



Full wwPDB EM Validation Report ⓘ

Apr 2, 2024 – 03:27 PM JST

PDB ID : 8WA2
EMDB ID : EMD-37389
Title : cryo-EM structure of native mastigonemes isolated from *Chlamydomonas reinhardtii* at 3.0 angstrom resolution
Authors : Huang, J.; Tao, H.; Chen, J.; Pan, J.; Yan, C.; Yan, N.
Deposited on : 2023-09-06
Resolution : 3.00 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:

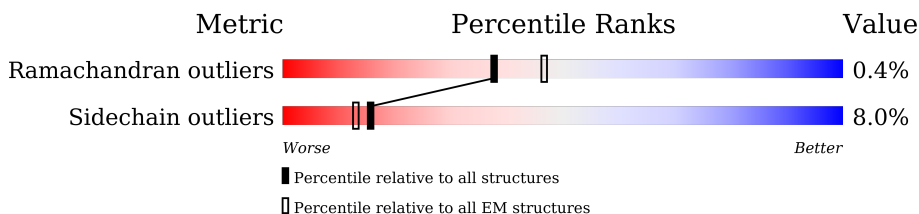
EMDB validation analysis : 0.0.1.dev70
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance

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

The reported resolution of this entry is 3.00 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	154571	4023
Sidechain outliers	154315	3826

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 $\leq 5\%$. 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	1987	
1	B	1987	
1	C	1987	
1	D	1987	
1	E	1987	
1	F	1987	
2	G	64	
2	H	64	
2	I	64	

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Mol	Chain	Length	Quality of chain
3	0	3	67% 33%
3	0A	3	67% 33%
3	1	3	67% 33%
3	2	3	67% 33%
3	8C	3	100%
3	9C	3	33% 67%
3	BC	3	33% 67%
3	CC	3	33% 67%
3	DD	3	67% 33%
3	EB	3	100% 67% 33%
3	ED	3	67% 33%
3	FD	3	67% 33%
3	GC	3	67% 33%
3	HA	3	33% 67%
3	HC	3	67% 33%
3	IA	3	67% 33%
3	IC	3	67% 33%
3	ID	3	67% 33%
3	J	3	100%
3	K	3	100%
3	KD	3	67% 33%
3	LB	3	100%
3	LC	3	100%
3	MA	3	100%
3	NA	3	33% 67%




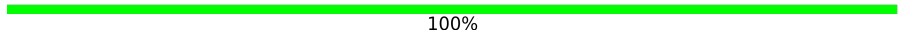
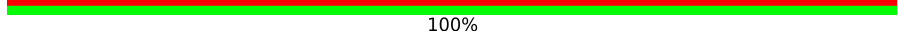

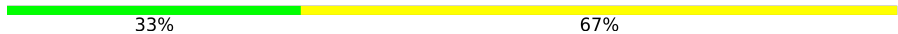
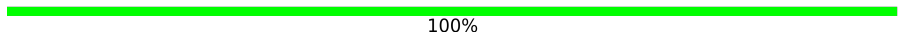
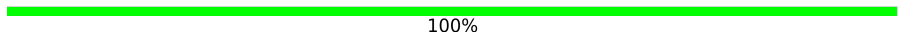
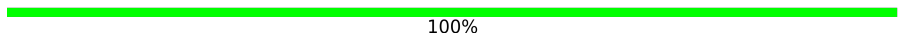

