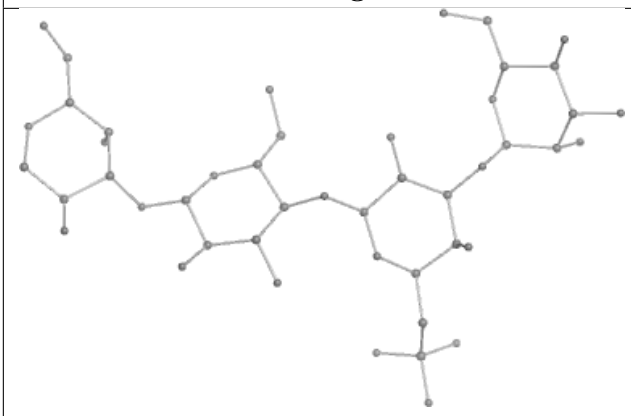


Bond angles



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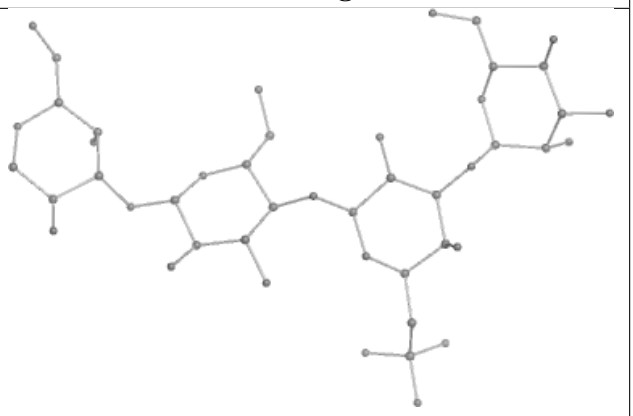
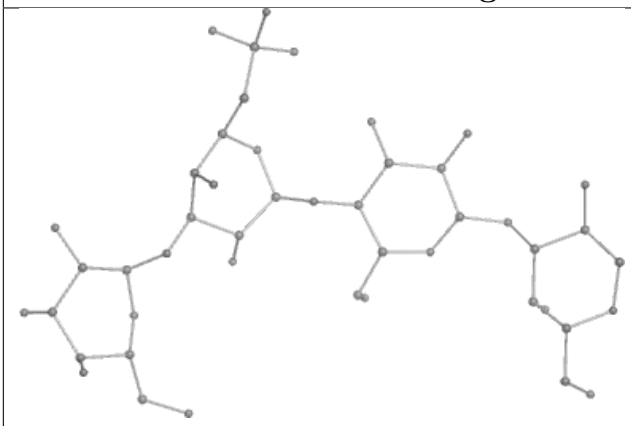


Rings

Oligosaccharide Chain mA



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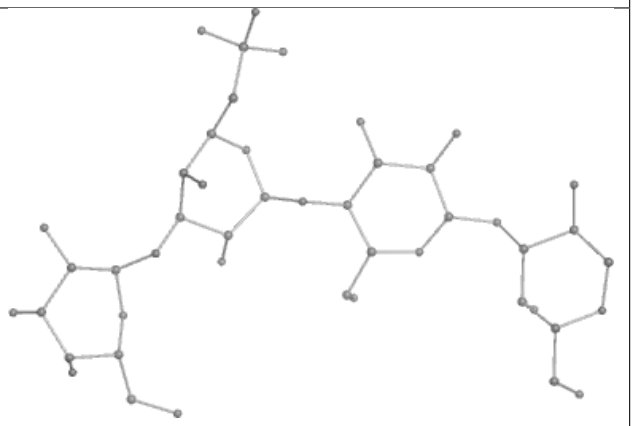
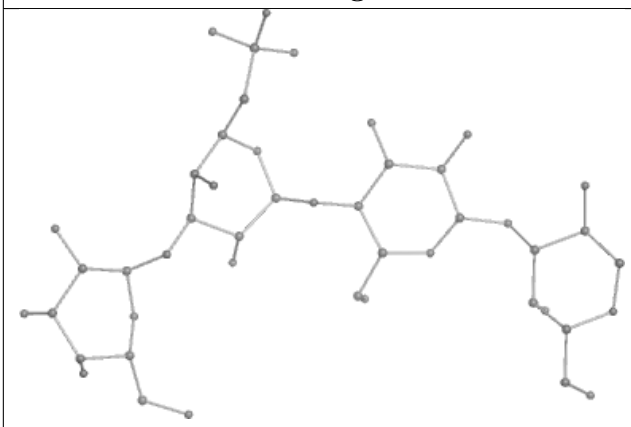
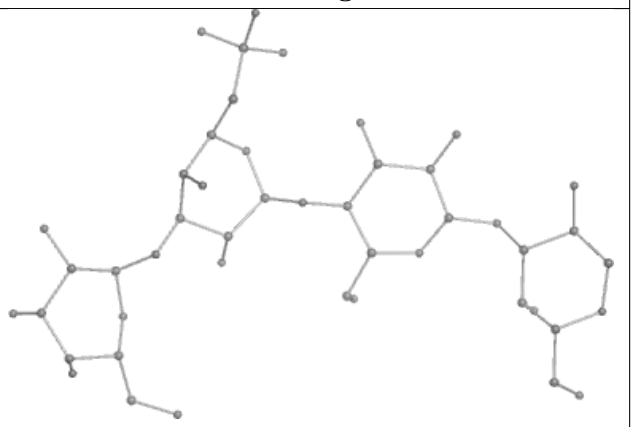


Bond angles

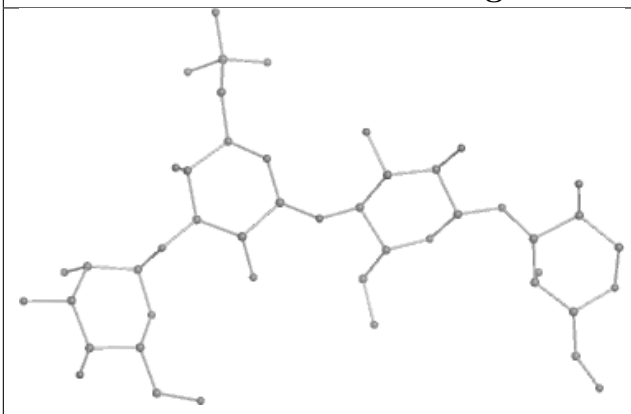


Torsions



Rings

Oligosaccharide Chain oA



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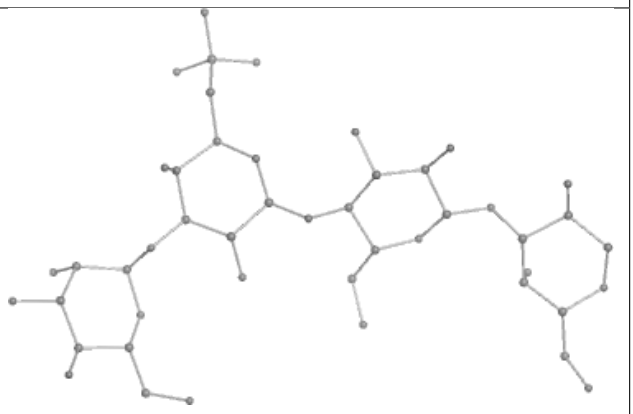
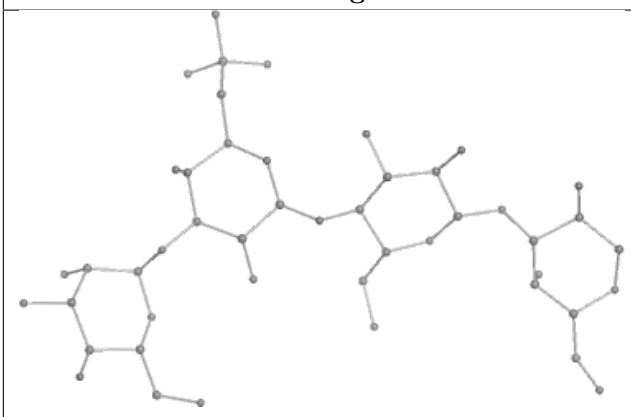


Bond angles



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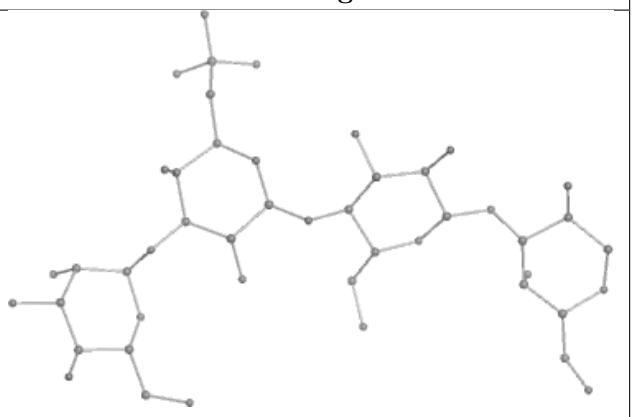
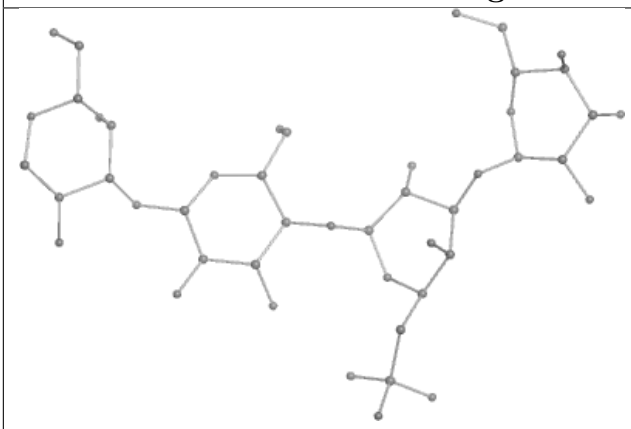


Rings

Oligosaccharide Chain tA



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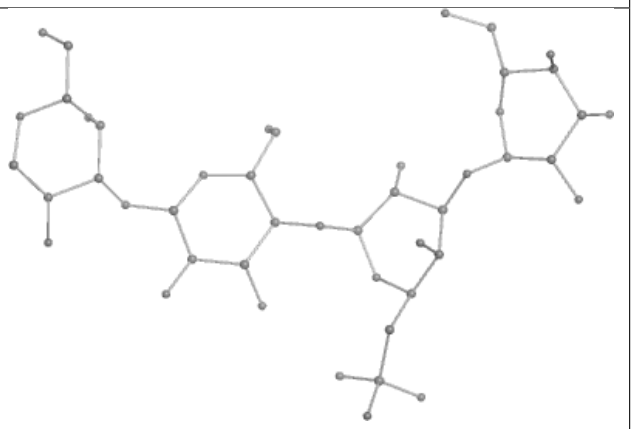
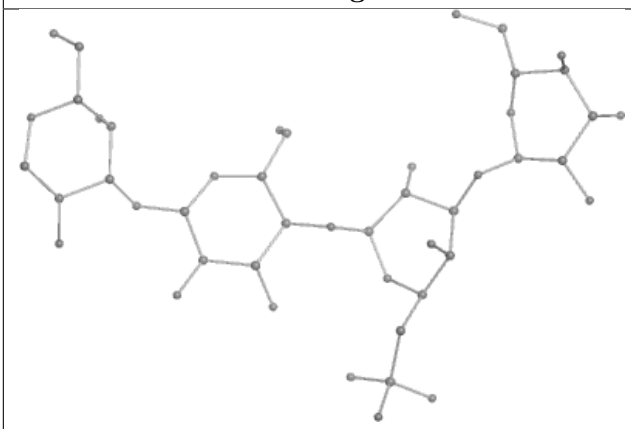


Bond angles



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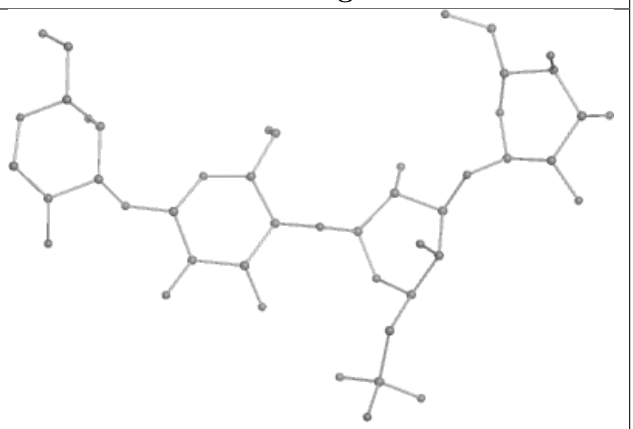
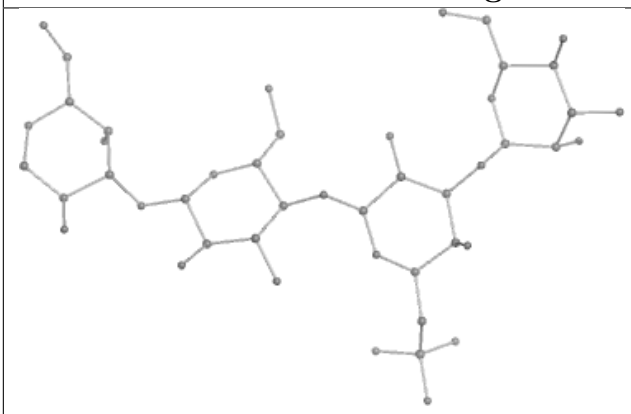


Rings

Oligosaccharide Chain vA



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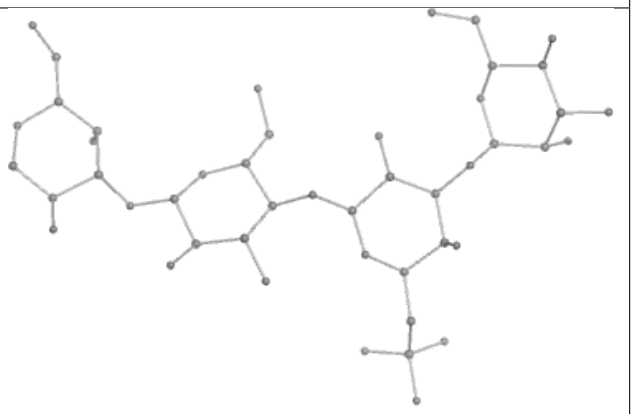
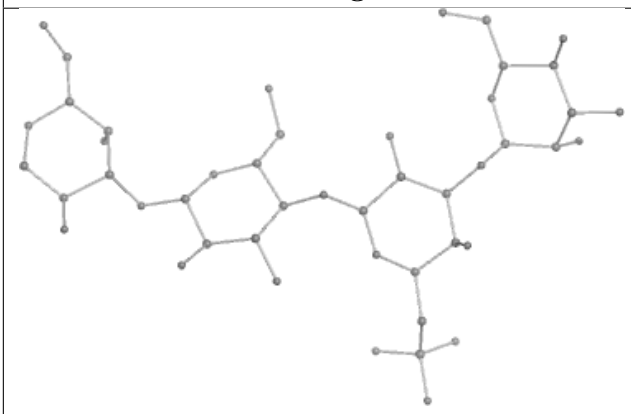


Bond angles



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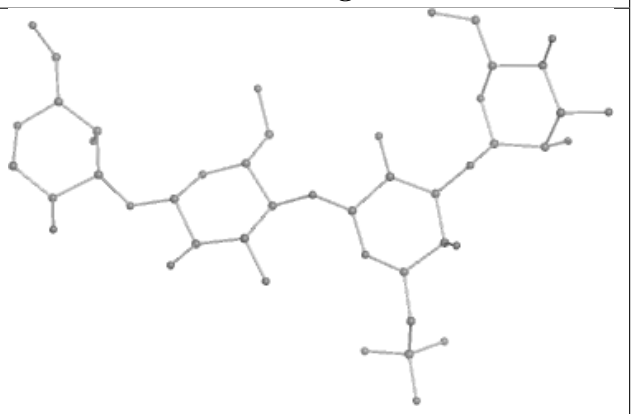
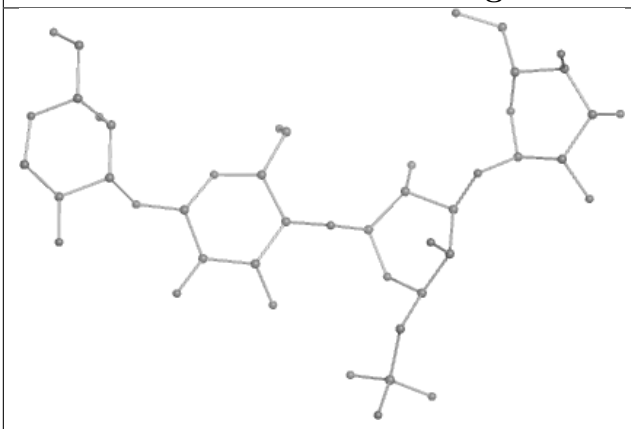


Rings

Oligosaccharide Chain 0A



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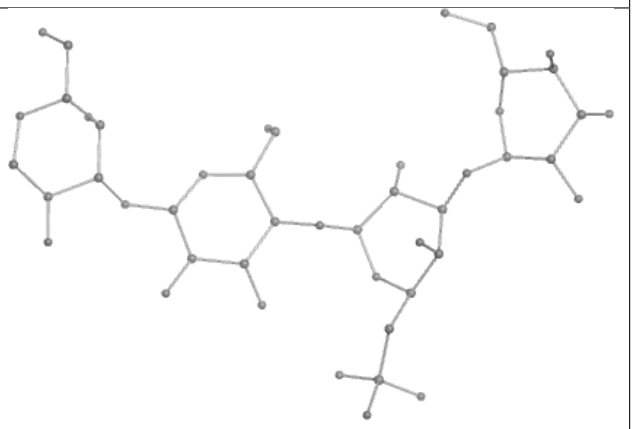

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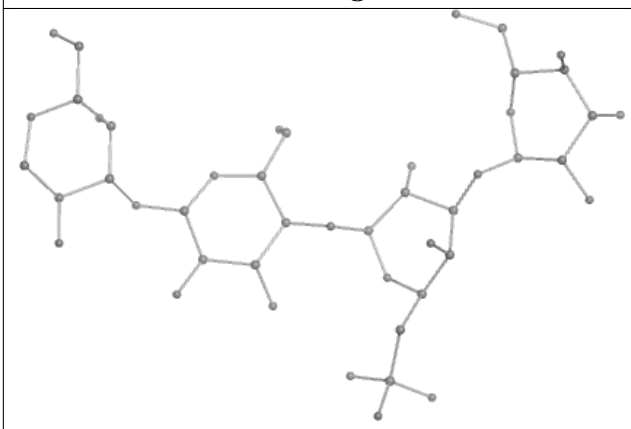

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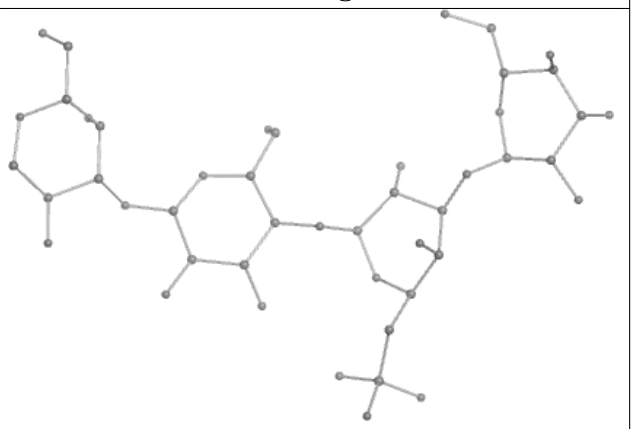
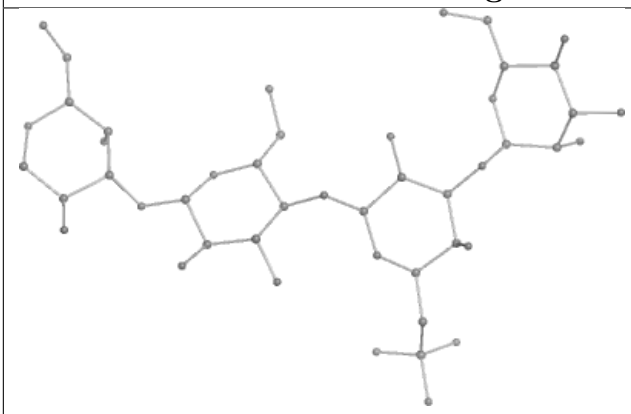


Rings

Oligosaccharide Chain 2A



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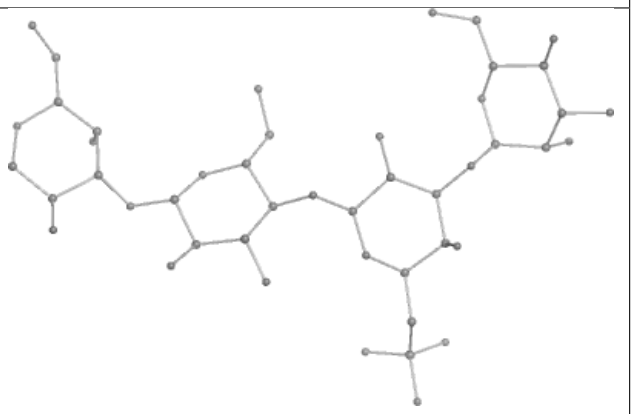
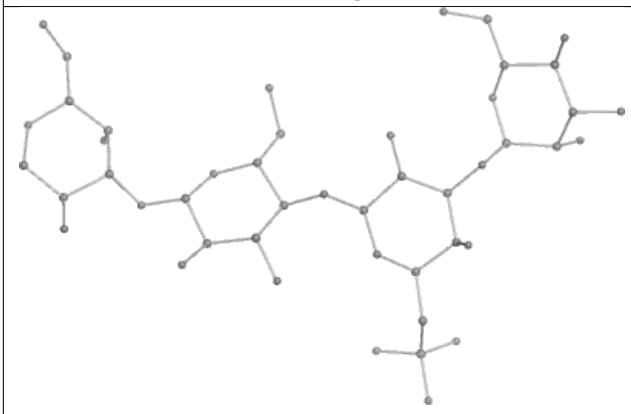


Bond angles



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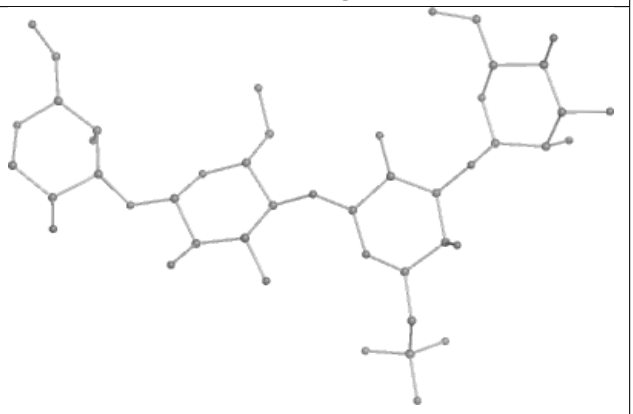
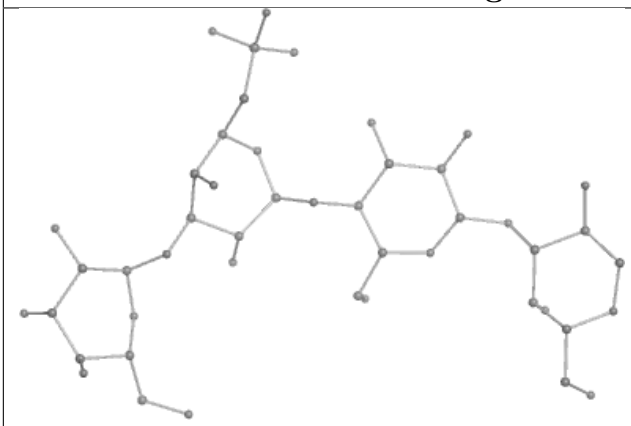


Rings

Oligosaccharide Chain 7A



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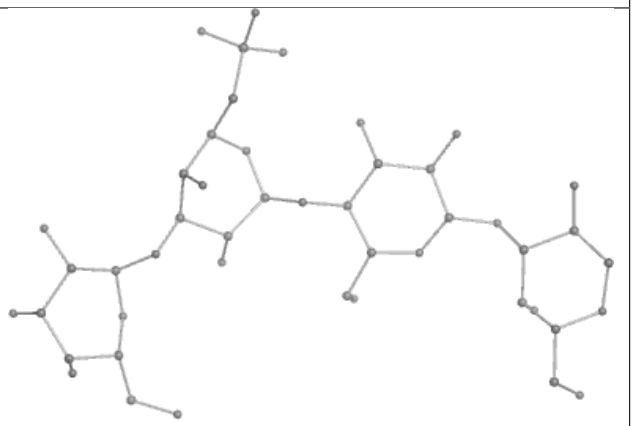

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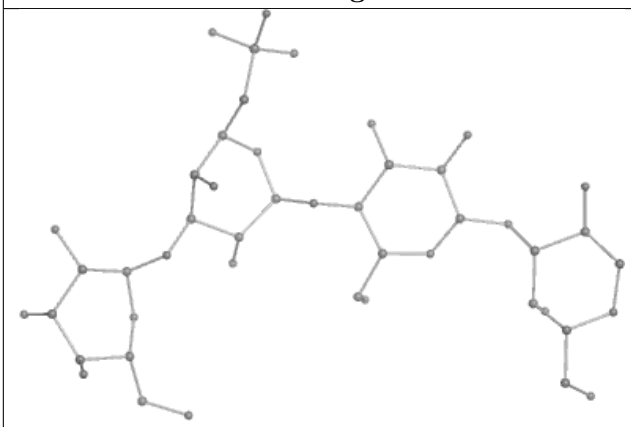
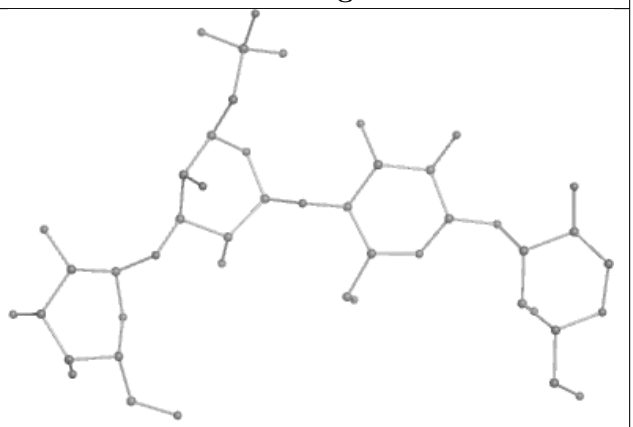
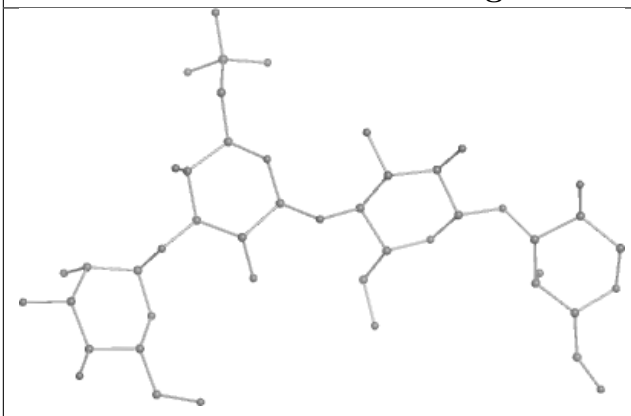


Torsions



Rings

Oligosaccharide Chain 9A



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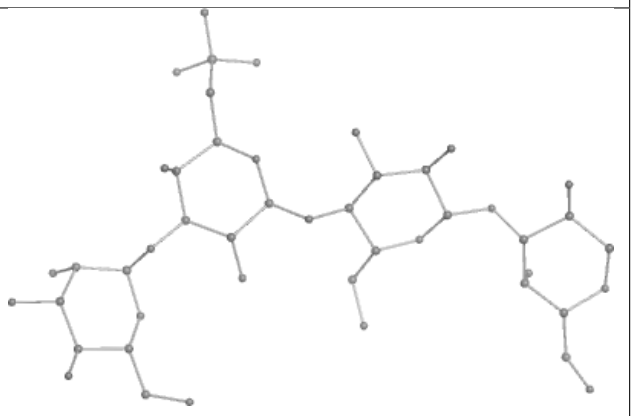
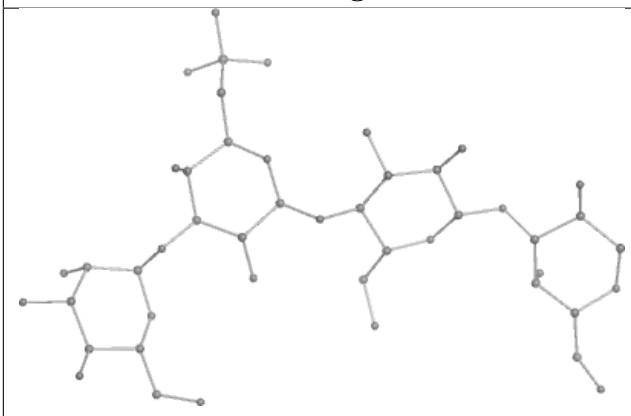
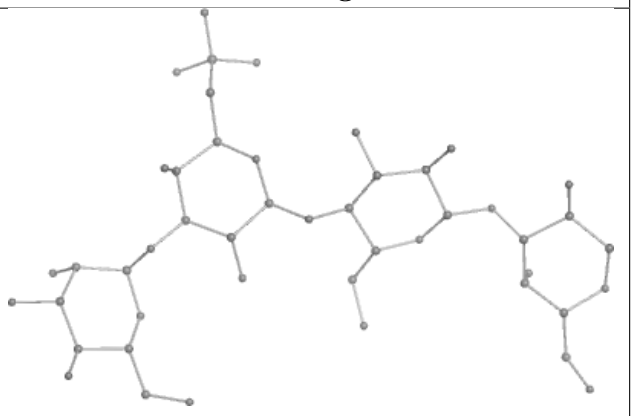


Bond angles

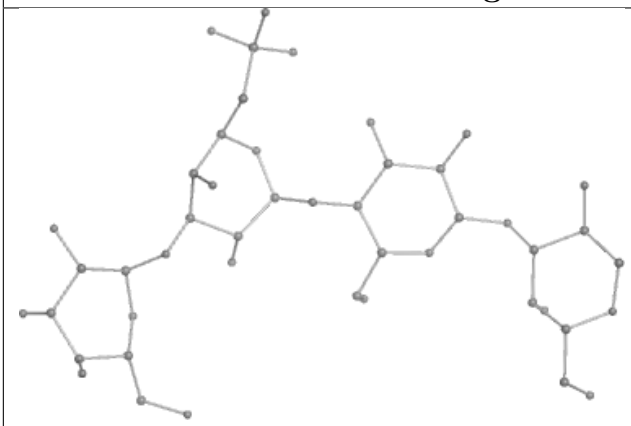


Torsions

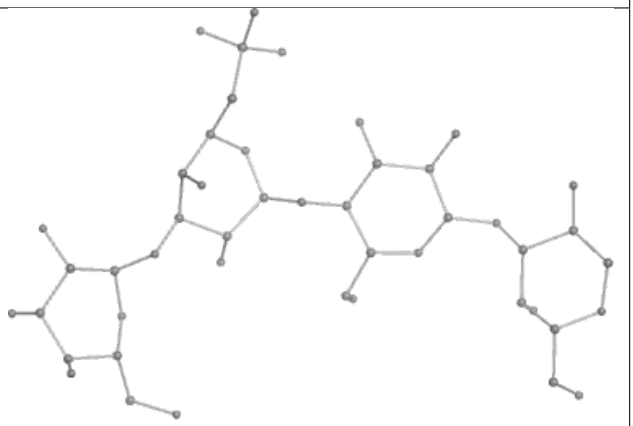


Rings

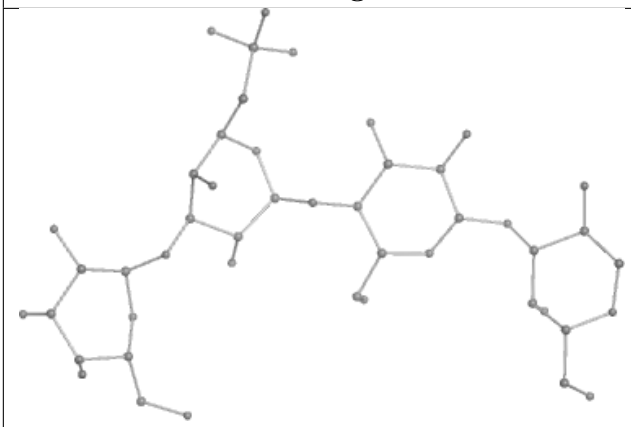
Oligosaccharide Chain EB



Bond lengths



Bond angles



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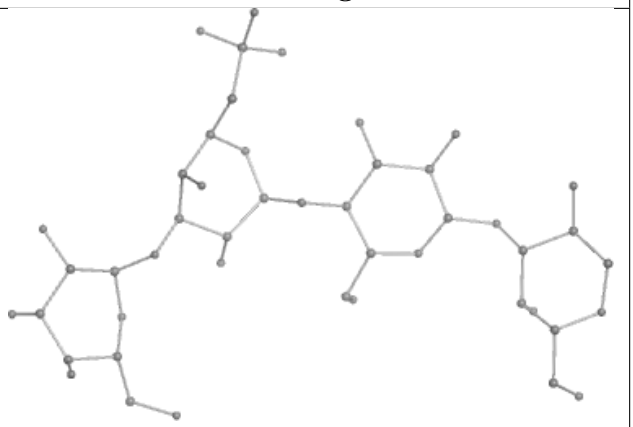
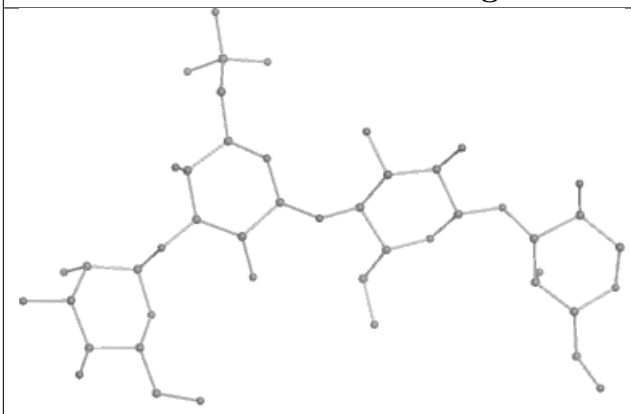
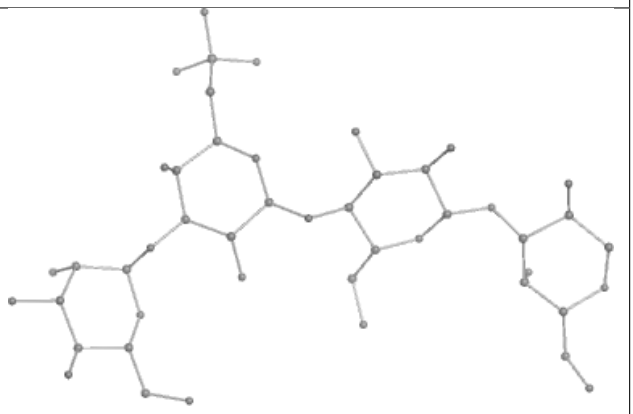


Rings

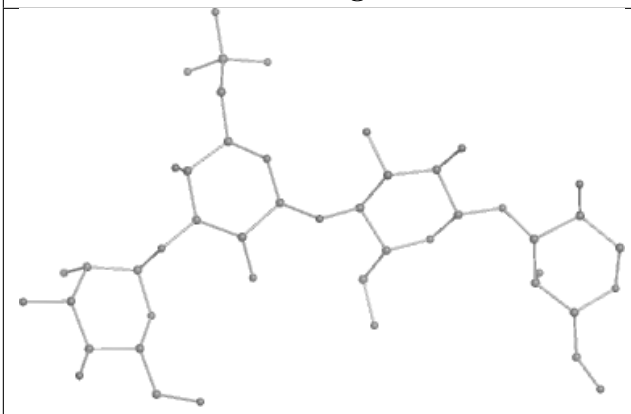
Oligosaccharide Chain GB



Bond lengths



Bond angles



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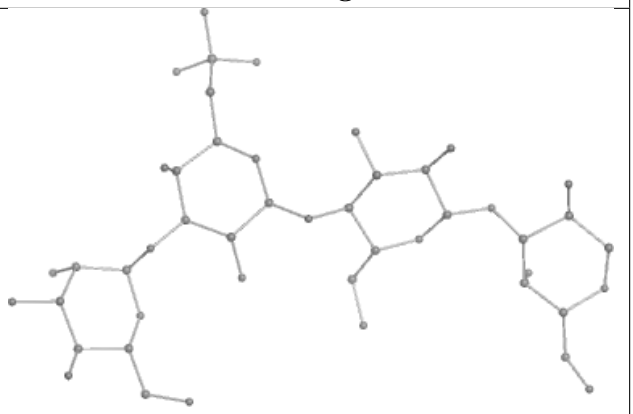
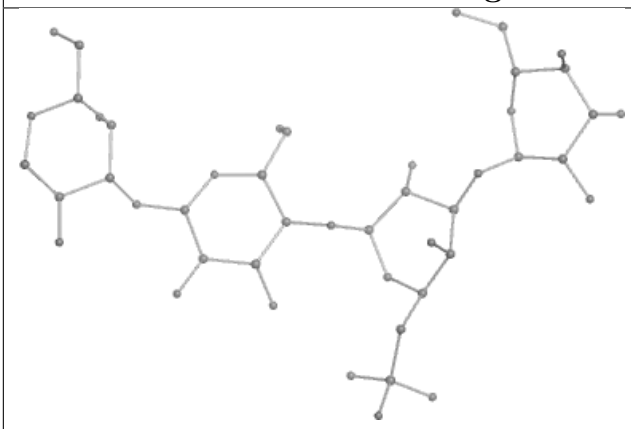
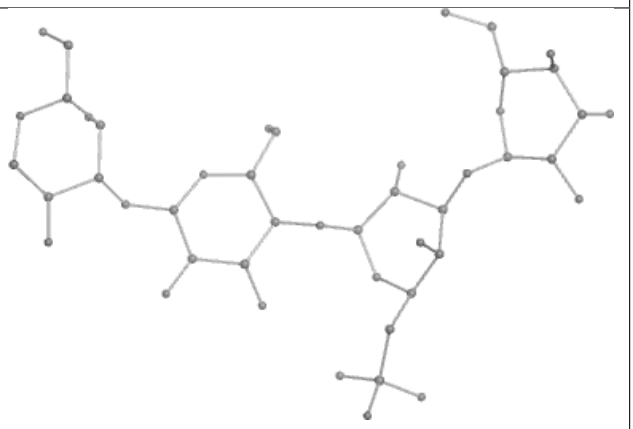


Rings

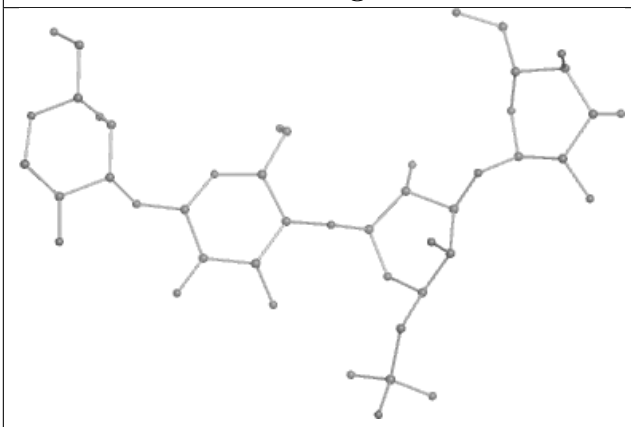
Oligosaccharide Chain LB



Bond lengths



Bond angles



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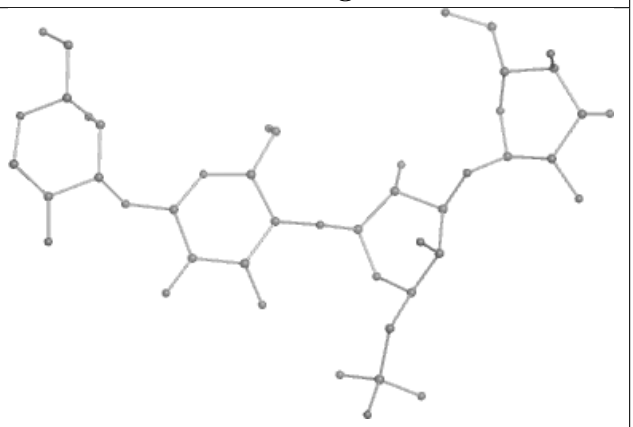
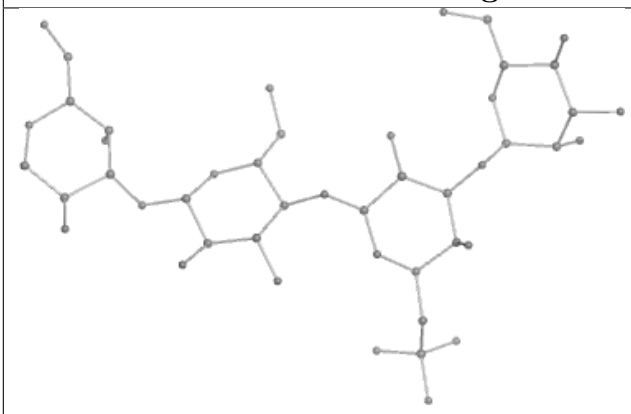
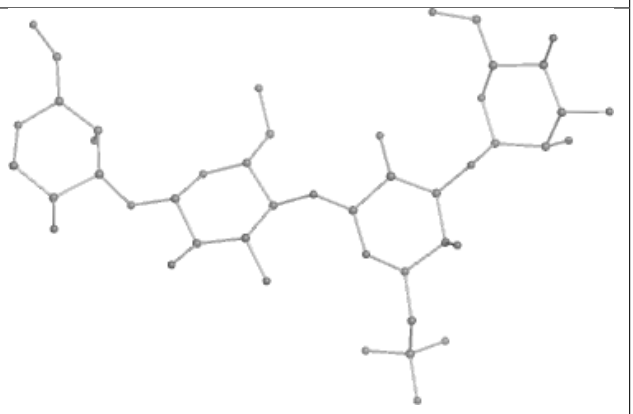


Rings

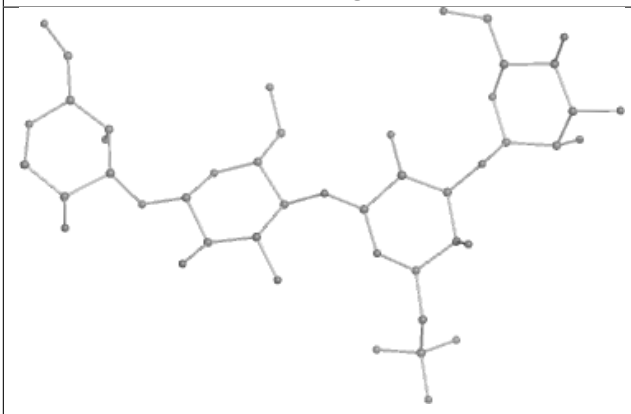
Oligosaccharide Chain NB



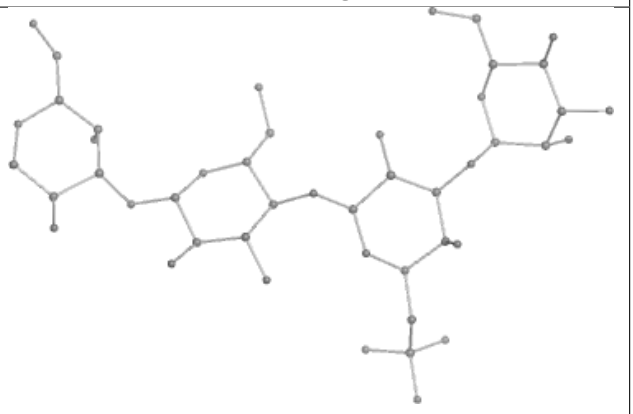
Bond lengths



Bond angles

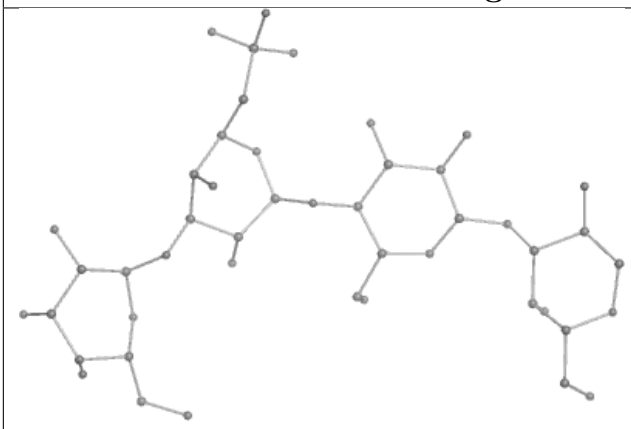


Torsions



Rings

Oligosaccharide Chain SB



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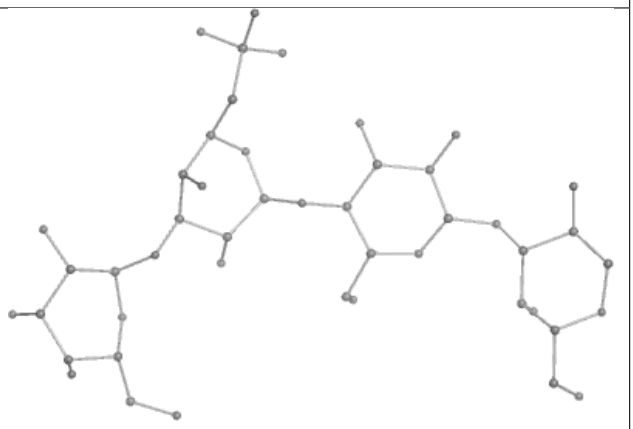
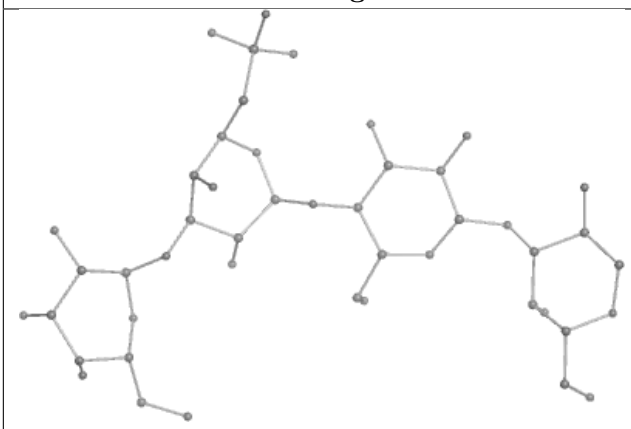


Bond angles



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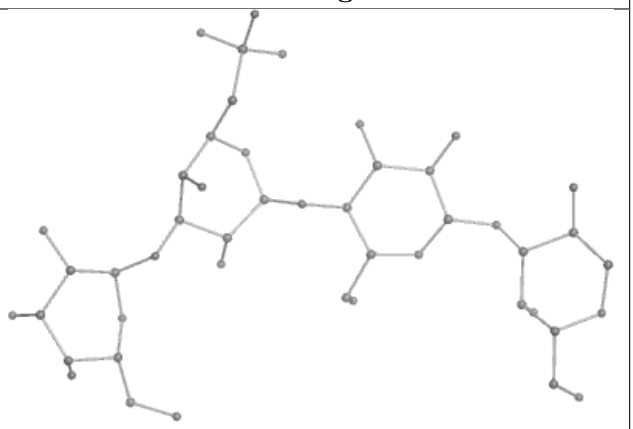
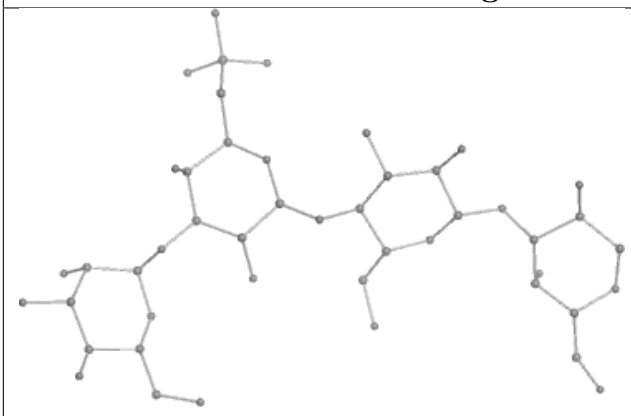


Rings

Oligosaccharide Chain UB



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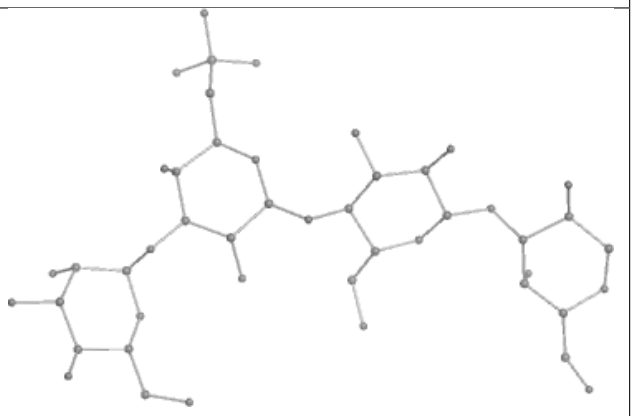
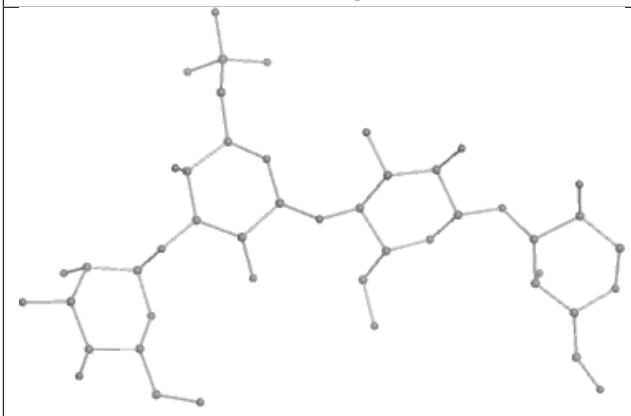


Bond angles



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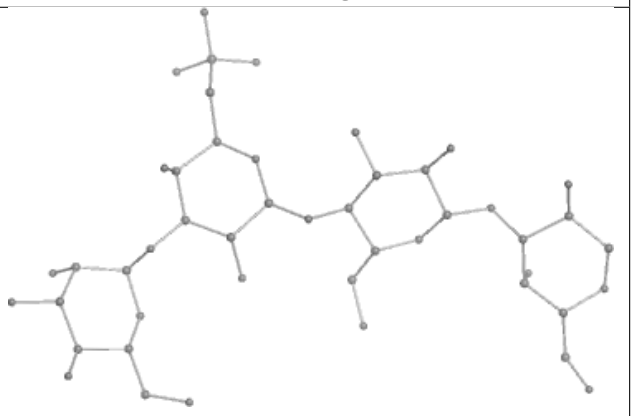
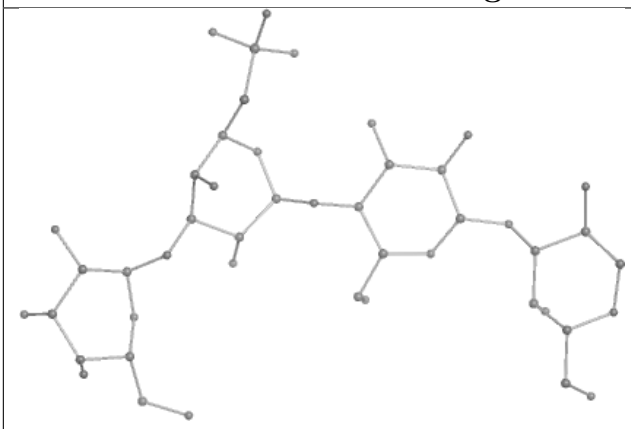


Rings

Oligosaccharide Chain ZB



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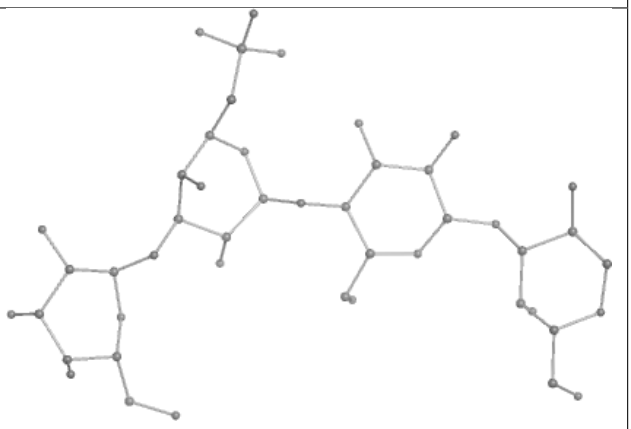
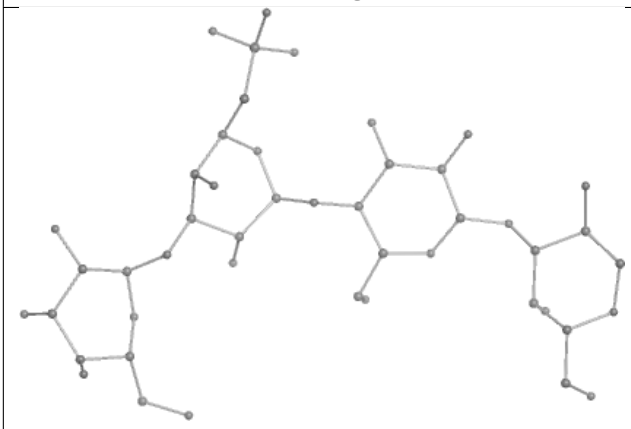


Bond angles



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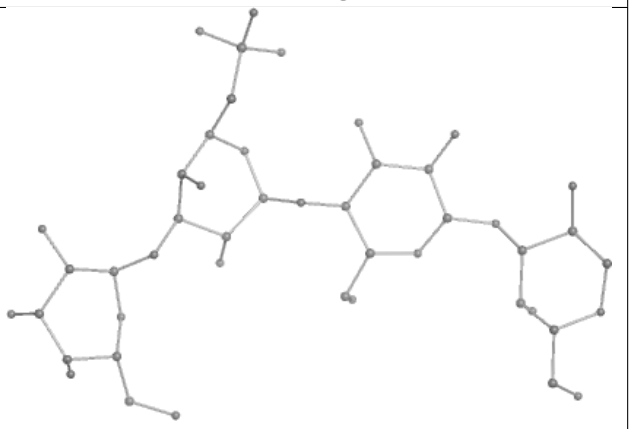
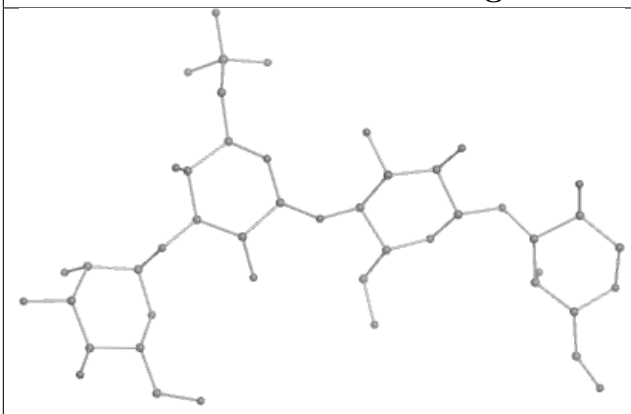