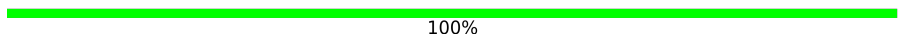

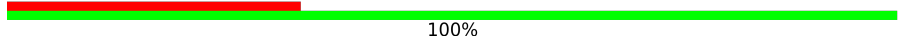

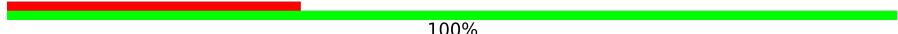



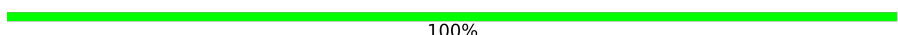

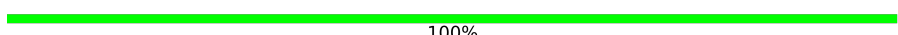



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Mol	Chain	Length	Quality of chain
3	NC	3	100%
3	O	3	67% 33%
3	OA	3	67% 33%
3	OB	3	100%
3	P	3	67% 33%
3	PB	3	33% 67% 33%
3	Q	3	67% 33%
3	QB	3	33% 67% 33%
3	QD	3	100%
3	RA	3	67% 33%
3	RB	3	67% 33% 67%
3	SB	3	100%
3	T	3	67% 33%
3	TA	3	33% 67%
3	TB	3	67% 33%
3	TC	3	100%
3	TD	3	100%
3	UB	3	67% 33%
3	V	3	67% 33%
3	WC	3	33% 67%
3	XA	3	33% 67% 33%
3	ZA	3	67% 33%
3	aD	3	33% 100%
3	b	3	67% 33%
3	bD	3	100%

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Mol	Chain	Length	Quality of chain
3	cA	3	 33% 67%
3	dC	3	 67% 33%
3	e	3	 67% 33%
3	eC	3	 100%
3	hB	3	 100%
3	iD	3	 67% 33%
3	jA	3	 33% 67%
3	kA	3	 100%
3	l	3	 100%
3	lC	3	 100%
3	lD	3	 67% 100%
3	m	3	 100%
3	mD	3	 33% 67% 33%
3	nD	3	 33% 100%
3	oB	3	 67% 33% 67%
3	oC	3	 33% 100%
3	oD	3	 33% 67% 33%
3	pC	3	 33% 67%
3	pD	3	 33% 67% 67%
3	qC	3	 100%
3	qD	3	 67% 100%
3	rA	3	 100%
3	rB	3	 67% 67% 33%
3	rC	3	 100%
3	rD	3	 67% 67% 33%

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Mol	Chain	Length	Quality of chain
3	sB	3	33% 100%
3	sC	3	100% 33% 67%
3	t	3	67% 33%
3	tB	3	33% 100%
3	tC	3	33% 67% 33%
3	uA	3	67% 33%
3	uB	3	67% 33%
3	uC	3	67% 67% 33%
3	vA	3	67% 33%
3	vB	3	33% 67% 33%
3	w	3	67% 33%
3	wA	3	67% 33%
3	wB	3	100%
3	x	3	33% 67%
3	xA	3	100%
3	xB	3	67% 33%
3	y	3	67% 33%
3	yA	3	67% 33%
3	z	3	67% 33%
3	zA	3	100%
4	AD	4	50% 50%
4	DC	4	50% 50%
4	JA	4	75% 25%
4	JB	4	50% 75% 25%
4	L	4	75% 25%

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Mol	Chain	Length	Quality of chain
4	LD	4	50% 50%
4	MD	4	100%
4	NB	4	50% 50%
4	OC	4	75% 25%
4	OD	4	50% 50%
4	PC	4	75% 25%
4	RC	4	75% 25%
4	RD	4	50% 50%
4	SD	4	50% 50%
4	UA	4	75% 25%
4	UC	4	100%
4	VA	4	75% 25%
4	VC	4	75% 25%
4	VD	4	50% 50%
4	W	4	75% 25%
4	X	4	75% 25%
4	YC	4	50% 50%
4	Z	4	25% 75%
4	ZD	4	25% 75% 25%
4	aA	4	100%
4	bA	4	100%
4	c	4	75% 25%
4	cC	4	50% 50%
4	d	4	25% 75%
4	eA	4	100%