Rings

Oligosaccharide Chain bB



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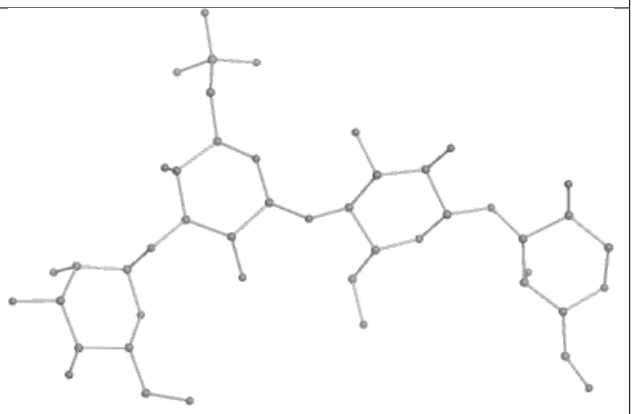
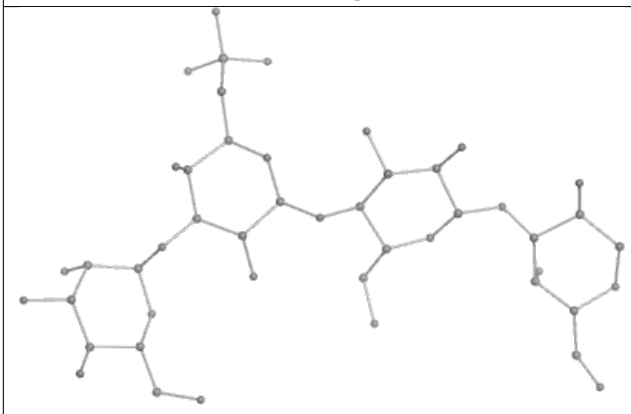


Bond angles



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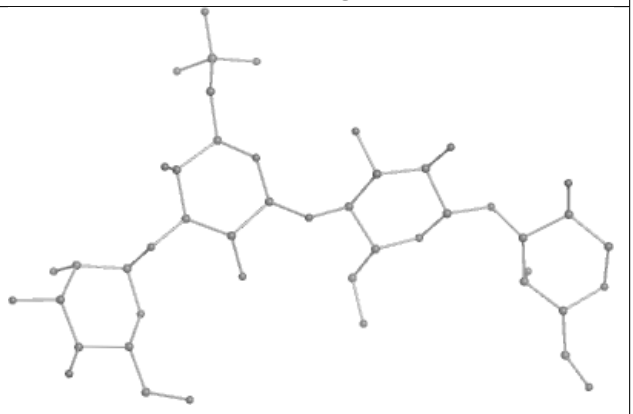
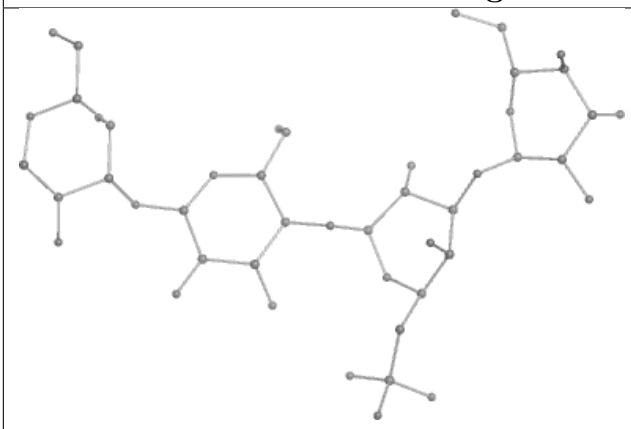


Rings

Oligosaccharide Chain gB



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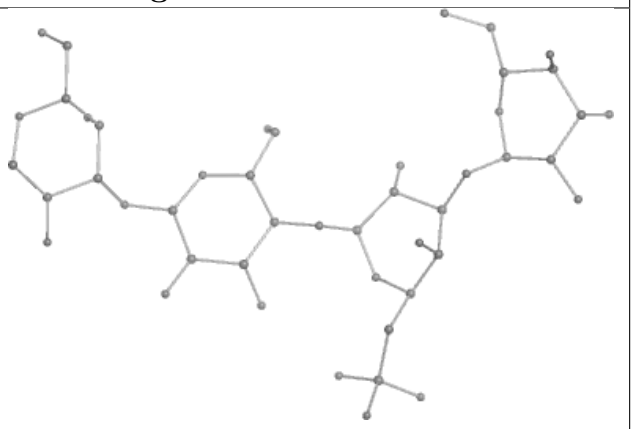
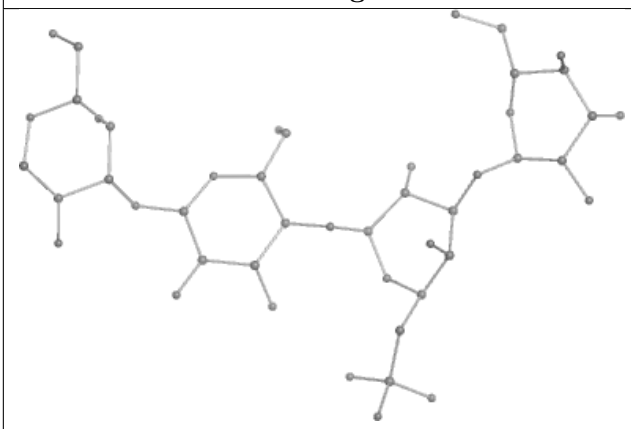


Bond angles



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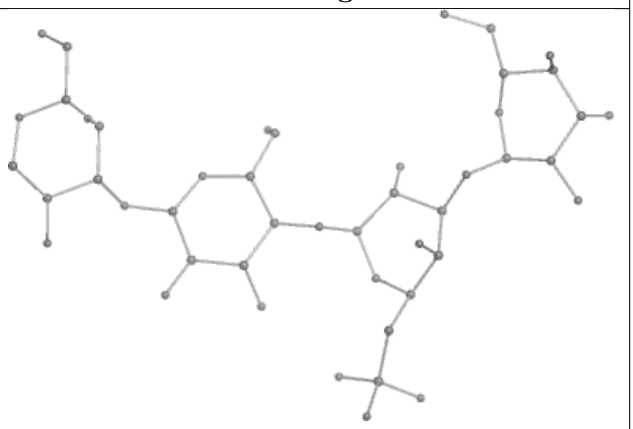
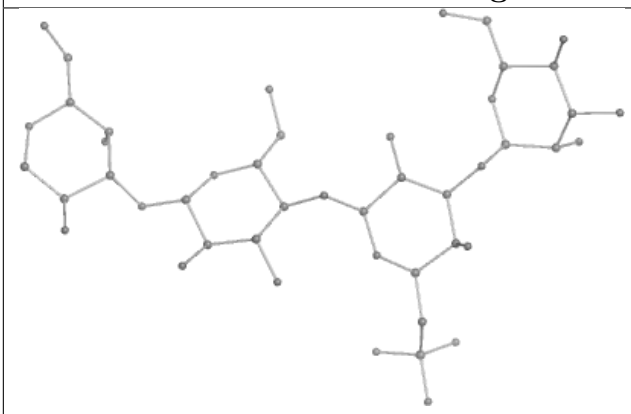


Rings

Oligosaccharide Chain iB



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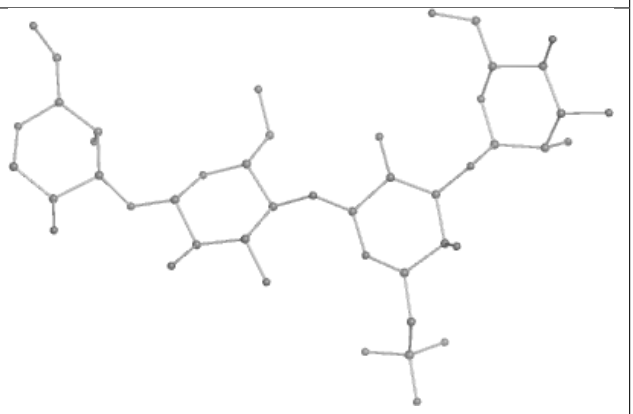

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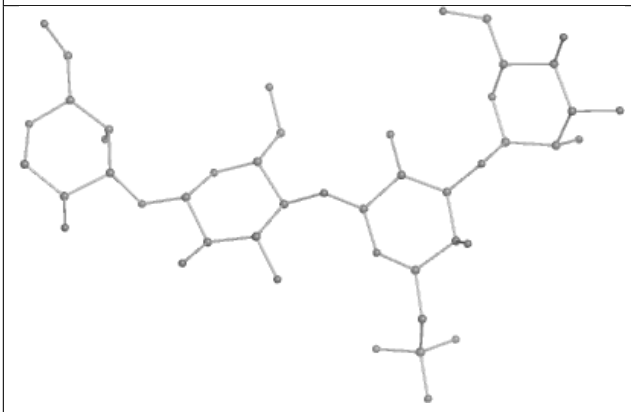

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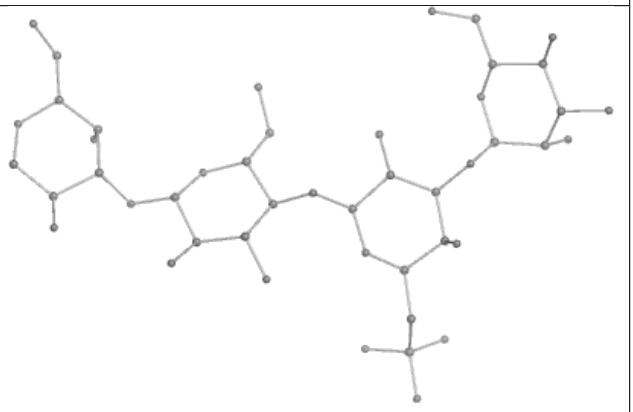
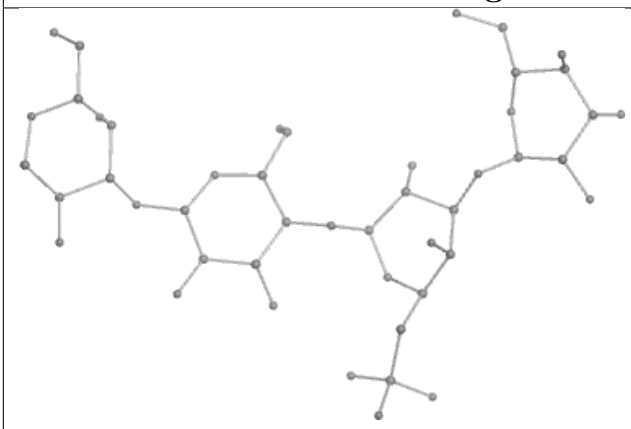


Rings

Oligosaccharide Chain nB



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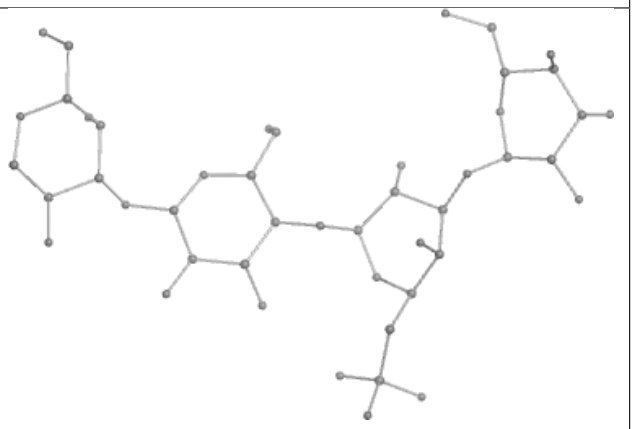
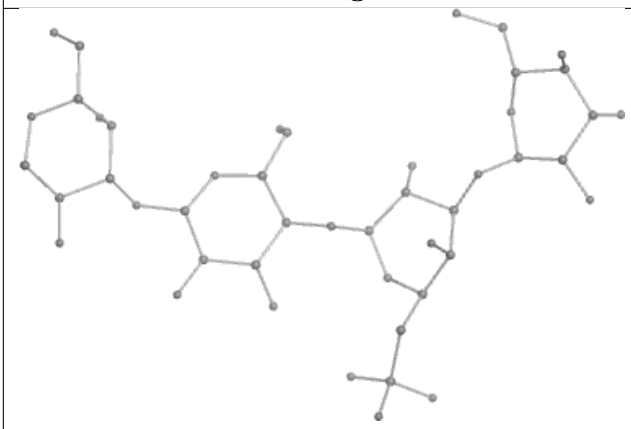


Bond angles



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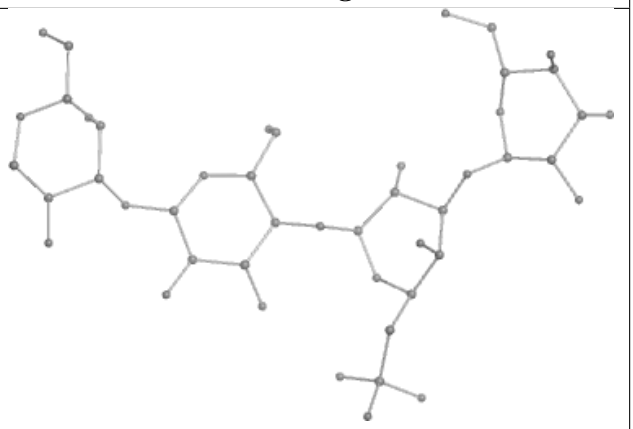
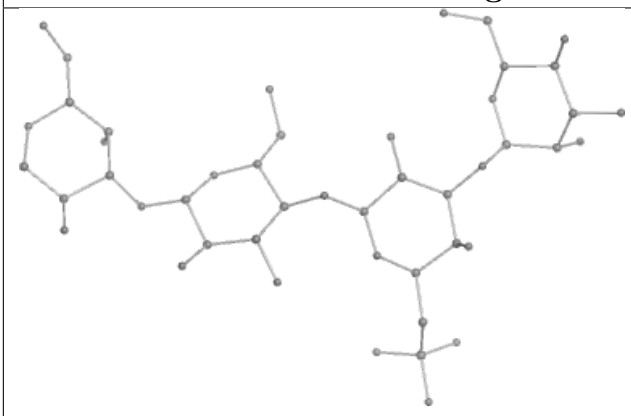


Rings

Oligosaccharide Chain pB



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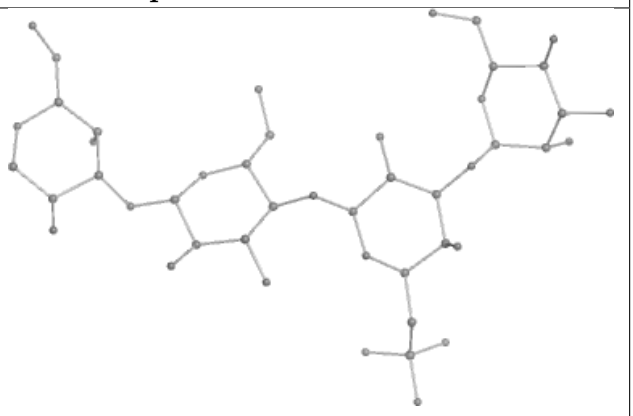
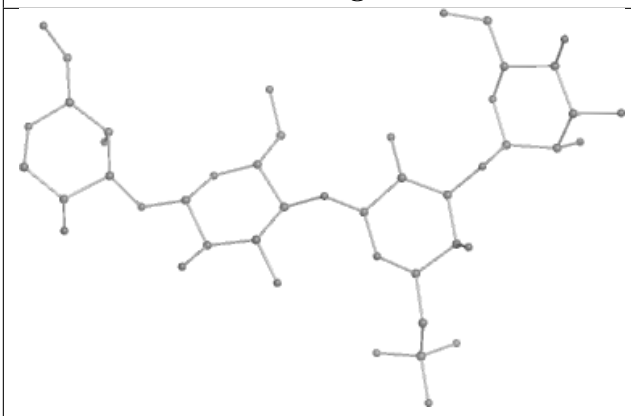


Bond angles



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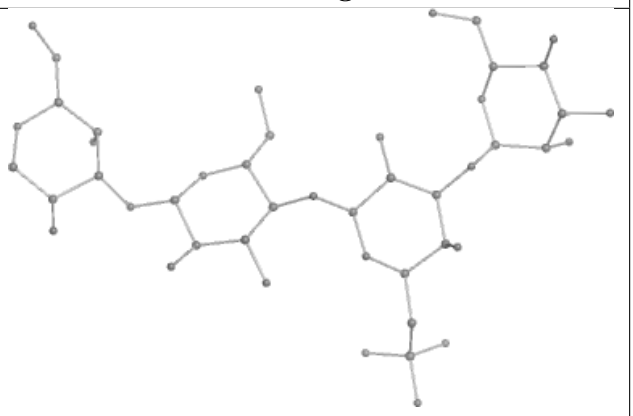
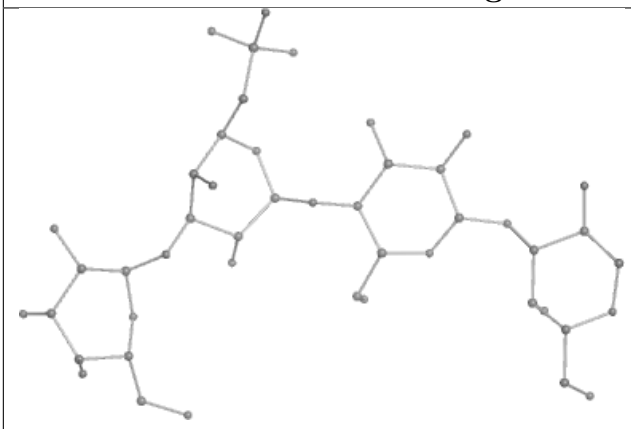


Rings

Oligosaccharide Chain uB



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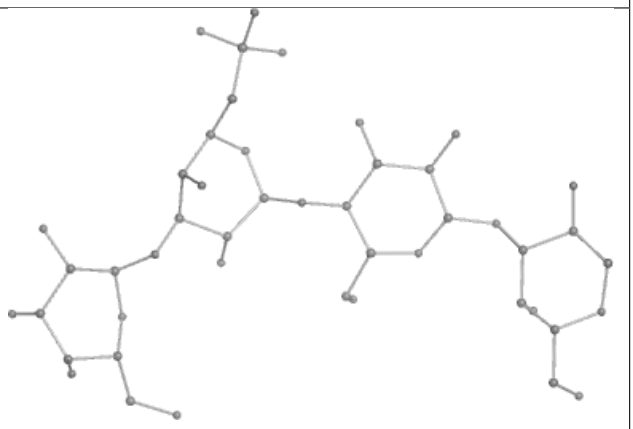

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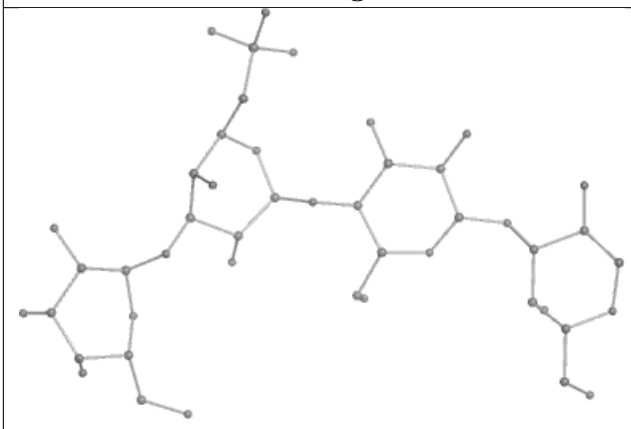
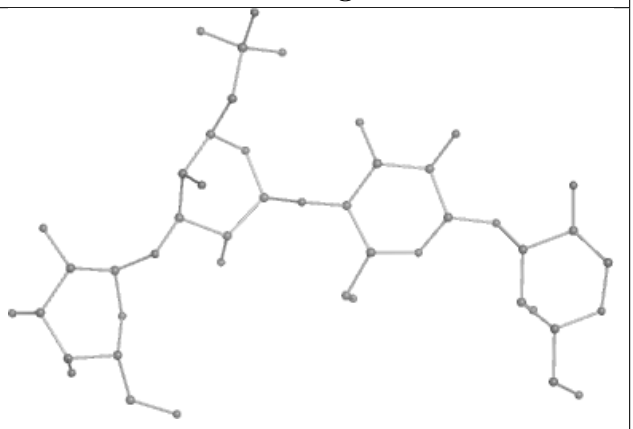
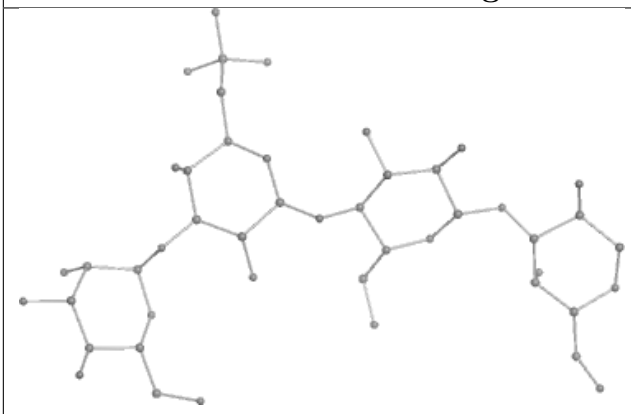


Torsions

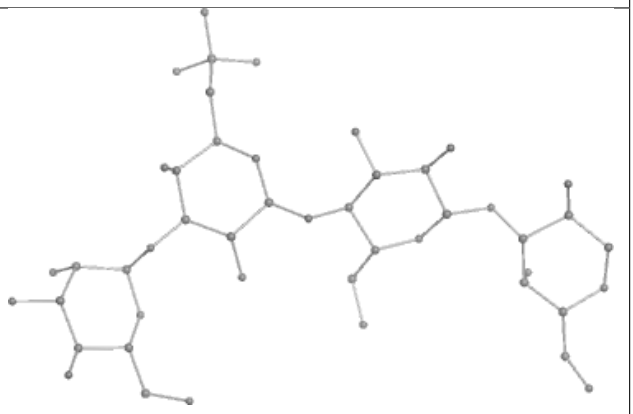


Rings

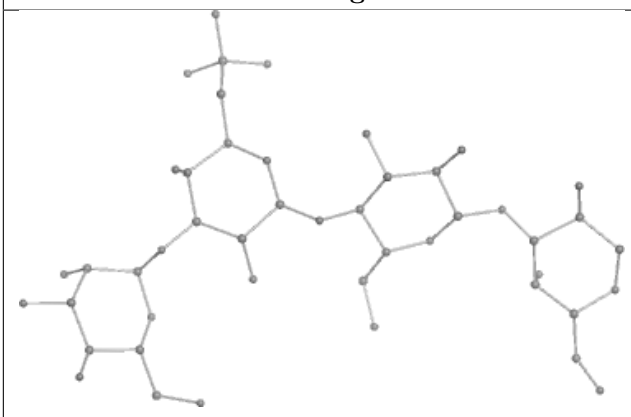
Oligosaccharide Chain wB



Bond lengths



Bond angles



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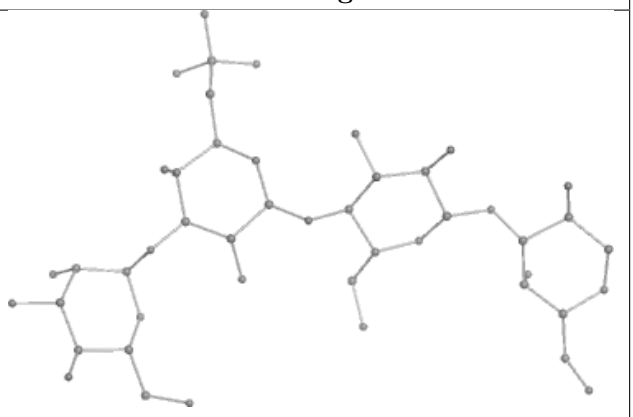
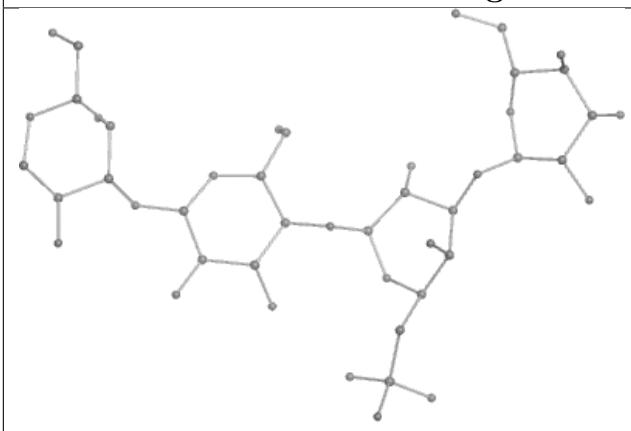


Rings

Oligosaccharide Chain 1B



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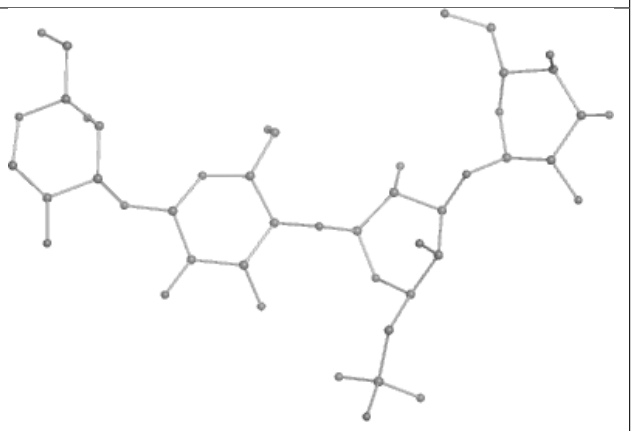
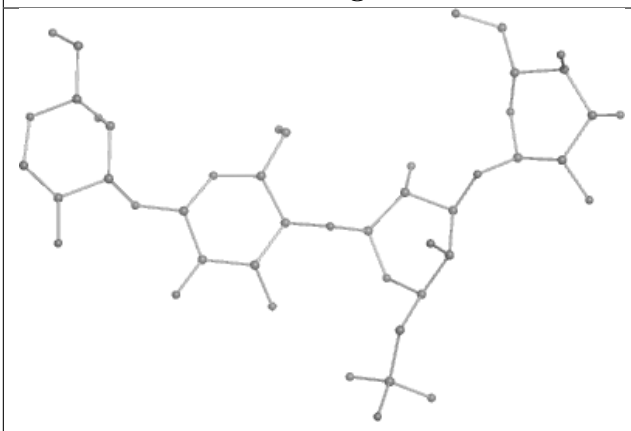


Bond angles



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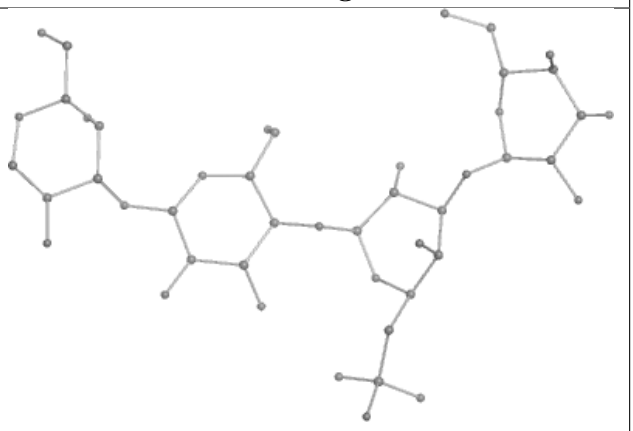
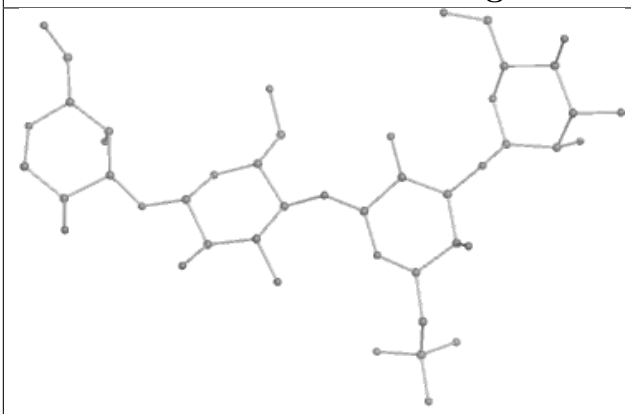


Rings

Oligosaccharide Chain 3B



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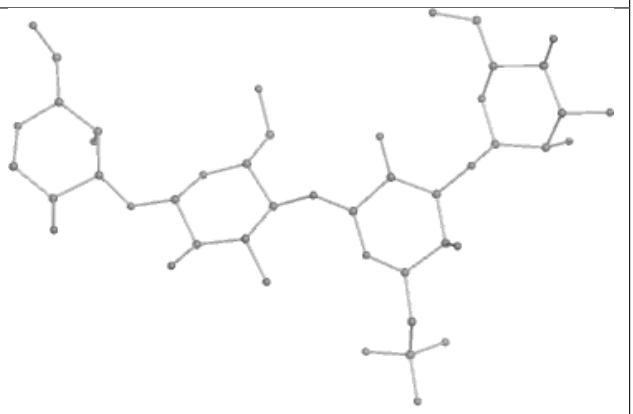
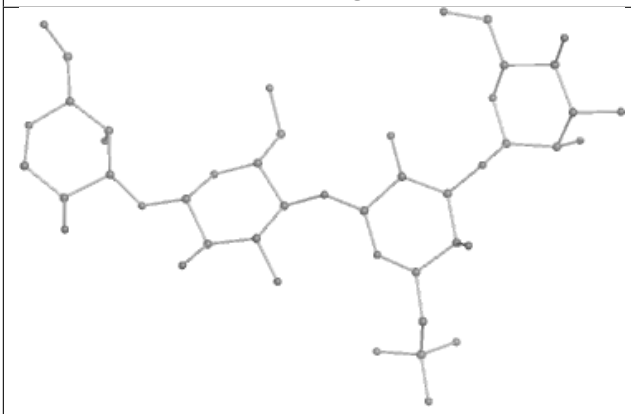
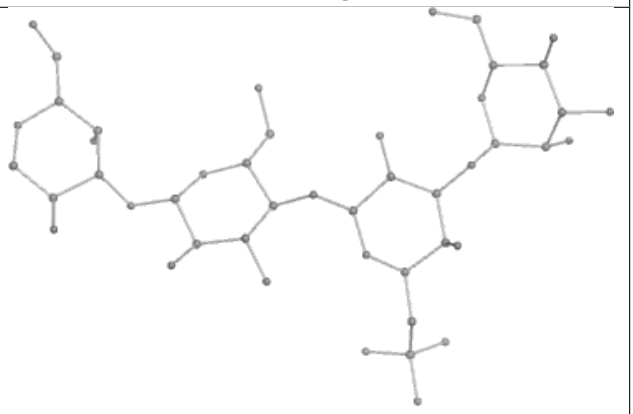


Bond angles

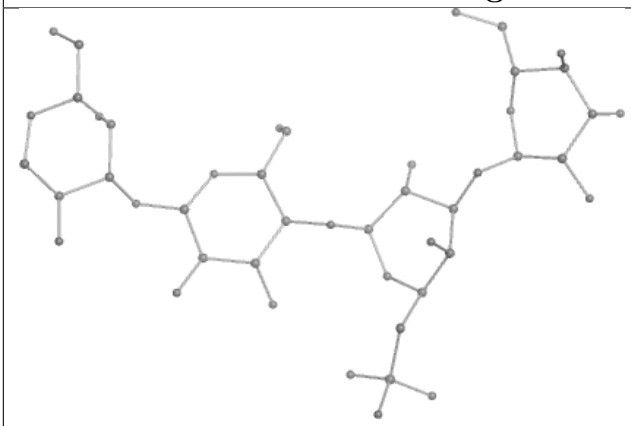


Torsions

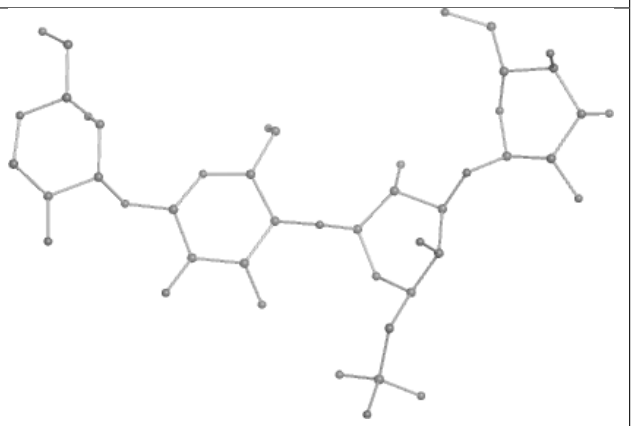


Rings

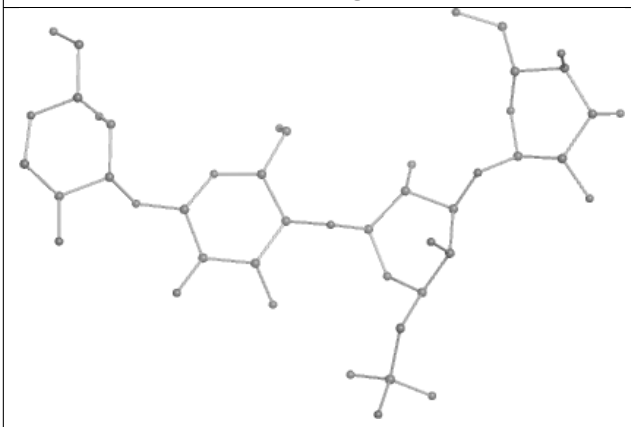
Oligosaccharide Chain 8B



Bond lengths



Bond angles



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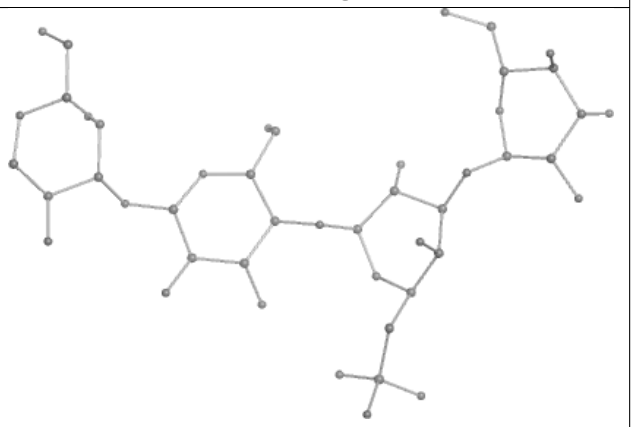
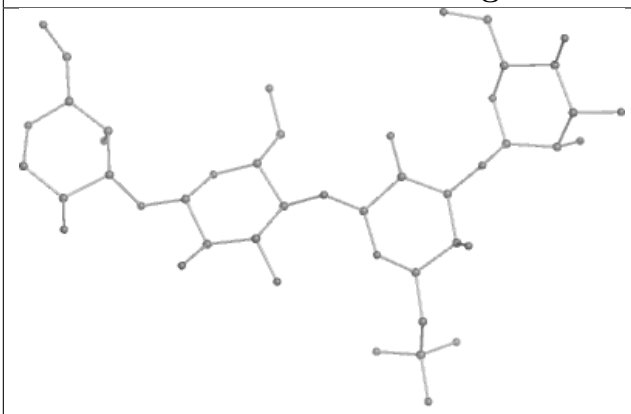
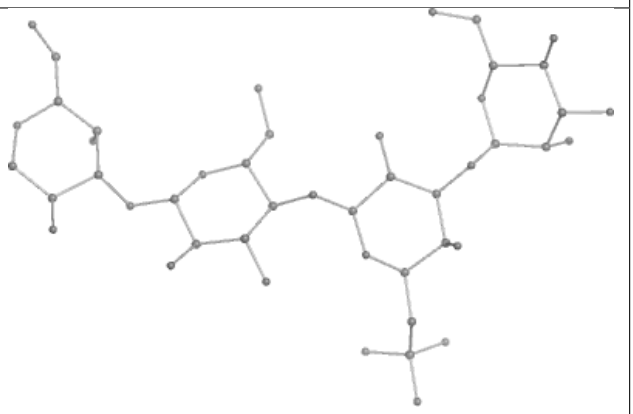


Rings

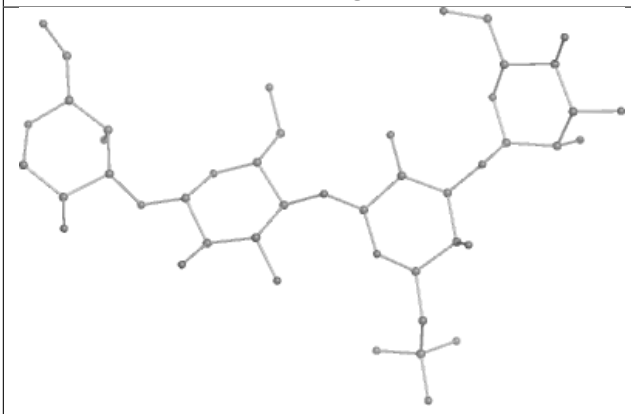
Oligosaccharide Chain AC



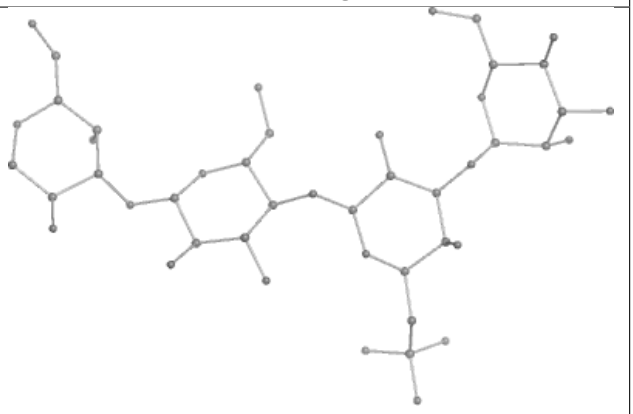
Bond lengths



Bond angles

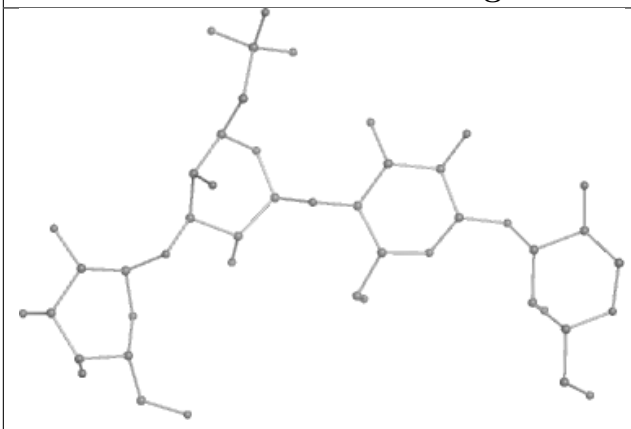


Torsions



Rings

Oligosaccharide Chain FC



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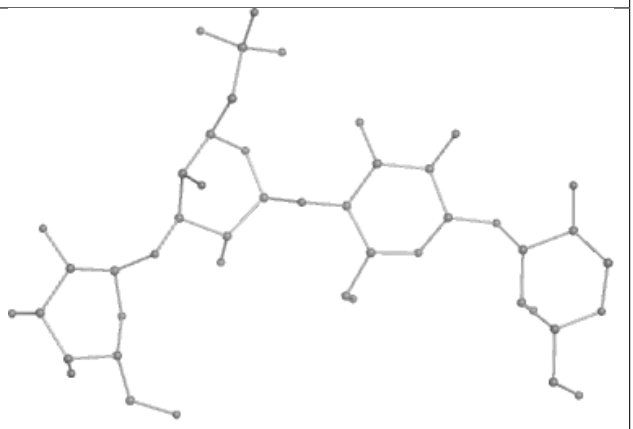
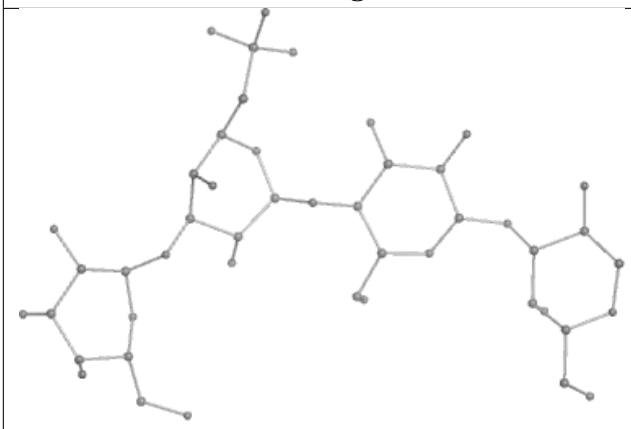


Bond angles



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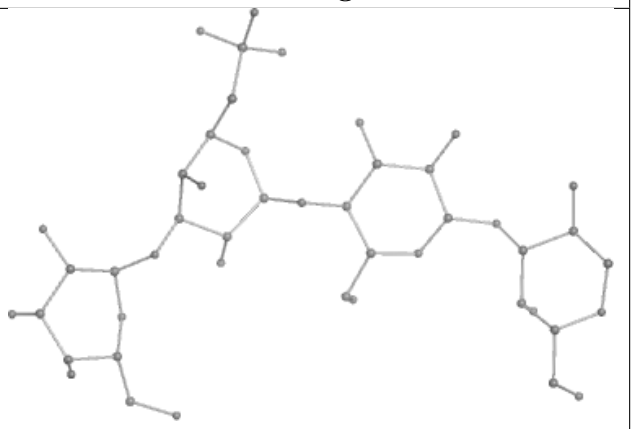
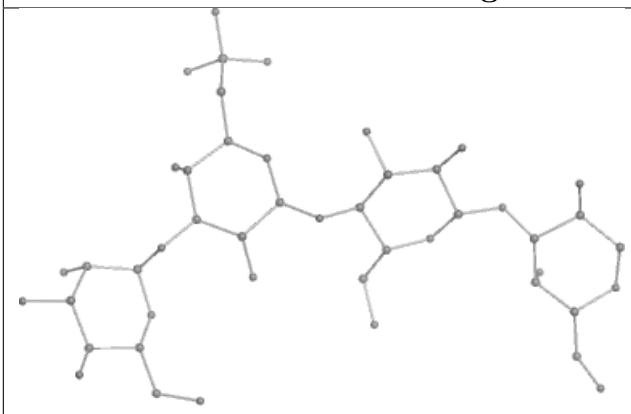


Rings

Oligosaccharide Chain HC



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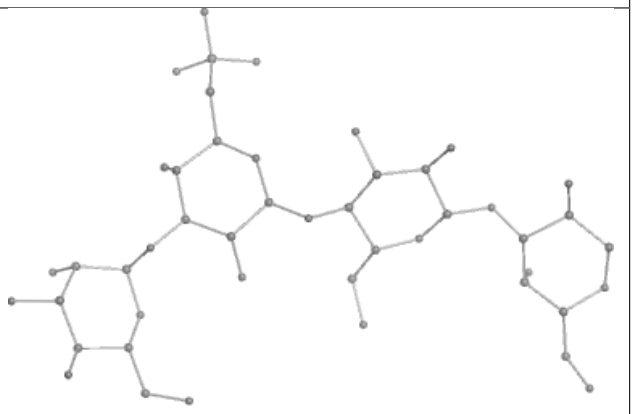
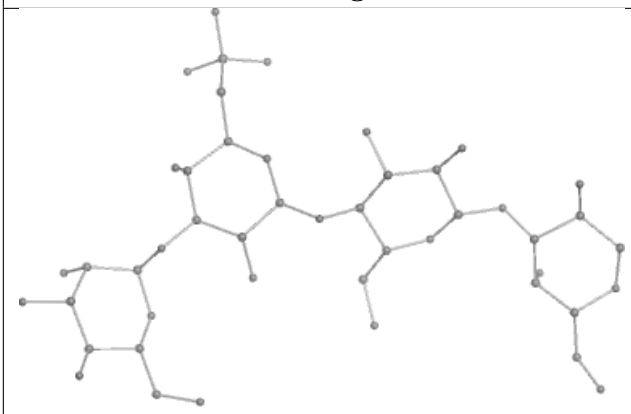


Bond angles



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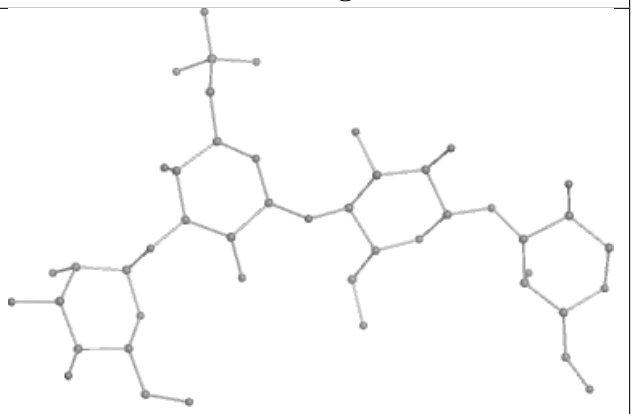
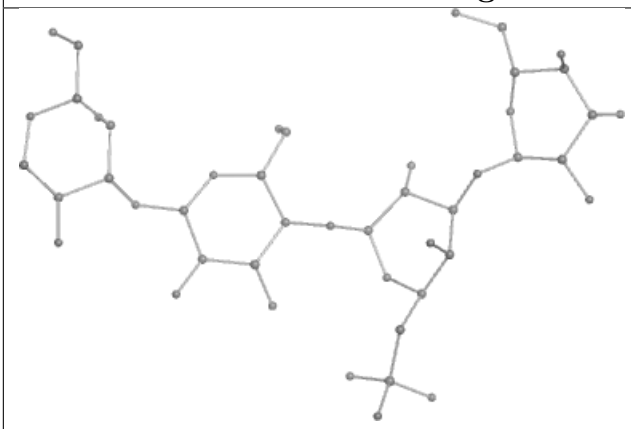


Rings

Oligosaccharide Chain MC



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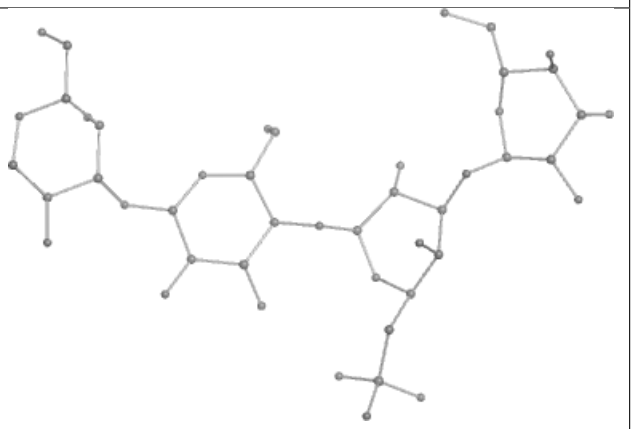
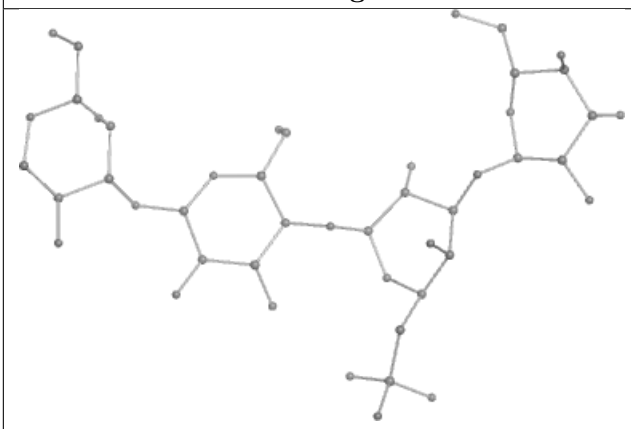


Bond angles



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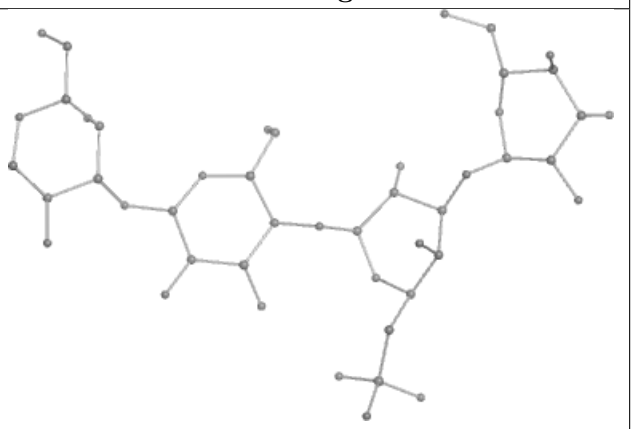
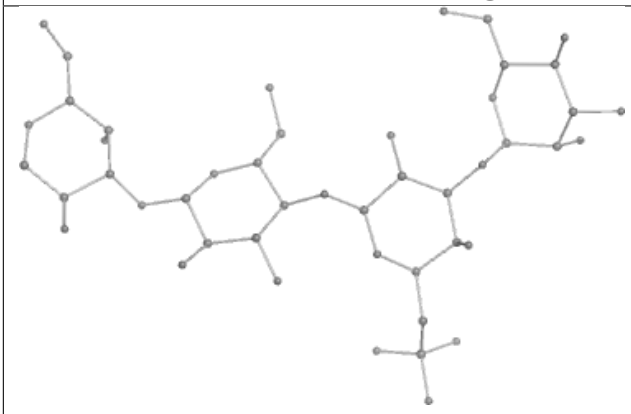


Rings

Oligosaccharide Chain OC



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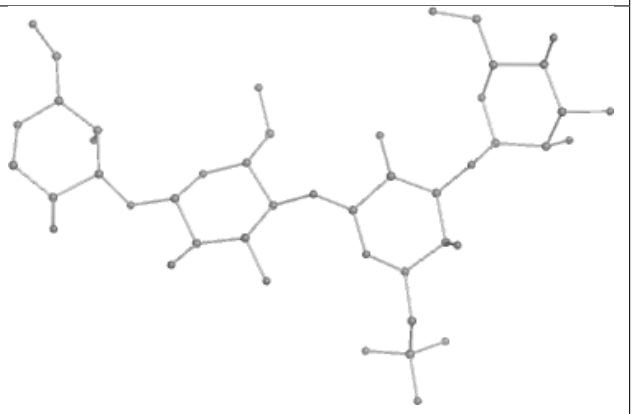
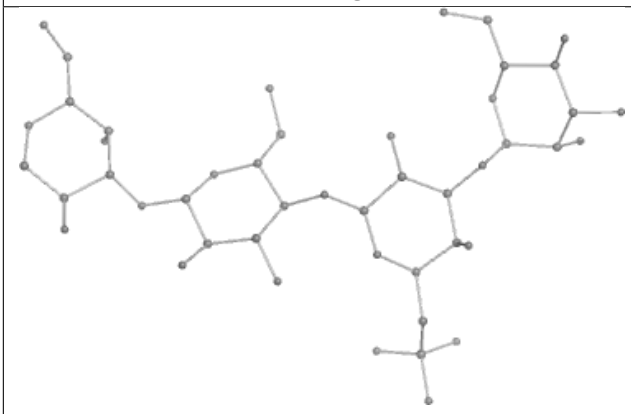


Bond angles



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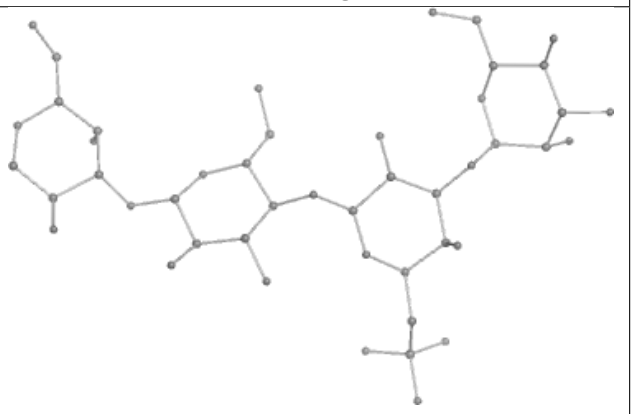
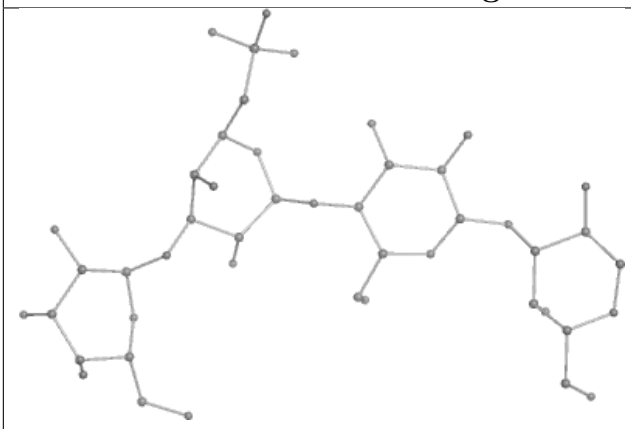


Rings

Oligosaccharide Chain TC



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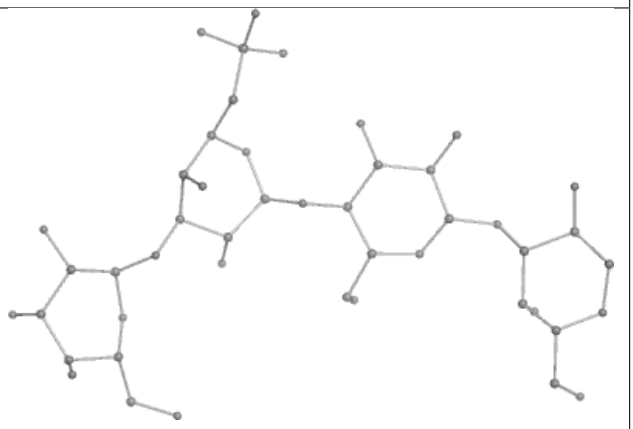
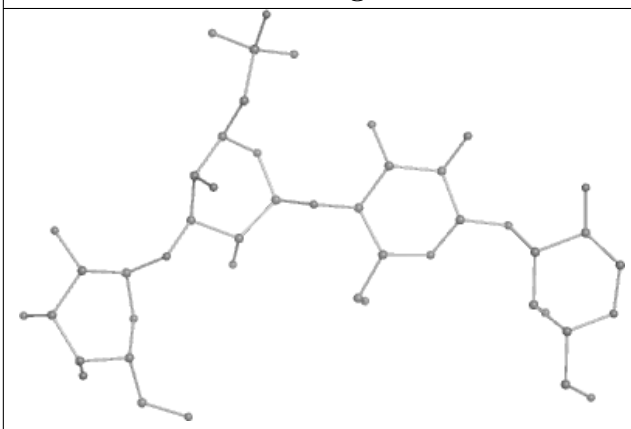


Bond angles



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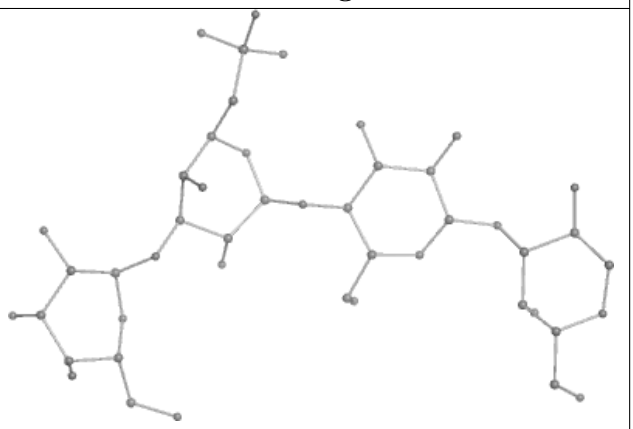
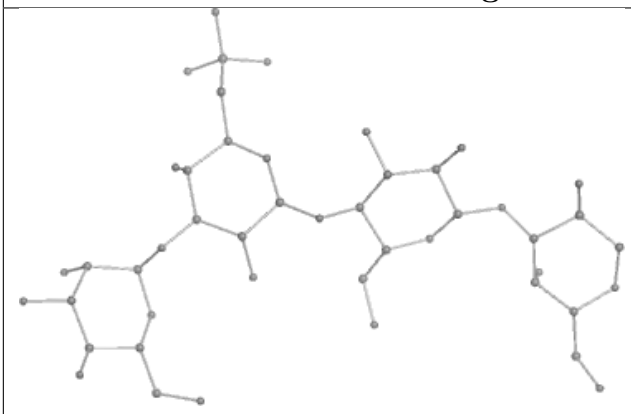


Rings

Oligosaccharide Chain VC



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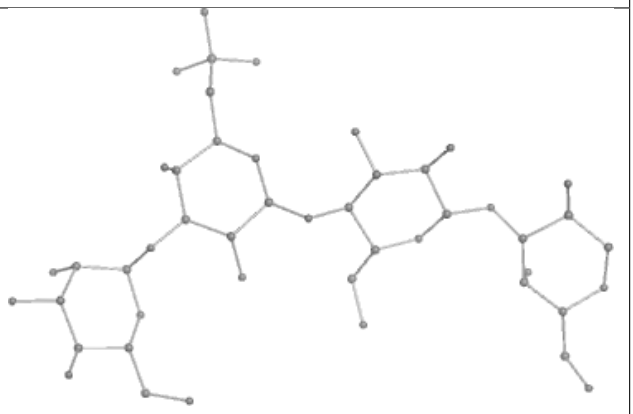
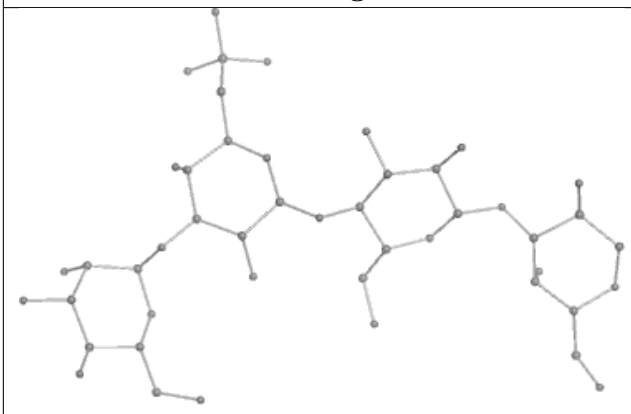


Bond angles



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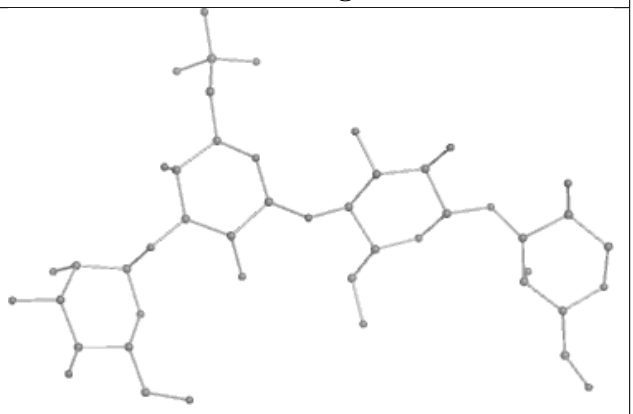
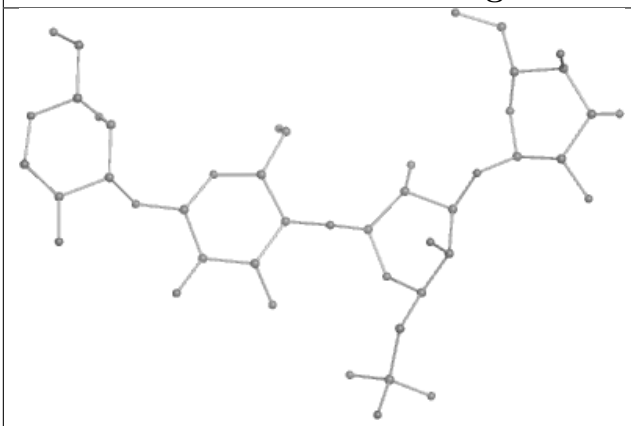


Rings

Oligosaccharide Chain aC



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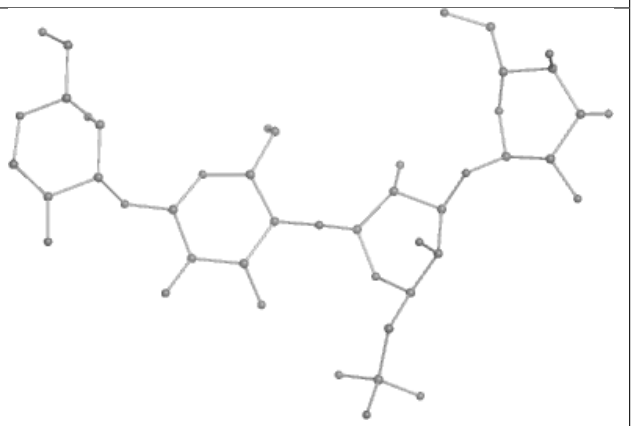

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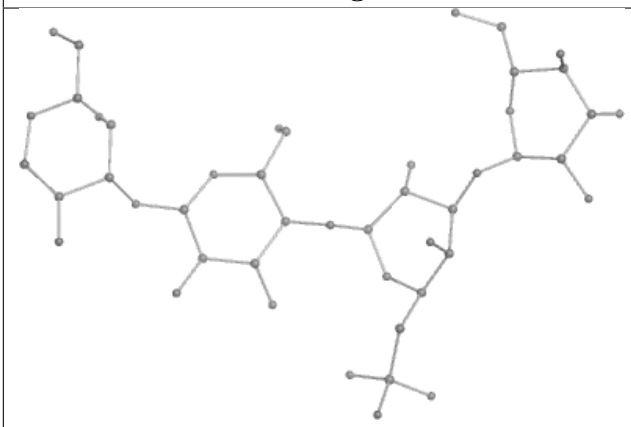

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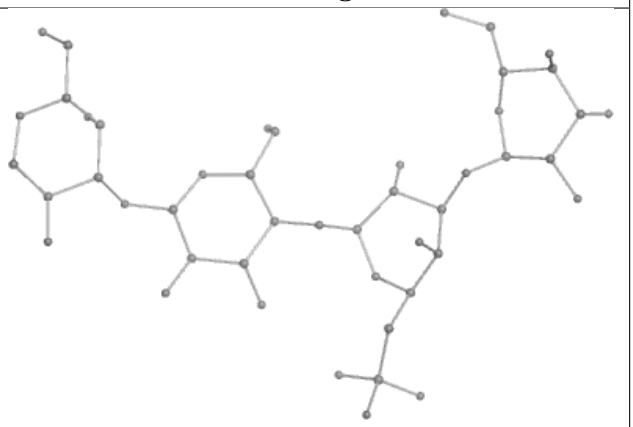
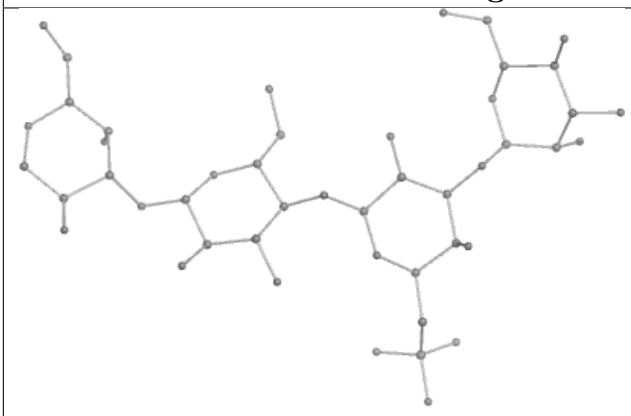


Rings

Oligosaccharide Chain cC



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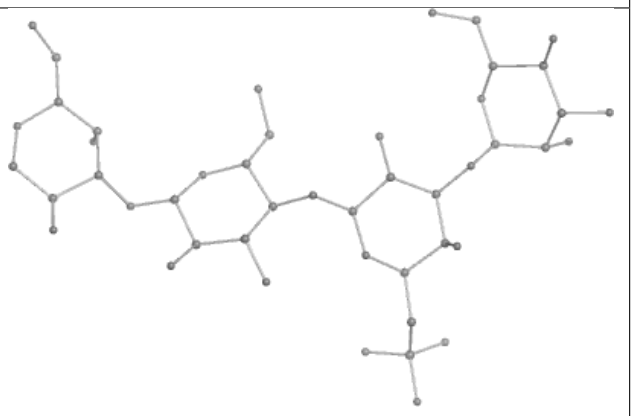

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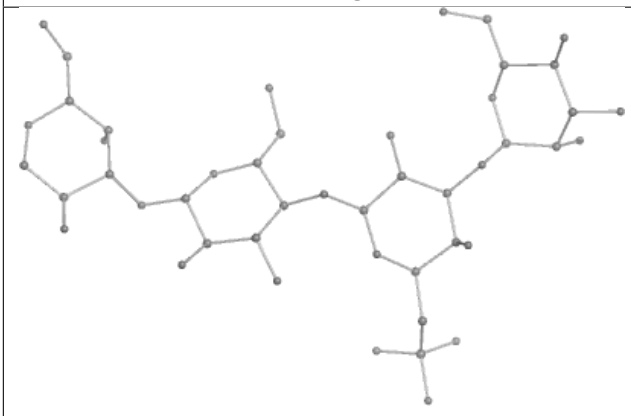

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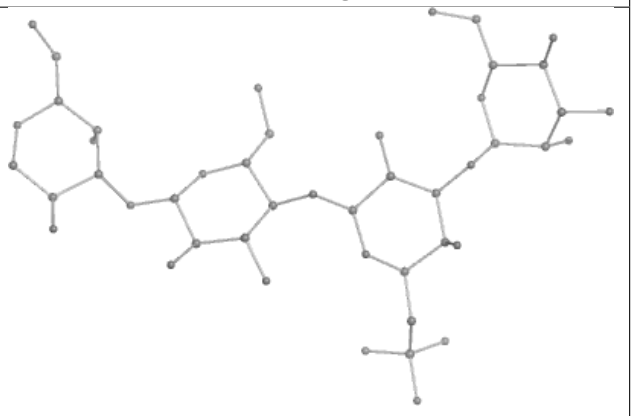
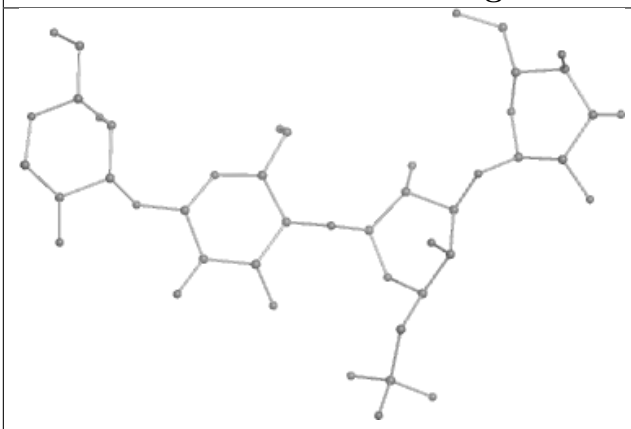


Rings

Oligosaccharide Chain hC



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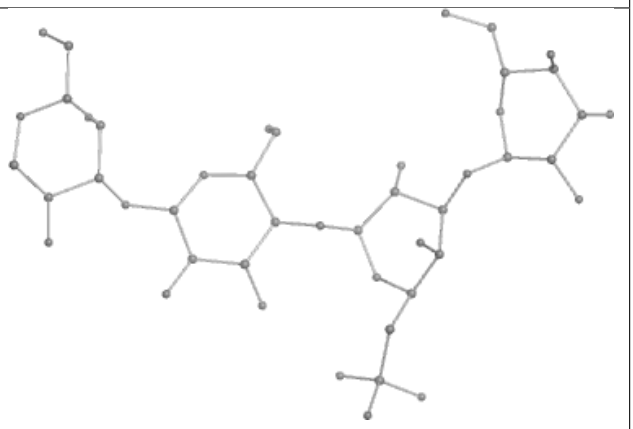
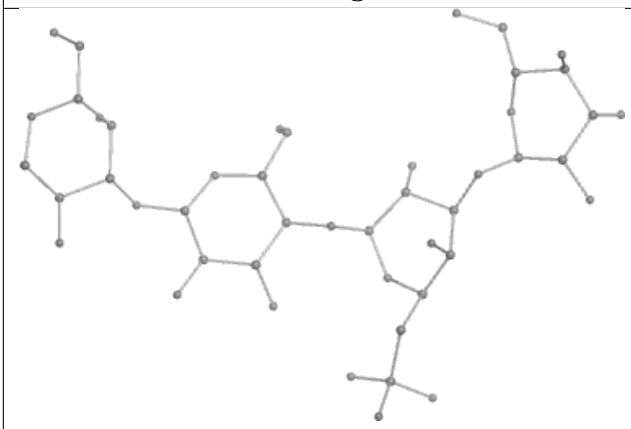


Bond angles



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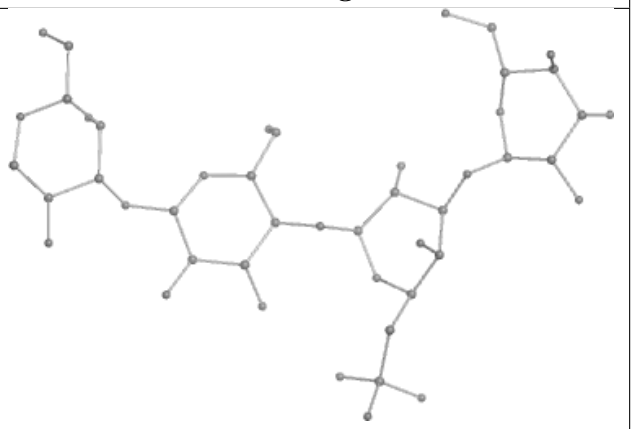
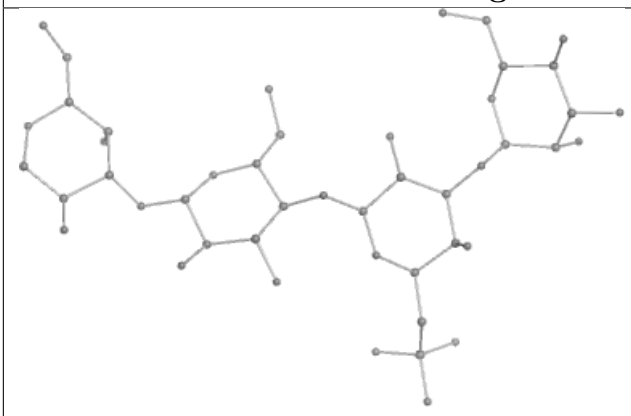


Rings

Oligosaccharide Chain jC



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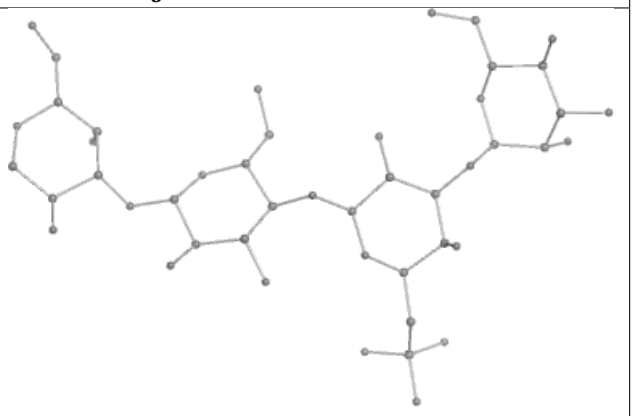
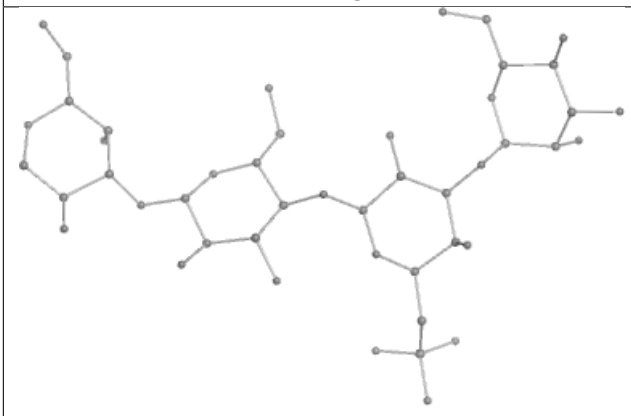


Bond angles



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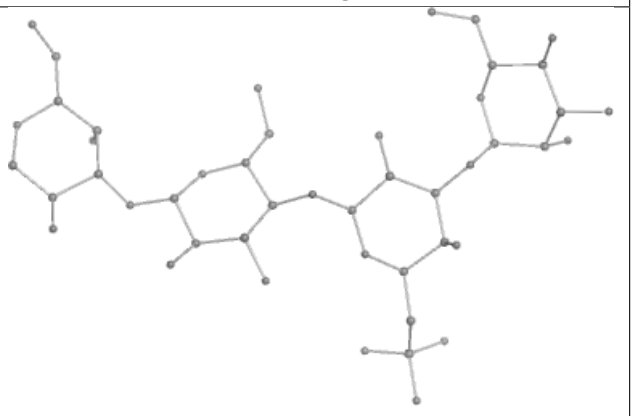
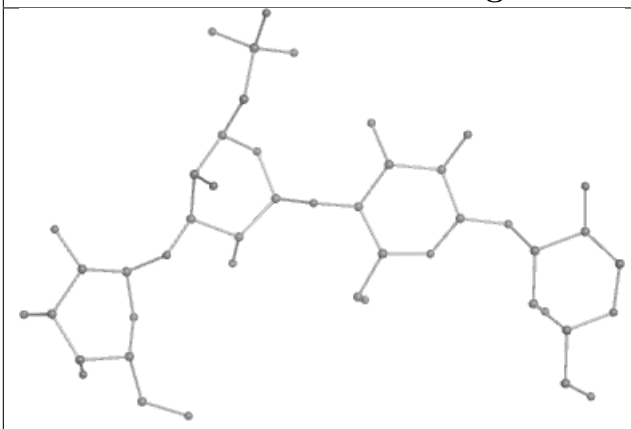


Rings

Oligosaccharide Chain oC



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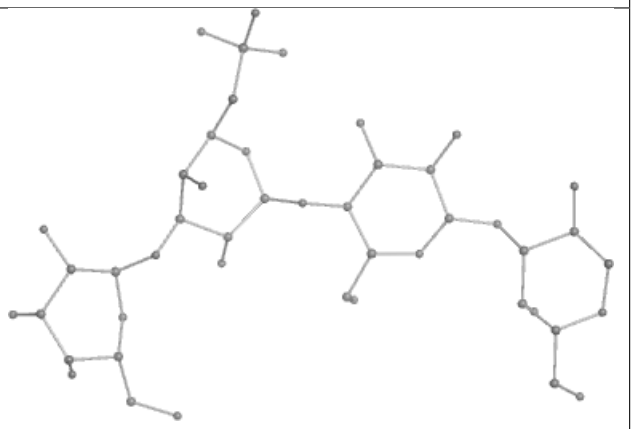
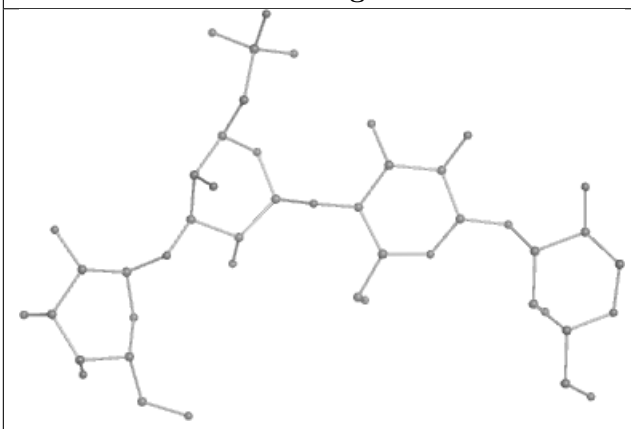


Bond angles



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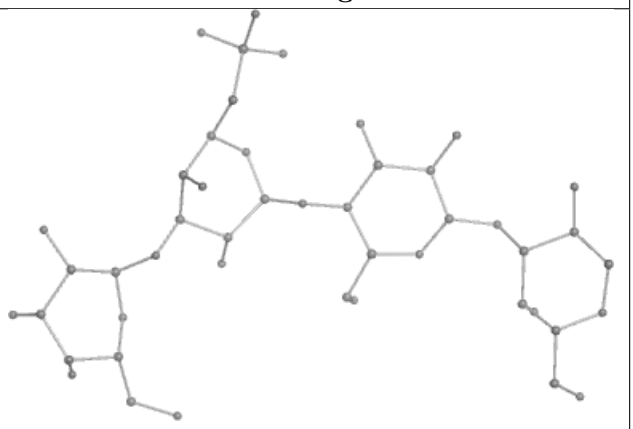
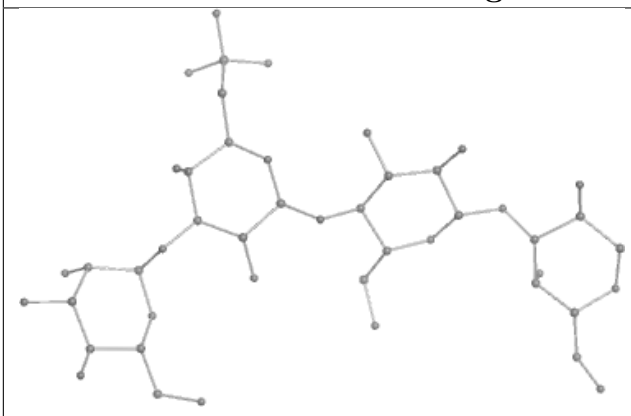
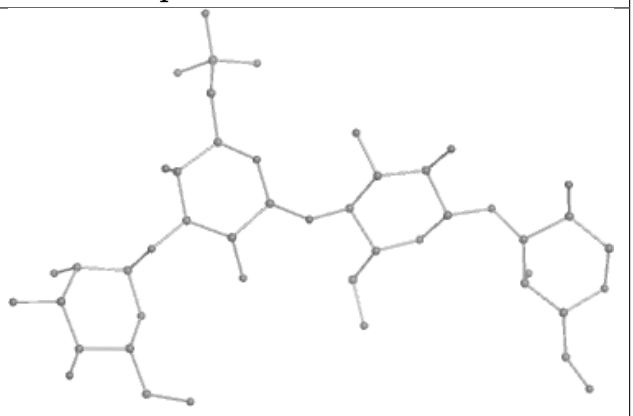


Rings

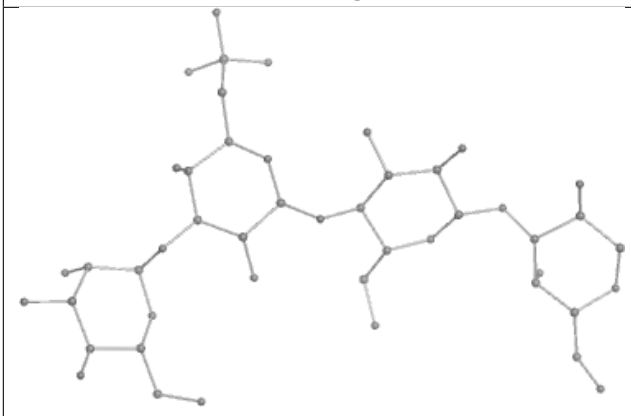
Oligosaccharide Chain qC



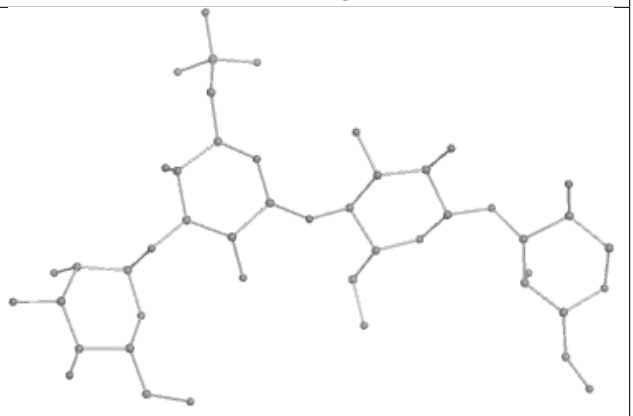
Bond lengths



Bond angles

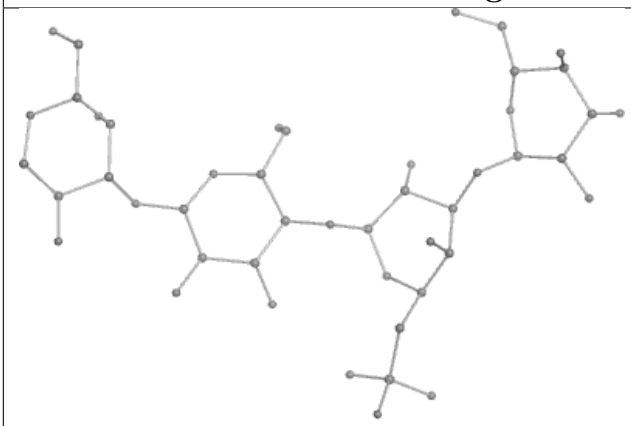


Torsions

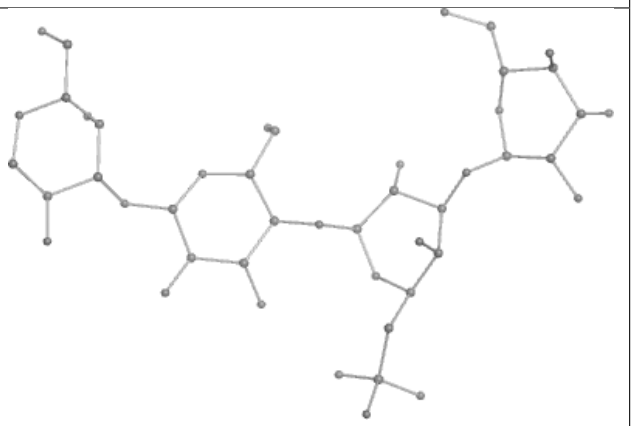


Rings

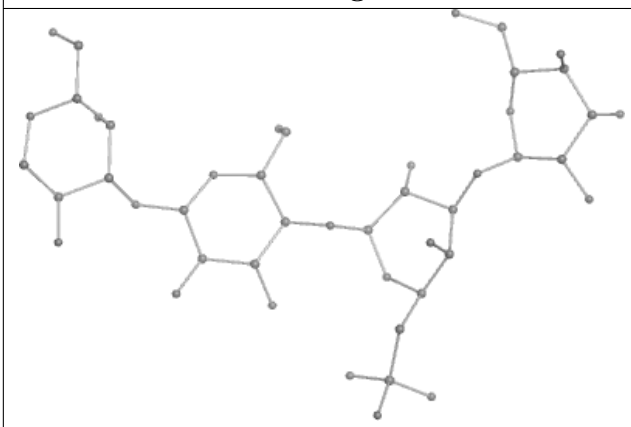
Oligosaccharide Chain vC



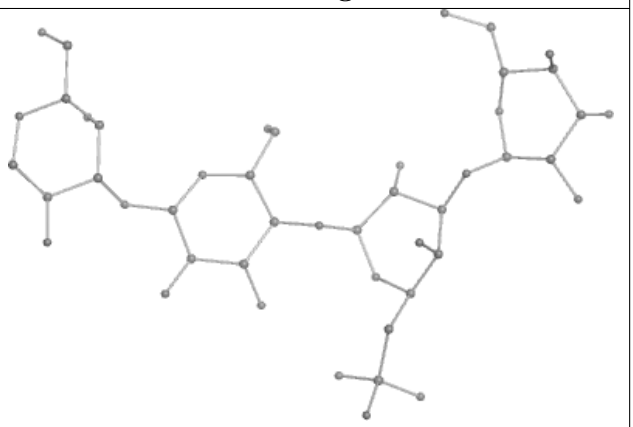
Bond lengths



Bond angles

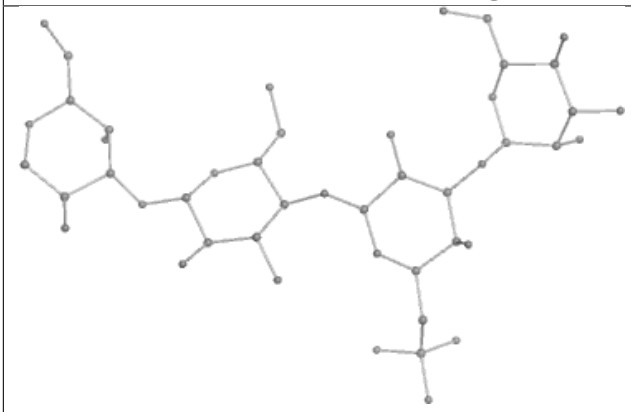


Torsions

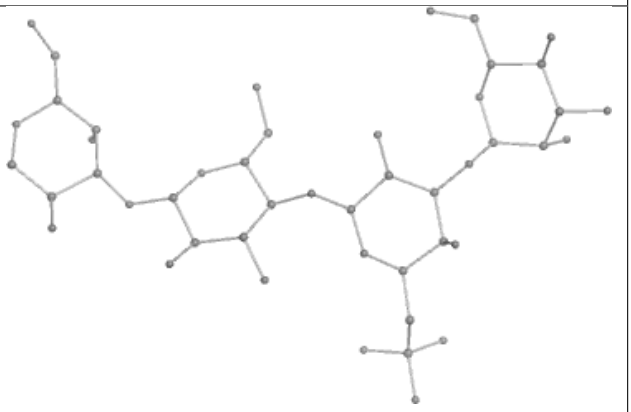


Rings

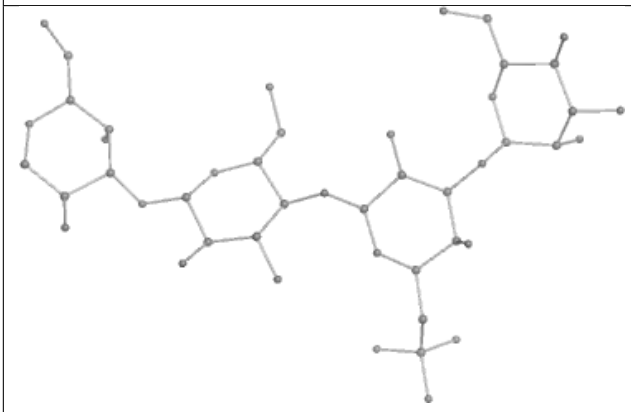
Oligosaccharide Chain xC



Bond lengths



Bond angles



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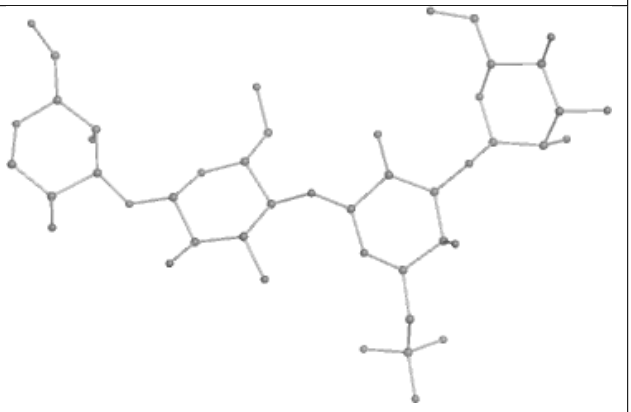
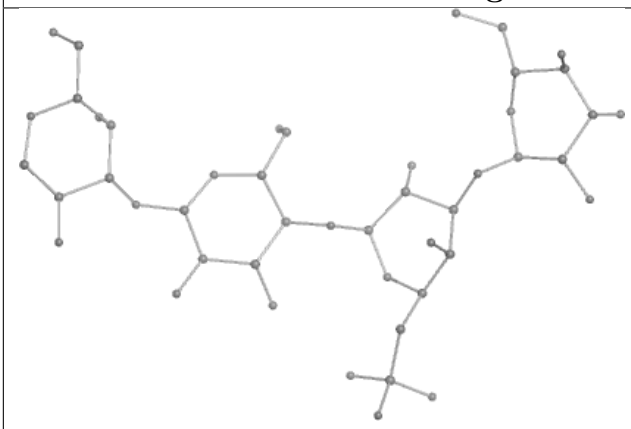
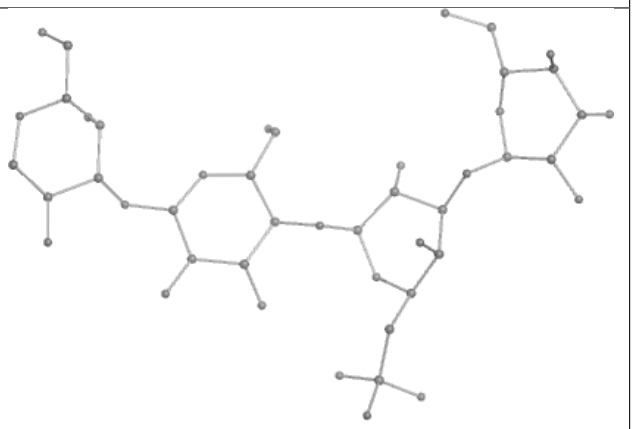


Rings

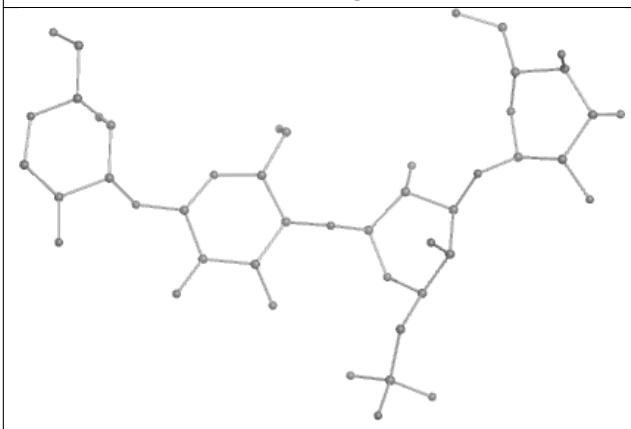
Oligosaccharide Chain 2C



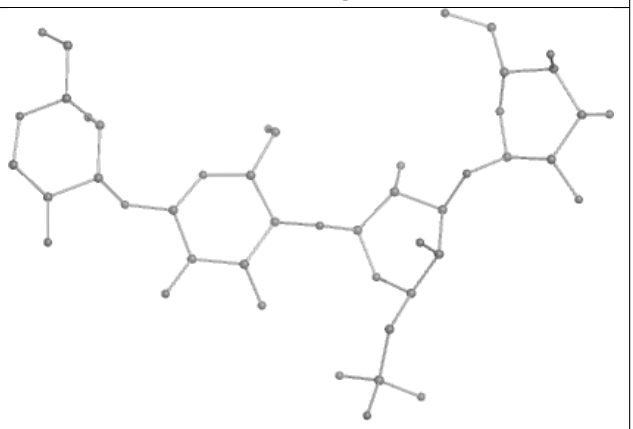
Bond lengths



Bond angles

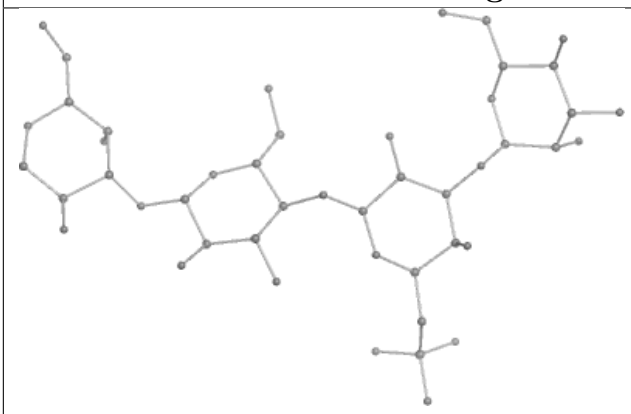


Torsions

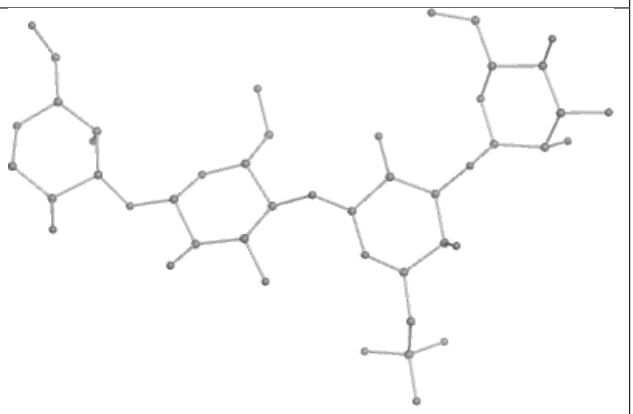


Rings

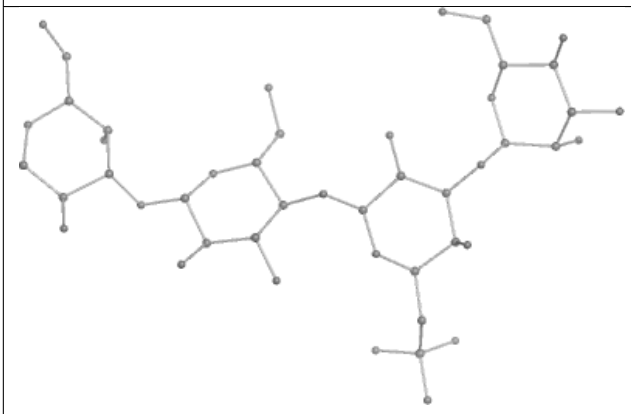
Oligosaccharide Chain 4C



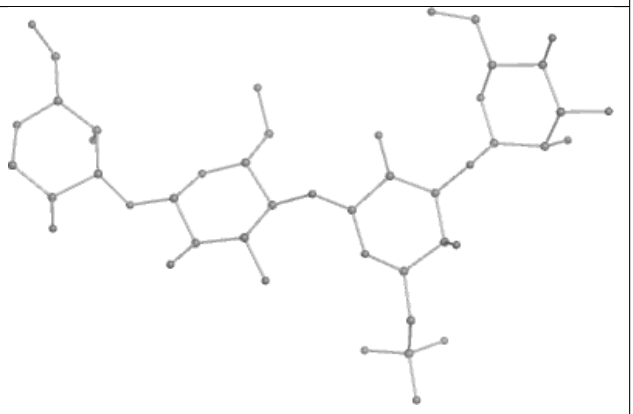
Bond lengths



Bond angles

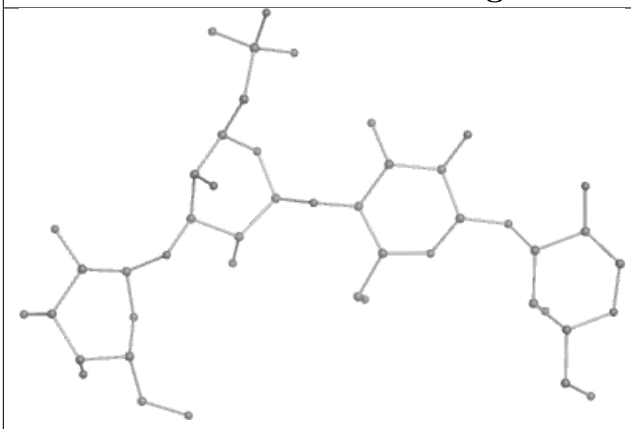


Torsions

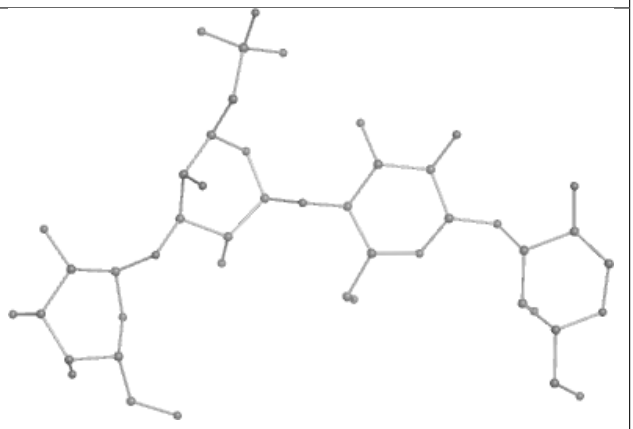


Rings

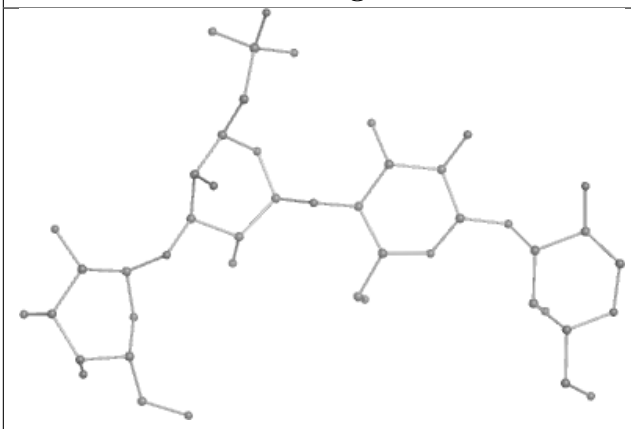
Oligosaccharide Chain 9C



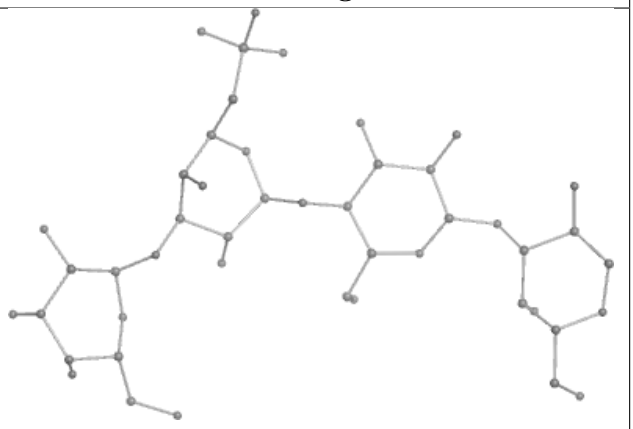
Bond lengths



Bond angles

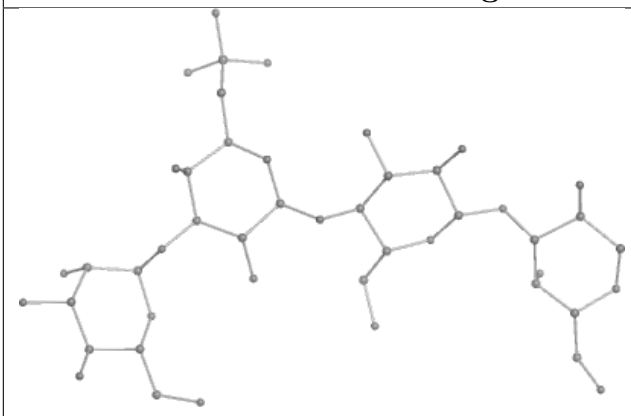


Torsions

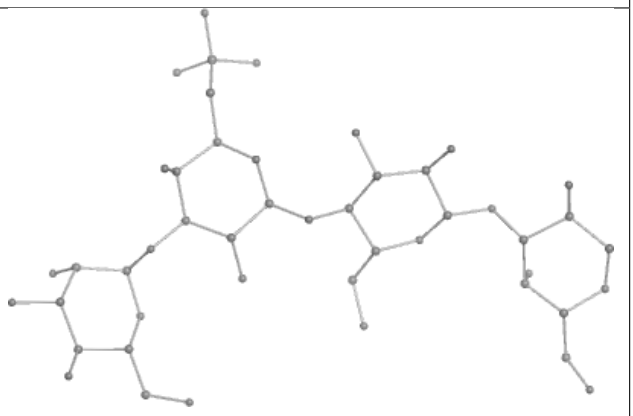


Rings

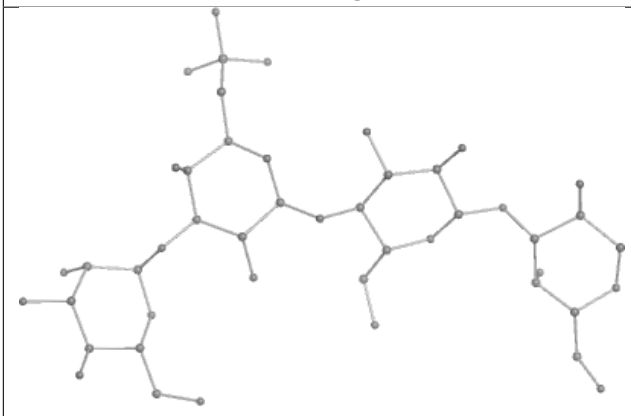
Oligosaccharide Chain BD



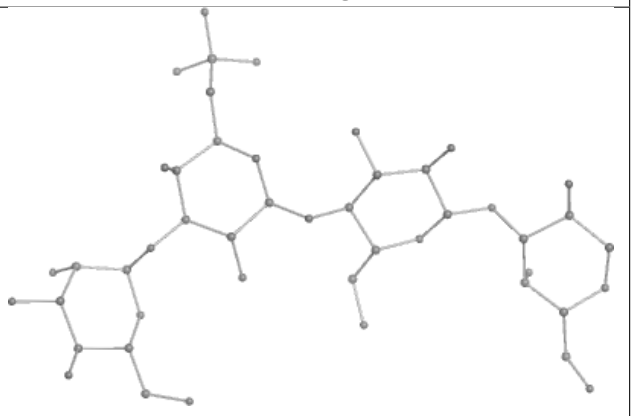
Bond lengths



Bond angles

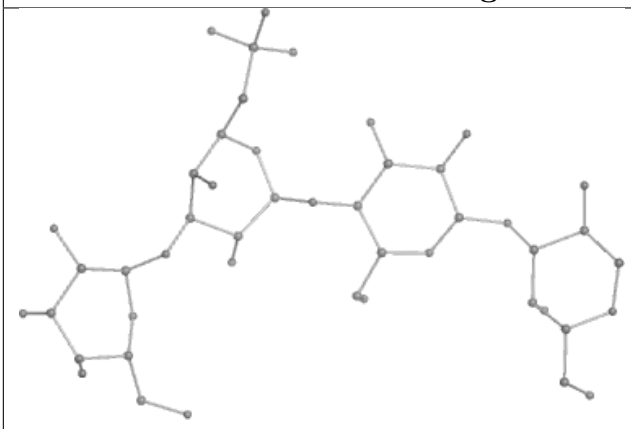


Torsions

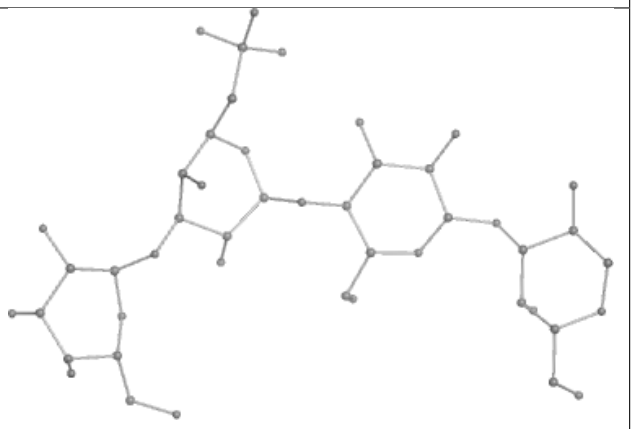


Rings

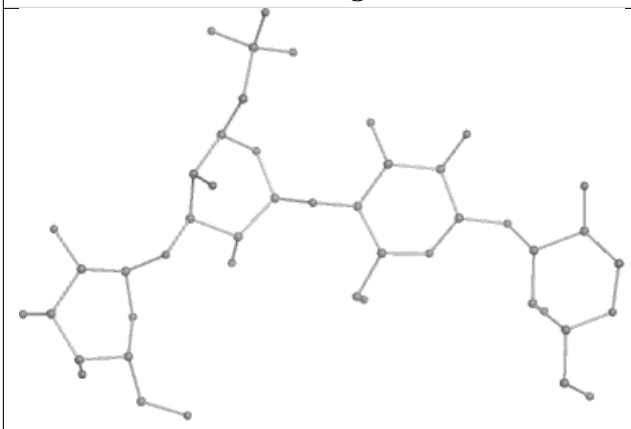
Oligosaccharide Chain GD



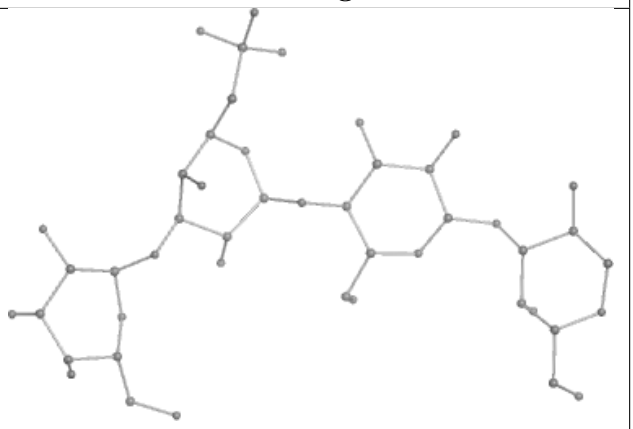
Bond lengths



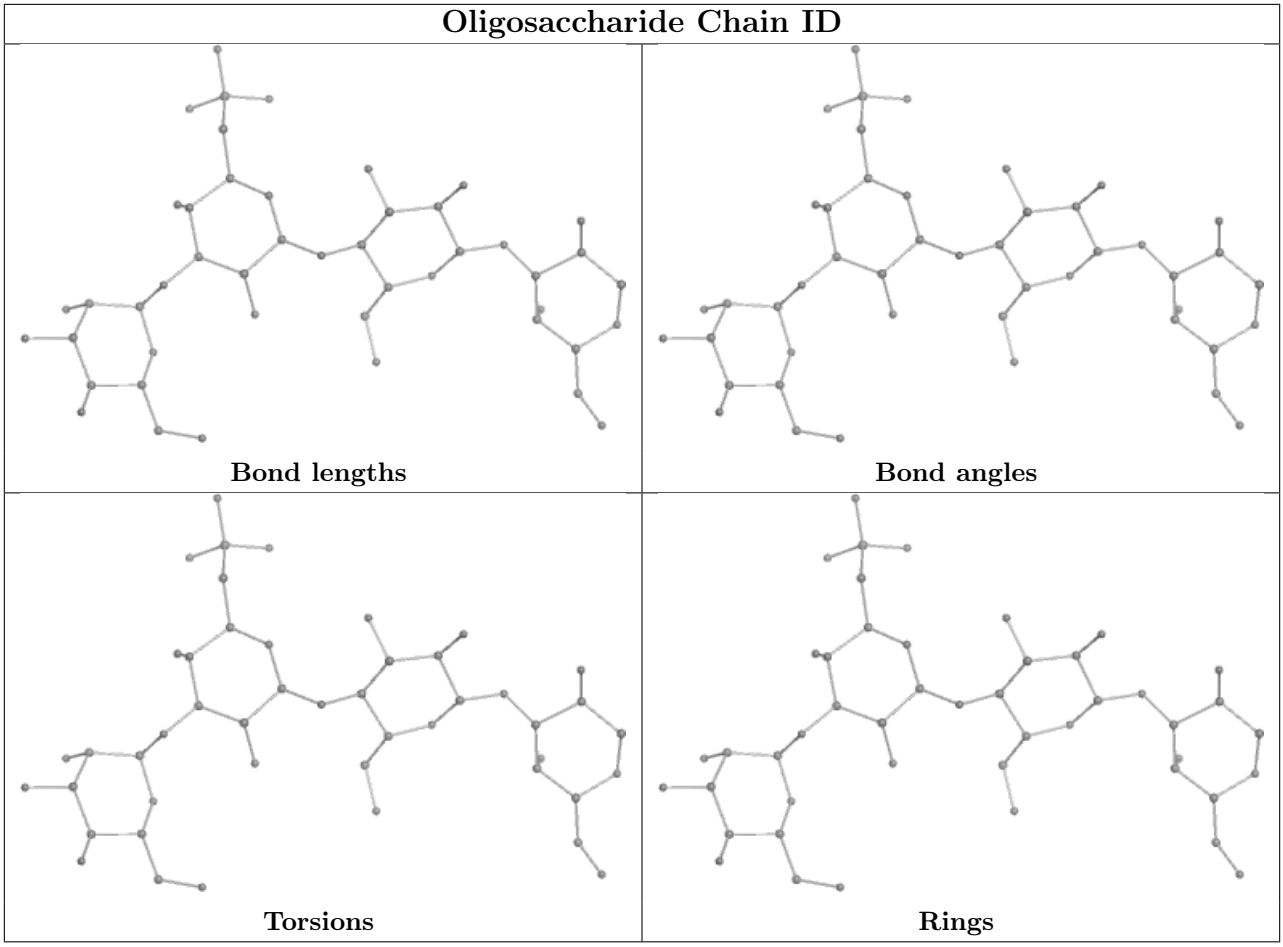
Bond angles



Torsions



Rings



5.6 Ligand geometry (i)

64 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	$\#\|Z\| > 2$
5	GAL	V	308	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	U	309	1	11,11,12	0.60	0	15,15,17	0.84	0
5	GAL	G	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	S	309	1	11,11,12	0.60	0	15,15,17	0.86	0
5	GAL	M	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	E	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	K	309	1	11,11,12	0.59	0	15,15,17	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GAL	A	311	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	X	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	P	310	1	11,11,12	0.59	0	15,15,17	0.88	0
5	GAL	P	309	1	11,11,12	0.60	0	15,15,17	0.84	0
5	GAL	U	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	O	312	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	G	310	1	11,11,12	0.58	0	15,15,17	0.90	0
5	GAL	D	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	E	310	1	11,11,12	0.58	0	15,15,17	0.90	0
5	GAL	B	311	1	11,11,12	0.57	0	15,15,17	0.90	0
5	GAL	W	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	F	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	S	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	c	310	1	11,11,12	0.61	0	15,15,17	0.85	0
5	GAL	N	310	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	I	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	b	311	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	f	311	1	11,11,12	0.59	0	15,15,17	0.88	0
5	GAL	Q	310	1	11,11,12	0.57	0	15,15,17	0.89	0
5	GAL	e	310	1	11,11,12	0.59	0	15,15,17	0.85	0
5	GAL	J	310	1	11,11,12	0.60	0	15,15,17	0.89	0
5	GAL	M	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	g	309	1	11,11,12	0.59	0	15,15,17	0.85	0
5	GAL	X	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	F	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	T	309	1	11,11,12	0.60	0	15,15,17	0.84	0
5	GAL	D	310	1	11,11,12	0.58	0	15,15,17	0.90	0
5	GAL	e	311	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	K	310	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	W	309	1	11,11,12	0.59	0	15,15,17	0.85	0
5	GAL	C	311	1	11,11,12	0.59	0	15,15,17	0.88	0
5	GAL	Y	310	1	11,11,12	0.59	0	15,15,17	0.88	0
5	GAL	T	310	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	g	310	1	11,11,12	0.59	0	15,15,17	0.90	0
5	GAL	c	311	1	11,11,12	0.59	0	15,15,17	0.90	0
5	GAL	A	310	1	11,11,12	0.60	0	15,15,17	0.86	0
5	GAL	I	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	L	309	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	R	309	1	11,11,12	0.61	0	15,15,17	0.85	0
5	GAL	d	310	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	V	309	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	Q	309	1	11,11,12	0.60	0	15,15,17	0.84	0
5	GAL	Y	309	1	11,11,12	0.59	0	15,15,17	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GAL	J	309	1	11,11,12	0.61	0	15,15,17	0.85	0
5	GAL	d	311	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	O	311	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	a	310	1	11,11,12	0.60	0	15,15,17	0.86	0
5	GAL	H	310	1	11,11,12	0.59	0	15,15,17	0.89	0
5	GAL	N	309	1	11,11,12	0.59	0	15,15,17	0.85	0
5	GAL	a	311	1	11,11,12	0.59	0	15,15,17	0.88	0
5	GAL	R	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	b	310	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	f	310	1	11,11,12	0.60	0	15,15,17	0.85	0
5	GAL	C	310	1	11,11,12	0.61	0	15,15,17	0.85	0
5	GAL	L	310	1	11,11,12	0.58	0	15,15,17	0.89	0
5	GAL	H	309	1	11,11,12	0.59	0	15,15,17	0.86	0
5	GAL	B	310	1	11,11,12	0.59	0	15,15,17	0.86	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
5	GAL	V	308	1	-	0/2/19/22	0/1/1/1
5	GAL	U	309	1	-	0/2/19/22	0/1/1/1
5	GAL	G	309	1	-	0/2/19/22	0/1/1/1
5	GAL	S	309	1	-	0/2/19/22	0/1/1/1
5	GAL	M	309	1	-	0/2/19/22	0/1/1/1
5	GAL	E	309	1	-	0/2/19/22	0/1/1/1
5	GAL	K	309	1	-	0/2/19/22	0/1/1/1
5	GAL	A	311	1	-	0/2/19/22	0/1/1/1
5	GAL	X	309	1	-	0/2/19/22	0/1/1/1
5	GAL	P	310	1	-	0/2/19/22	0/1/1/1
5	GAL	P	309	1	-	0/2/19/22	0/1/1/1
5	GAL	U	310	1	-	0/2/19/22	0/1/1/1
5	GAL	O	312	1	-	0/2/19/22	0/1/1/1
5	GAL	G	310	1	-	0/2/19/22	0/1/1/1
5	GAL	D	309	1	-	0/2/19/22	0/1/1/1
5	GAL	E	310	1	-	0/2/19/22	0/1/1/1
5	GAL	B	311	1	-	0/2/19/22	0/1/1/1
5	GAL	W	310	1	-	0/2/19/22	0/1/1/1
5	GAL	F	309	1	-	0/2/19/22	0/1/1/1
5	GAL	S	310	1	-	0/2/19/22	0/1/1/1
5	GAL	c	310	1	-	0/2/19/22	0/1/1/1
5	GAL	N	310	1	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GAL	I	309	1	-	0/2/19/22	0/1/1/1
5	GAL	b	311	1	-	0/2/19/22	0/1/1/1
5	GAL	f	311	1	-	0/2/19/22	0/1/1/1
5	GAL	Q	310	1	-	0/2/19/22	0/1/1/1
5	GAL	e	310	1	-	0/2/19/22	0/1/1/1
5	GAL	J	310	1	-	0/2/19/22	0/1/1/1
5	GAL	M	310	1	-	0/2/19/22	0/1/1/1
5	GAL	g	309	1	-	0/2/19/22	0/1/1/1
5	GAL	X	310	1	-	0/2/19/22	0/1/1/1
5	GAL	F	310	1	-	0/2/19/22	0/1/1/1
5	GAL	T	309	1	-	0/2/19/22	0/1/1/1
5	GAL	D	310	1	-	0/2/19/22	0/1/1/1
5	GAL	e	311	1	-	0/2/19/22	0/1/1/1
5	GAL	K	310	1	-	0/2/19/22	0/1/1/1
5	GAL	W	309	1	-	0/2/19/22	0/1/1/1
5	GAL	C	311	1	-	0/2/19/22	0/1/1/1
5	GAL	Y	310	1	-	0/2/19/22	0/1/1/1
5	GAL	T	310	1	-	0/2/19/22	0/1/1/1
5	GAL	g	310	1	-	0/2/19/22	0/1/1/1
5	GAL	c	311	1	-	0/2/19/22	0/1/1/1
5	GAL	A	310	1	-	0/2/19/22	0/1/1/1
5	GAL	I	310	1	-	0/2/19/22	0/1/1/1
5	GAL	L	309	1	-	0/2/19/22	0/1/1/1
5	GAL	R	309	1	-	0/2/19/22	0/1/1/1
5	GAL	d	310	1	-	0/2/19/22	0/1/1/1
5	GAL	V	309	1	-	0/2/19/22	0/1/1/1
5	GAL	Q	309	1	-	0/2/19/22	0/1/1/1
5	GAL	Y	309	1	-	0/2/19/22	0/1/1/1
5	GAL	J	309	1	-	0/2/19/22	0/1/1/1
5	GAL	d	311	1	-	0/2/19/22	0/1/1/1
5	GAL	O	311	1	-	0/2/19/22	0/1/1/1
5	GAL	a	310	1	-	0/2/19/22	0/1/1/1
5	GAL	H	310	1	-	0/2/19/22	0/1/1/1
5	GAL	N	309	1	-	0/2/19/22	0/1/1/1
5	GAL	a	311	1	-	0/2/19/22	0/1/1/1
5	GAL	R	310	1	-	0/2/19/22	0/1/1/1
5	GAL	b	310	1	-	0/2/19/22	0/1/1/1
5	GAL	f	310	1	-	0/2/19/22	0/1/1/1
5	GAL	C	310	1	-	0/2/19/22	0/1/1/1
5	GAL	L	310	1	-	0/2/19/22	0/1/1/1
5	GAL	H	309	1	-	0/2/19/22	0/1/1/1
5	GAL	B	310	1	-	0/2/19/22	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

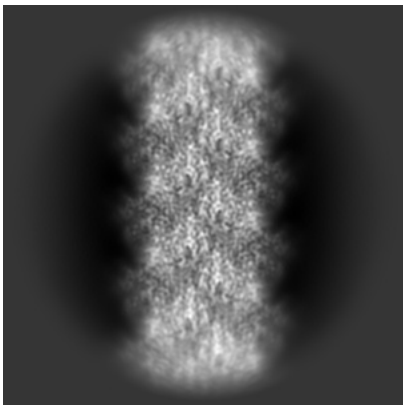
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-19168. These allow visual inspection of the internal detail of the map and identification of artifacts.

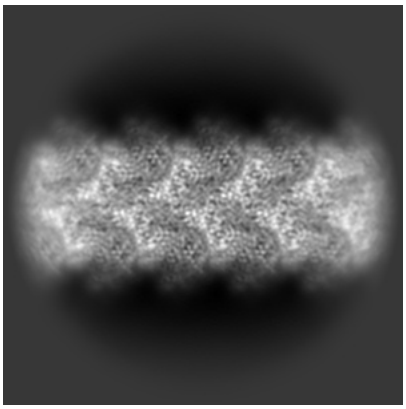
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

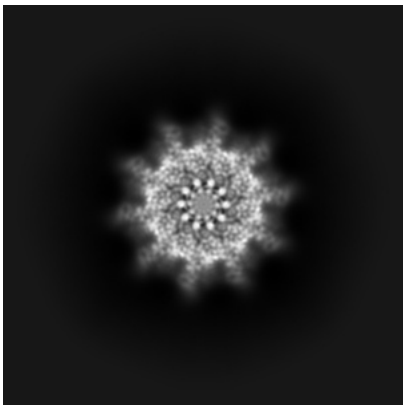
6.1.1 Primary map



X

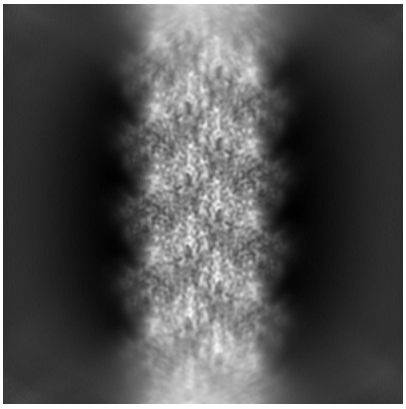


Y

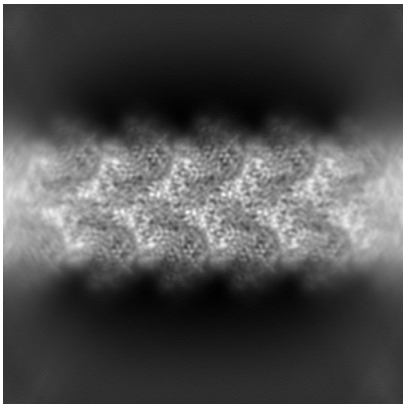


Z

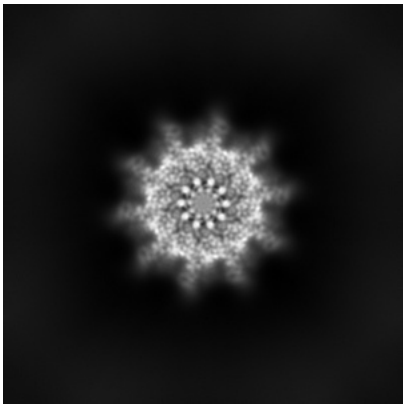
6.1.2 Raw map



X



Y

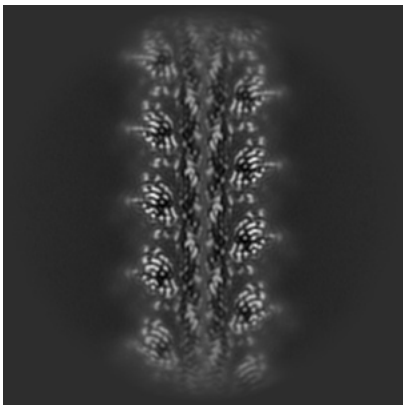


Z

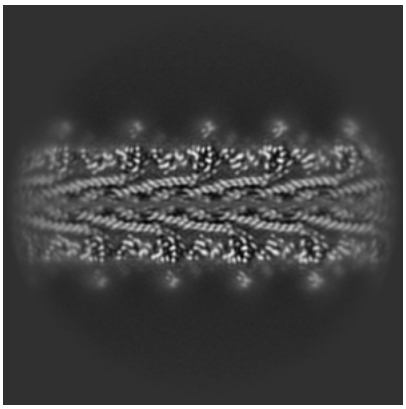
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

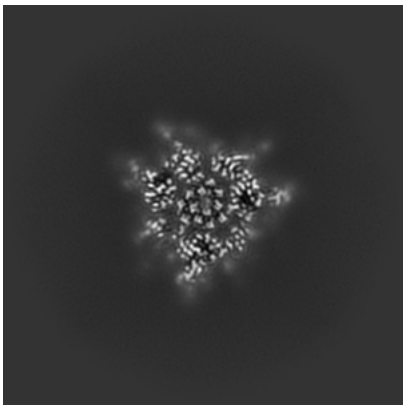
6.2.1 Primary map



X Index: 150

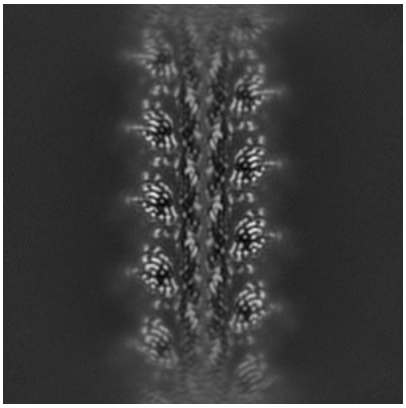


Y Index: 150

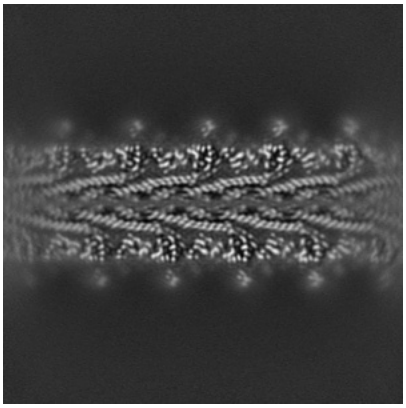


Z Index: 150

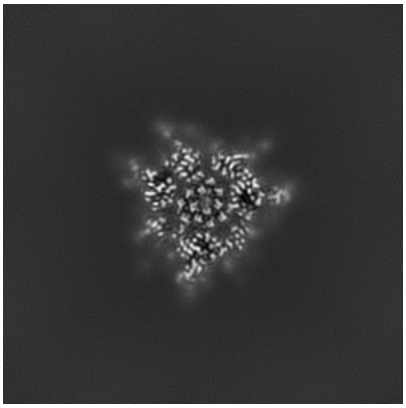
6.2.2 Raw map



X Index: 150



Y Index: 150

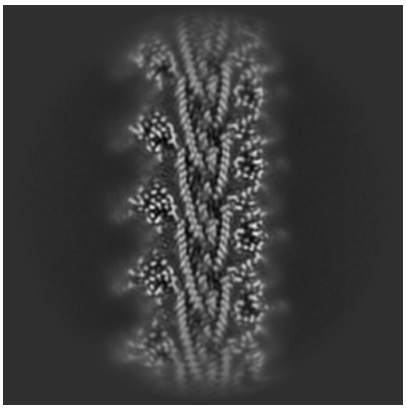


Z Index: 150

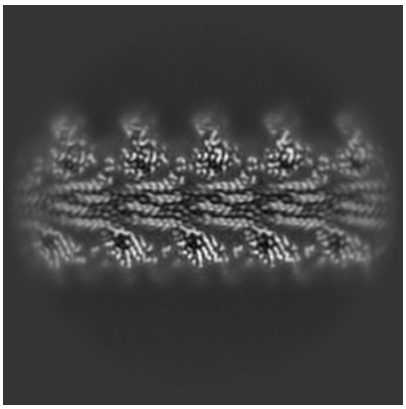
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

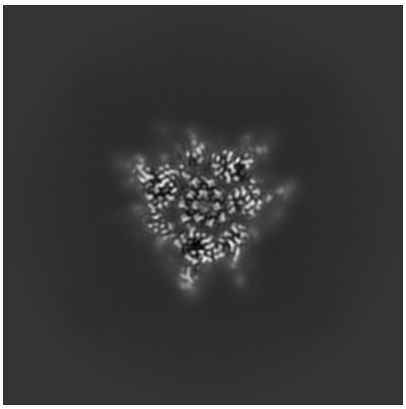
6.3.1 Primary map



X Index: 145

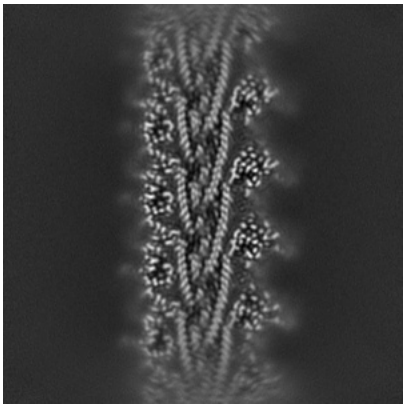


Y Index: 161

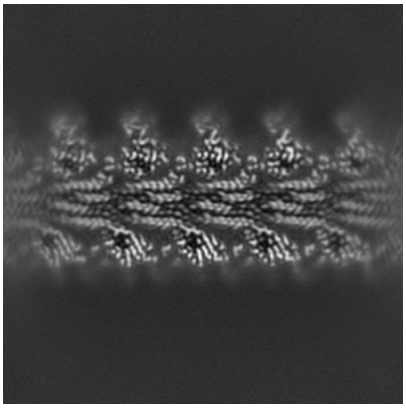


Z Index: 145

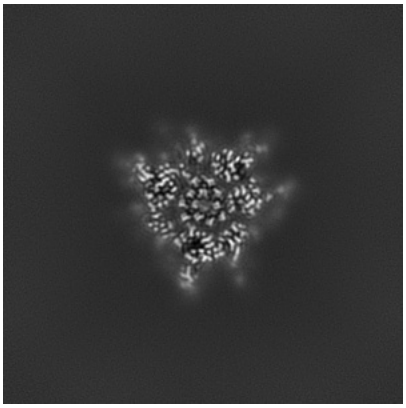
6.3.2 Raw map



X Index: 155



Y Index: 161

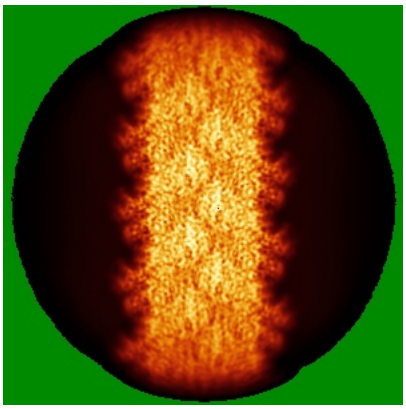


Z Index: 145

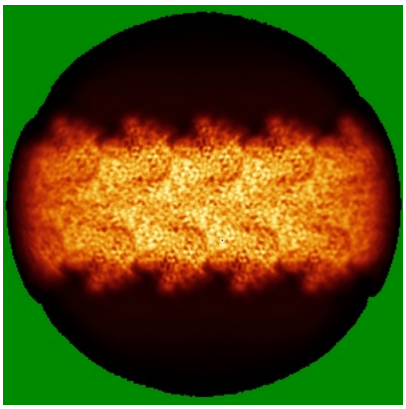
The images above show the largest variance slices of the map in three orthogonal directions.

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

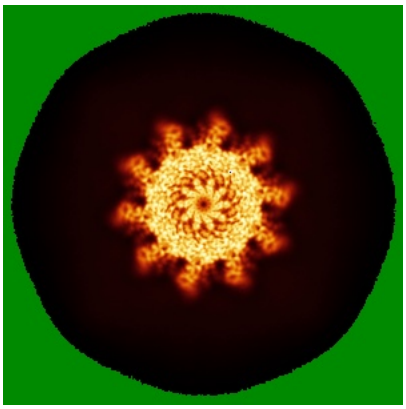
6.4.1 Primary map



X

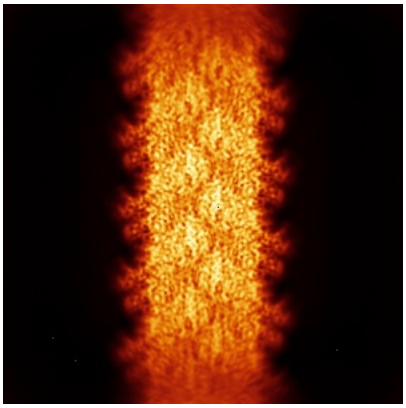


Y

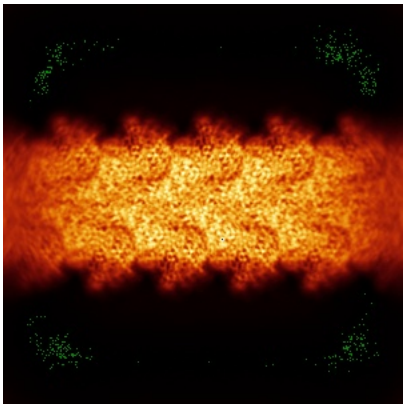


Z

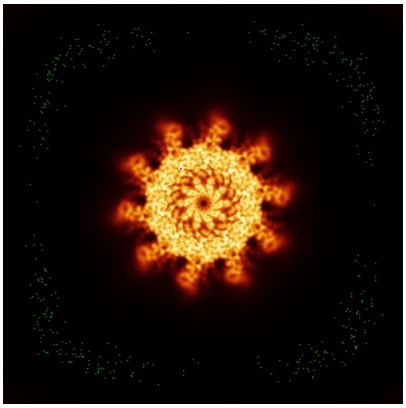
6.4.2 Raw map



X



Y

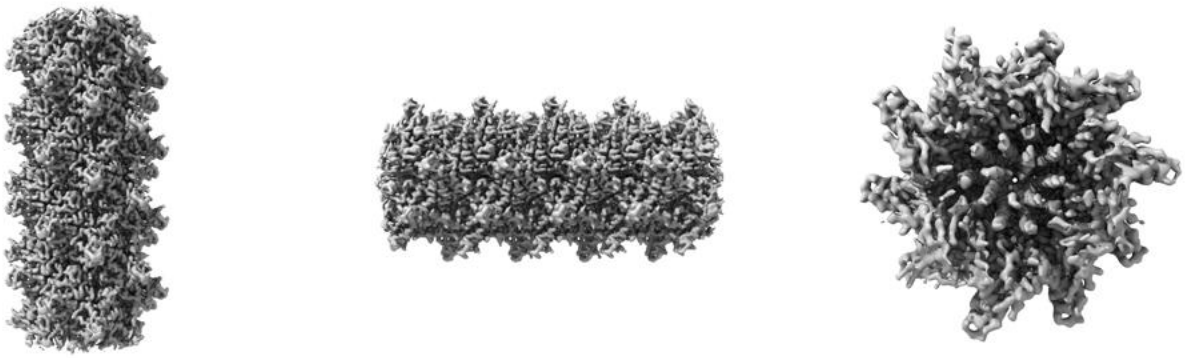


Z

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)

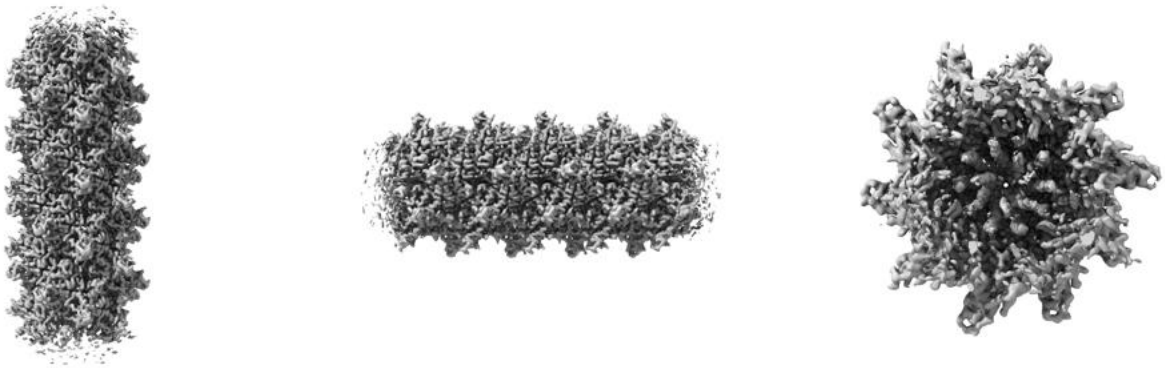
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. 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.

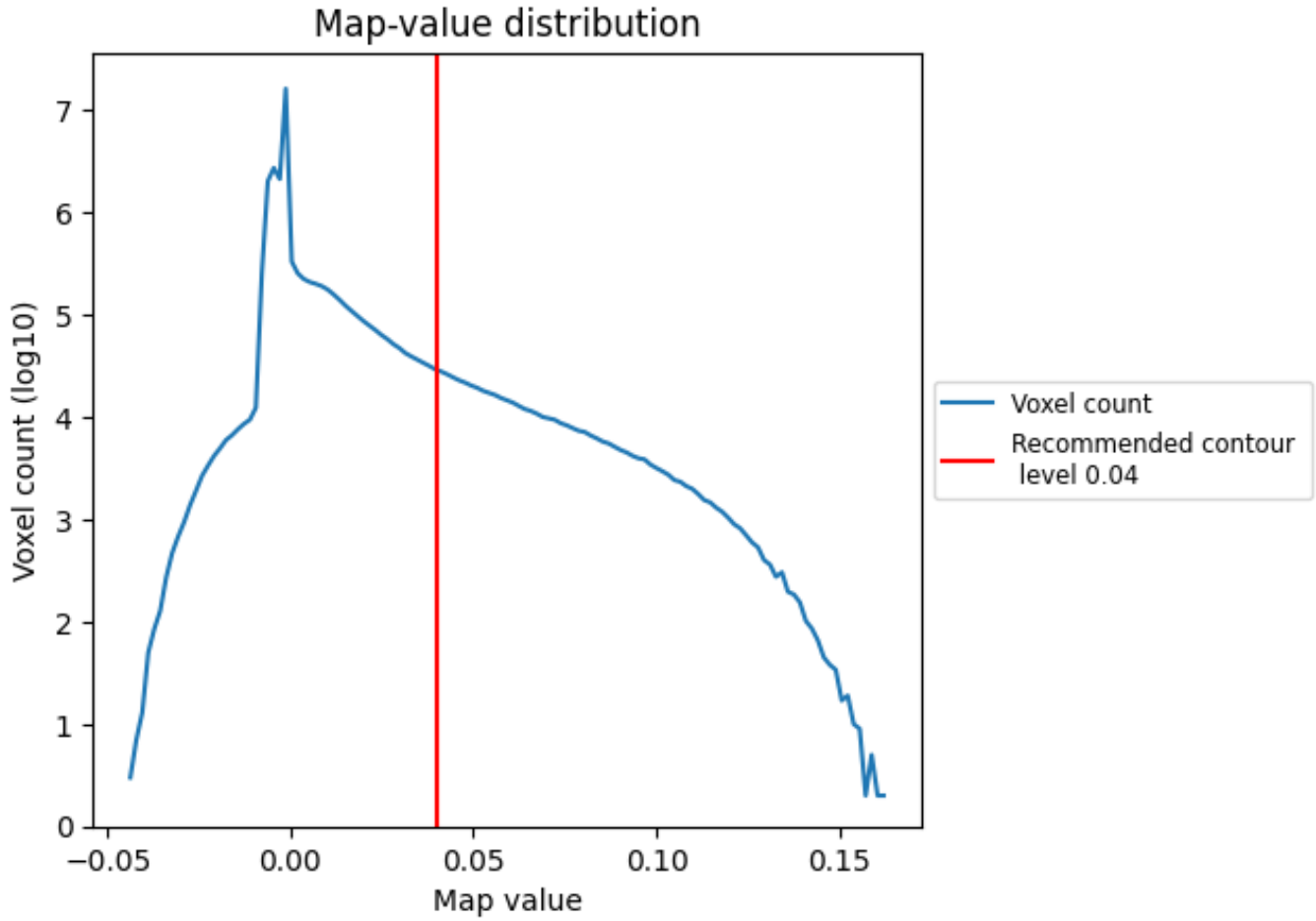
6.6 Mask visualisation (i)

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

7 Map analysis

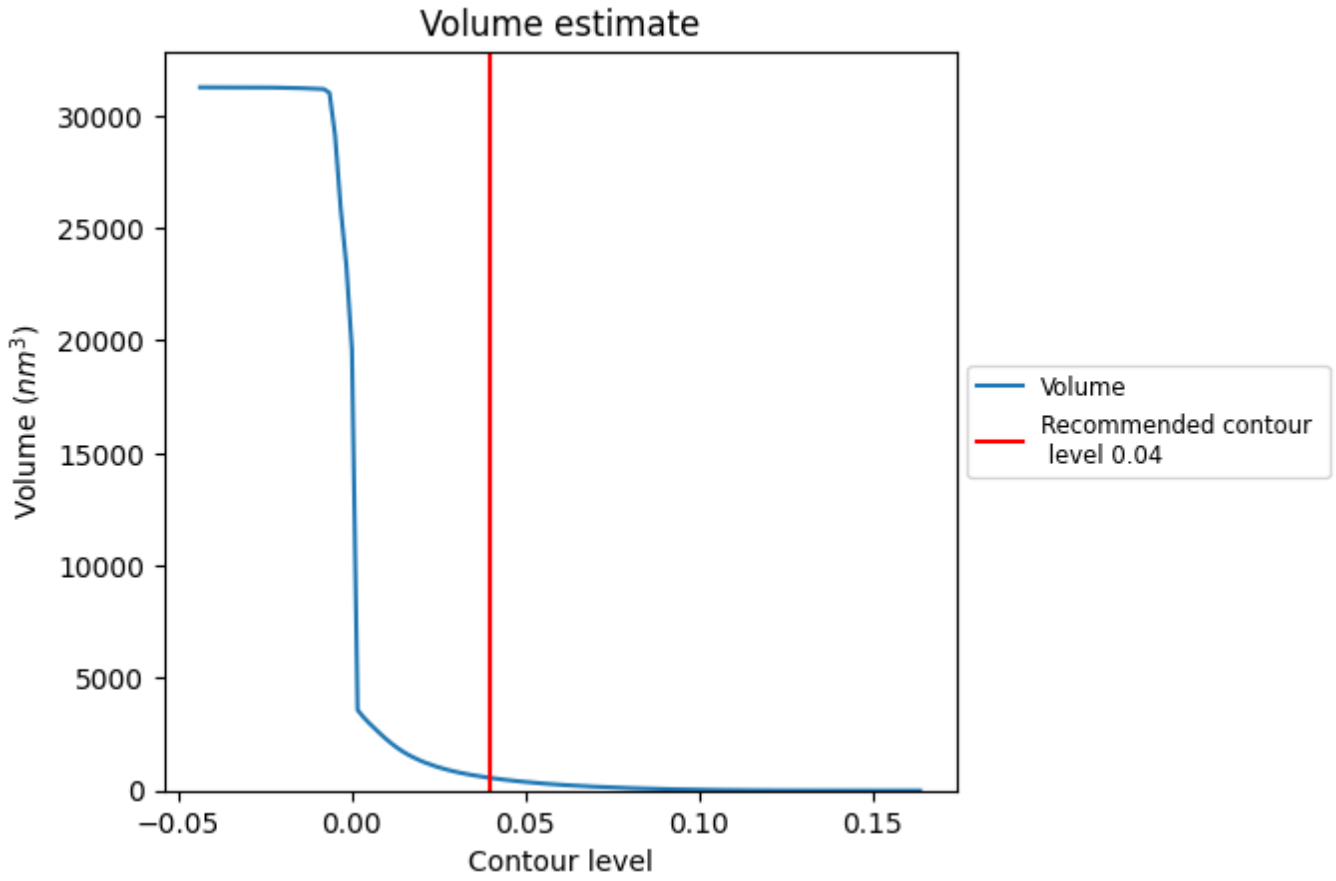
This section contains the results of statistical analysis of the map.

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.

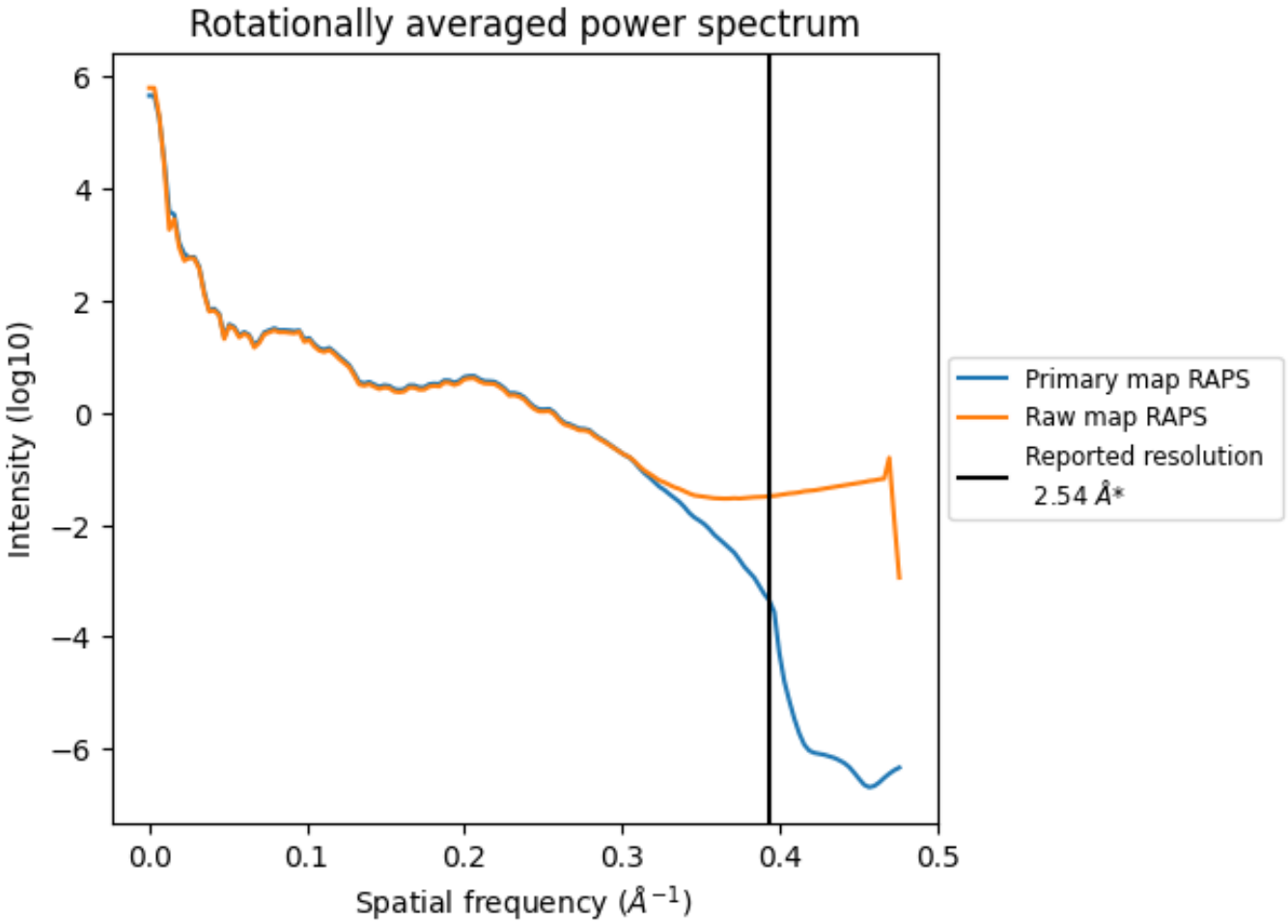
7.2 Volume estimate



The volume at the recommended contour level is 560 nm^3; this corresponds to an approximate mass of 506 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)

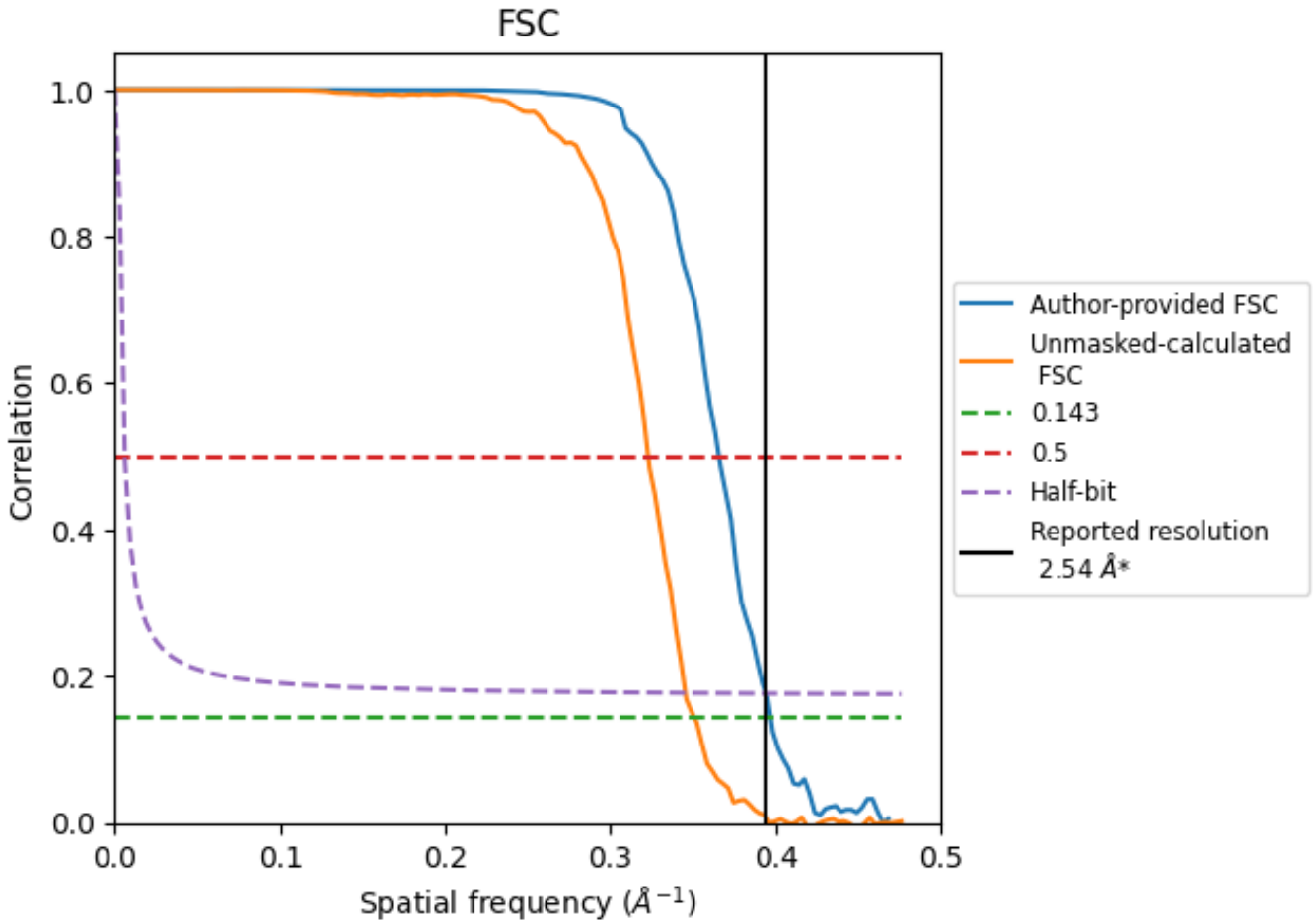


*Reported resolution corresponds to spatial frequency of 0.394 Å^{-1}

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 0.394 $Å^{-1}$

8.2 Resolution estimates (i)

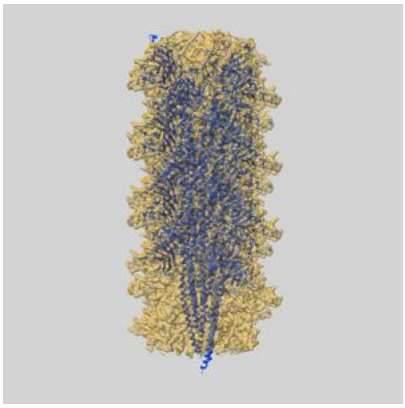
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.54	-	-
Author-provided FSC curve	2.52	2.73	2.54
Unmasked-calculated*	2.85	3.10	2.89

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.85 differs from the reported value 2.54 by more than 10 %

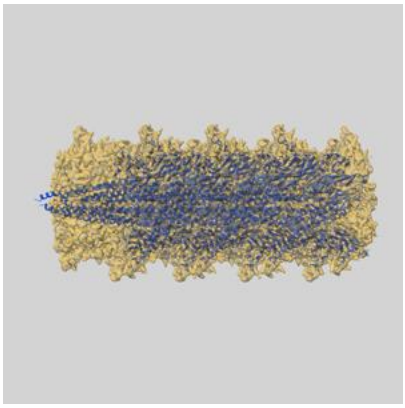
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-19168 and PDB model 8RH5. Per-residue inclusion information can be found in section 3 on page 27.

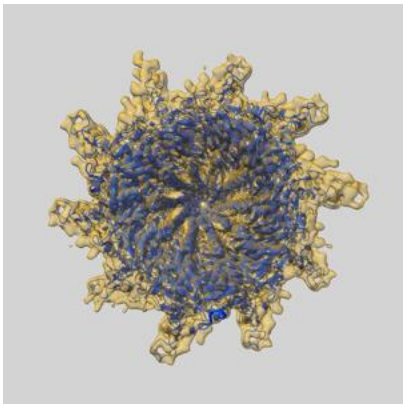
9.1 Map-model overlay



X



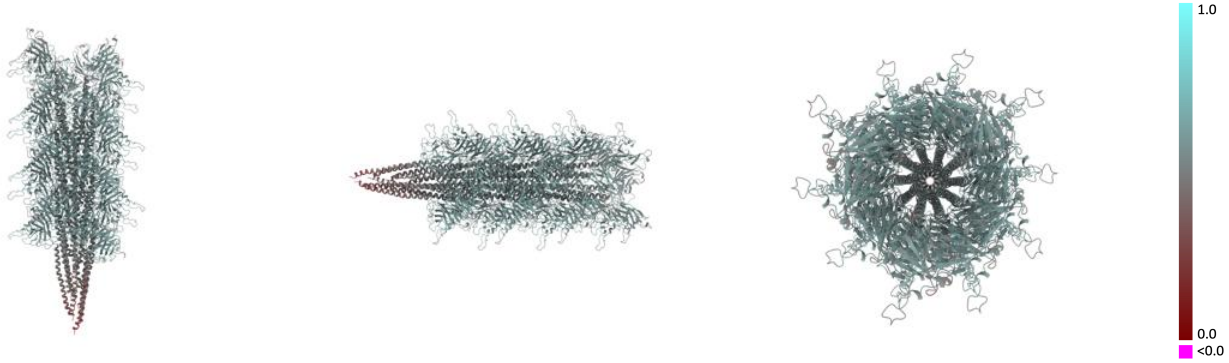
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04 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.

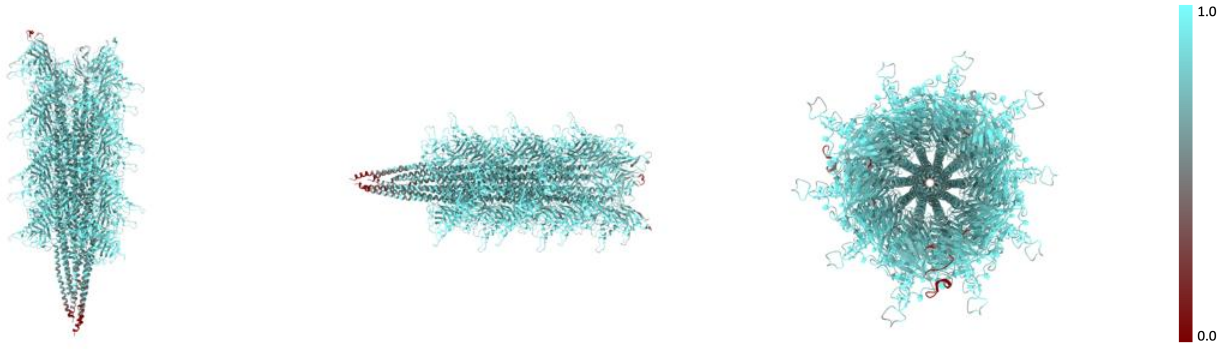
9.2 Q-score mapped to coordinate model



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.

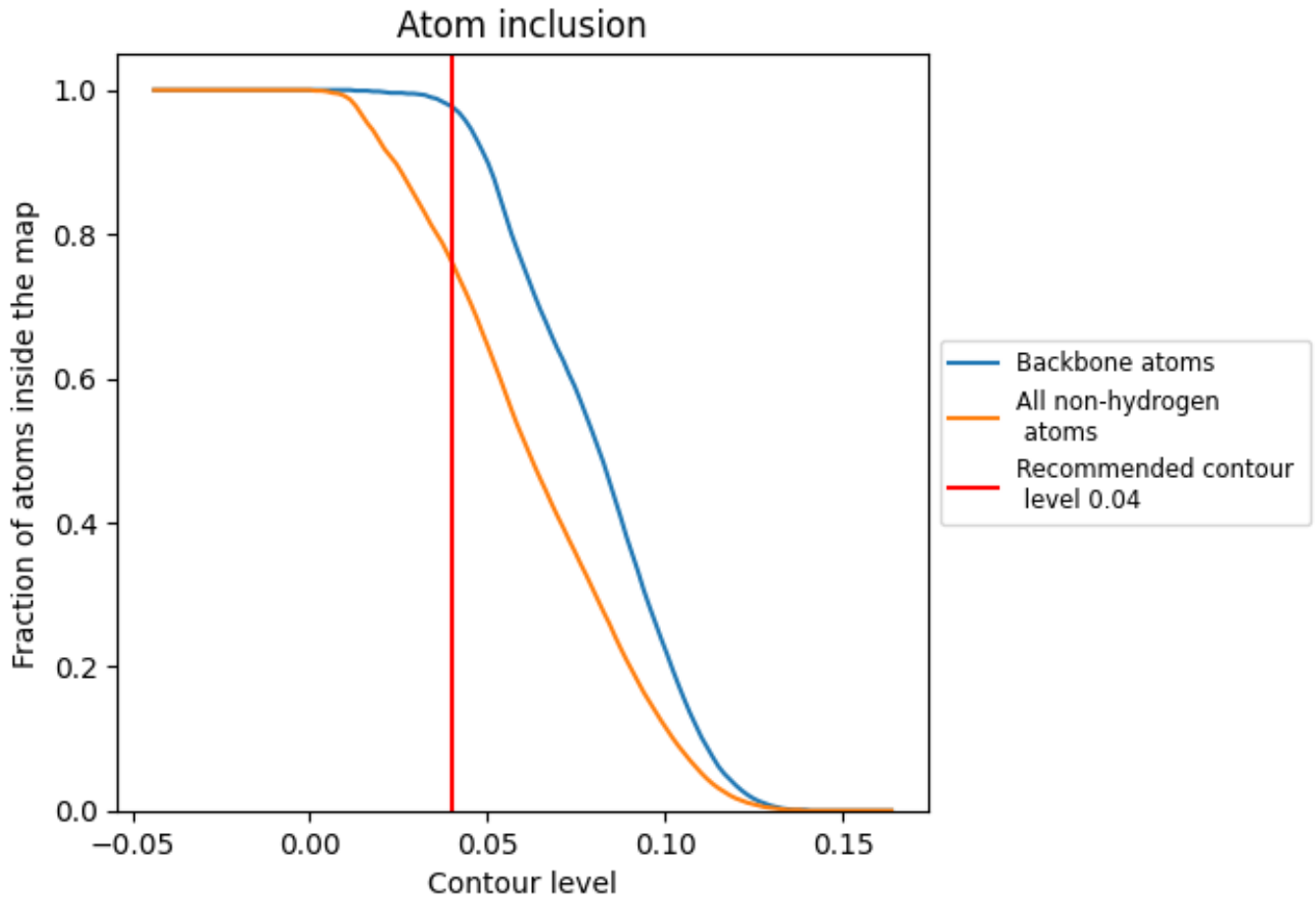
9.3 Atom inclusion mapped to coordinate model



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 (0.04).

9.4 Atom inclusion (i)



At the recommended contour level, 98% of all backbone atoms, 76% 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 (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7610	0.5150
0	0.3170	0.3410
0A	0.3400	0.3680
0B	0.3170	0.3230
0C	0.3330	0.2700
1	0.3620	0.4000
1A	0.3500	0.3350
1B	0.3400	0.3510
1C	0.3170	0.3010
2	0.1270	0.2820
2A	0.4470	0.4220
2B	0.3330	0.3320
2C	0.2340	0.3230
3A	0.1270	0.2540
3B	0.3830	0.4200
3C	0.2500	0.3090
4	0.3830	0.2650
4B	0.0990	0.2730
4C	0.3190	0.3840
5	0.3330	0.3090
5A	0.4170	0.2680
5C	0.0000	0.1600
6	0.3400	0.3450
6A	0.3170	0.3180
6B	0.4170	0.2720
7	0.3000	0.3440
7A	0.3400	0.3660
7B	0.3170	0.3040
7C	0.3000	0.2680
8	0.3620	0.4010
8A	0.3330	0.3410
8B	0.3400	0.3660
8C	0.3000	0.3100
9	0.1270	0.2710
9A	0.4250	0.4160

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Chain	Atom inclusion	Q-score
9B	0.3330	0.3290
9C	0.1920	0.3140
A	0.7910	0.5260
AB	0.1270	0.2460
AC	0.4040	0.4180
AD	0.2500	0.3090
B	0.8110	0.5310
BA	0.4000	0.2690
BC	0.0850	0.2820
BD	0.3190	0.3800
C	0.8260	0.5400
CA	0.3170	0.3030
CB	0.4170	0.2660
CD	0.0000	0.0960
D	0.8380	0.5430
DA	0.3400	0.3460
DB	0.3170	0.3130
DC	0.4000	0.2650
E	0.8510	0.5500
EA	0.3330	0.3410
EB	0.3400	0.3660
EC	0.3170	0.3170
ED	0.2000	0.2590
F	0.8600	0.5530
FA	0.4040	0.4180
FB	0.3330	0.3470
FC	0.3400	0.3490
FD	0.3000	0.3100
G	0.8670	0.5550
GA	0.1270	0.2850
GB	0.4890	0.4160
GC	0.3170	0.3270
GD	0.1920	0.3030
H	0.8700	0.5600
HB	0.1270	0.2400
HC	0.3830	0.4150
HD	0.1830	0.2810
I	0.8740	0.5610
IA	0.4000	0.2690
IC	0.0850	0.2720
ID	0.2340	0.3700
J	0.8770	0.5650

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Chain	Atom inclusion	Q-score
JA	0.3330	0.3030
JB	0.4000	0.2670
K	0.8810	0.5670
KA	0.3400	0.3620
KB	0.3170	0.3020
KC	0.4000	0.2660
L	0.8830	0.5650
LA	0.3330	0.3440
LB	0.3400	0.3640
LC	0.3330	0.3040
M	0.8860	0.5690
MA	0.3830	0.4140
MB	0.3330	0.3380
MC	0.3400	0.3570
N	0.8870	0.5680
NA	0.1270	0.2790
NB	0.4040	0.4200
NC	0.3000	0.3250
O	0.8840	0.5690
OB	0.1270	0.2420
OC	0.4040	0.4220
P	0.8840	0.5710
PA	0.4000	0.2710
PC	0.0850	0.2680
Q	0.8860	0.5700
QA	0.3330	0.3110
QB	0.4000	0.2760
R	0.8870	0.5690
RA	0.3400	0.3590
RB	0.3170	0.3270
RC	0.4000	0.2760
S	0.8840	0.5700
SA	0.3330	0.3440
SB	0.3400	0.3710
SC	0.3330	0.3140
T	0.8820	0.5670
TA	0.4250	0.4120
TB	0.3330	0.3380
TC	0.3400	0.3610
U	0.8800	0.5670
UA	0.1270	0.2840
UB	0.4250	0.4200

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Chain	Atom inclusion	Q-score
UC	0.2830	0.3210
V	0.8800	0.5660
VB	0.1130	0.2420
VC	0.3830	0.4050
W	0.8740	0.5640
WA	0.4000	0.2670
WC	0.0850	0.2600
X	0.8710	0.5620
XA	0.3330	0.3100
XB	0.4000	0.2640
Y	0.8650	0.5600
YA	0.3400	0.3560
YB	0.3170	0.3150
YC	0.4000	0.2700
Z	0.8640	0.5580
ZA	0.3170	0.3400
ZB	0.3400	0.3630
ZC	0.3170	0.3110
a	0.8540	0.5530
aA	0.4470	0.4150
aB	0.3330	0.3400
aC	0.3190	0.3530
b	0.8440	0.5490
bA	0.1270	0.2840
bB	0.4250	0.4170
bC	0.2830	0.3240
c	0.8290	0.5450
cB	0.1270	0.2550
cC	0.3620	0.3930
d	0.8130	0.5410
dA	0.4000	0.2720
dC	0.0850	0.2390
e	0.7970	0.5340
eA	0.3170	0.2960
eB	0.4170	0.2700
f	0.7730	0.5260
fA	0.3400	0.3610
fB	0.3170	0.3160
fC	0.3830	0.2700
g	0.7170	0.5180
gA	0.3500	0.3470
gB	0.3400	0.3620

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Chain	Atom inclusion	Q-score
gC	0.3170	0.3010
h	0.0990	0.2790
hA	0.4250	0.4230
hB	0.3330	0.3270
hC	0.2980	0.3420
iA	0.1270	0.2660
iB	0.3830	0.4140
iC	0.2670	0.3170
j	0.4000	0.2670
jB	0.1270	0.2590
jC	0.3400	0.4020
k	0.3170	0.3070
kA	0.4000	0.2650
kC	0.0850	0.2230
l	0.3400	0.3510
lA	0.3170	0.3110
lB	0.4170	0.2710
m	0.3170	0.3290
mA	0.3400	0.3720
mB	0.3170	0.3040
mC	0.3670	0.2730
n	0.4040	0.4130
nA	0.3330	0.3570
nB	0.3400	0.3550
nC	0.3170	0.3080
o	0.1130	0.2630
oA	0.4040	0.4210
oB	0.3330	0.3220
oC	0.2980	0.3500
pA	0.1270	0.2630
pB	0.4250	0.4310
pC	0.2670	0.3300
q	0.3830	0.2690
qB	0.1130	0.2630
qC	0.3400	0.3960
r	0.3000	0.2950
rA	0.4170	0.2600
rC	0.0850	0.1990
s	0.3400	0.3510
sA	0.3170	0.3190
sB	0.4170	0.2670
t	0.3170	0.3300

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Chain	Atom inclusion	Q-score
tA	0.3400	0.3600
tB	0.3170	0.3060
tC	0.3500	0.2650
u	0.3620	0.4000
uA	0.3330	0.3460
uB	0.3400	0.3660
uC	0.3170	0.3180
v	0.1270	0.2810
vA	0.4680	0.4240
vB	0.3330	0.3390
vC	0.2770	0.3270
wA	0.1270	0.2510
wB	0.4250	0.4190
wC	0.2670	0.3100
x	0.4000	0.2640
xB	0.1130	0.2650
xC	0.3190	0.3790
y	0.3000	0.3060
yA	0.3830	0.2630
yC	0.0280	0.1730
z	0.3400	0.3490
zA	0.3330	0.3050
zB	0.4000	0.2660