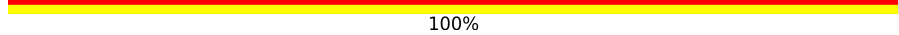
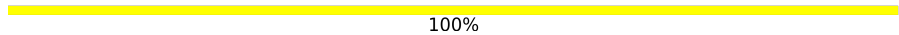
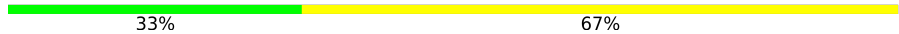
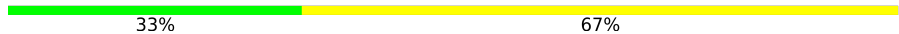
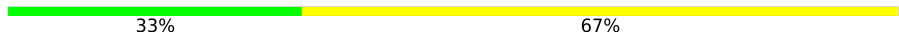
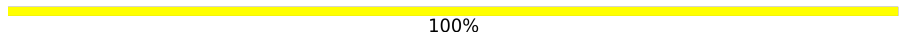
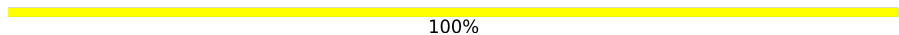
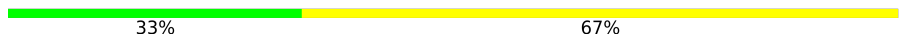
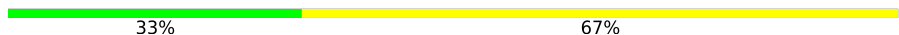
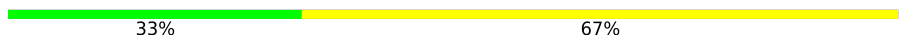
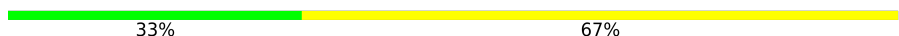
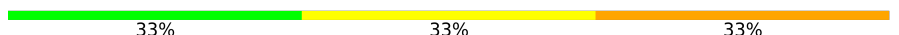

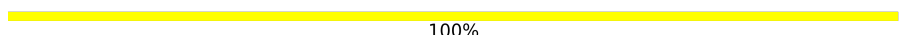


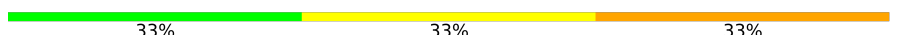

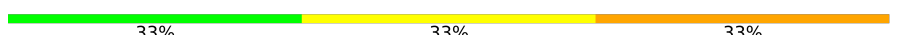



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Mol	Chain	Length	Quality of chain
4	g	4	75% 25%
4	gD	4	25% 50% 50%
4	iA	4	50% 50%
4	jC	4	75% 25%
4	k	4	100%
4	kD	4	25% 100%
4	mB	4	75% 50% 50%
4	nC	4	25% 50% 50%
4	pA	4	100%
4	qB	4	25% 75% 75%
4	r	4	100%
4	tA	4	50% 50%
4	v	4	75% 25%
5	BD	5	60% 40%
5	EC	5	40% 60%
5	KA	5	40% 60%
5	M	5	20% 80%
6	0B	3	33% 33% 33%
6	0C	3	33% 100% 67%
6	1C	3	67% 100% 33%
6	2C	3	33% 100% 67%
6	3A	3	67% 33%
6	3B	3	100%
6	3D	3	100%
6	4B	3	33% 67%

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Mol	Chain	Length	Quality of chain
6	5	3	 67% 33%
6	5B	3	 33% 67%
6	6A	3	 33% 67%
6	6C	3	 100% 100%
6	6D	3	 100%
6	7A	3	 33% 67%
6	7D	3	 33% 67%
6	8	3	 33% 67%
6	8A	3	 100%
6	8D	3	 100%
6	9	3	 33% 67%
6	9B	3	 33% 67%
6	AA	3	 33% 67%
6	CB	3	 33% 67%
6	CD	3	 33% 33% 33%
6	EA	3	 33% 67%
6	FC	3	 100%
6	GD	3	 33% 67%
6	JC	3	 33% 67%
6	LA	3	 33% 33% 33%
6	ME	3	 67% 33%
6	N	3	 33% 33% 33%
6	OE	3	 67% 33%
6	PA	3	 67% 33%
6	R	3	 33% 67%

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Mol	Chain	Length	Quality of chain
6	XB	3	33% 33% 33%
6	ZE	3	33% 67%
6	aB	3	33% 67%
6	bB	3	100%
6	bE	3	67% 33%
6	cB	3	100%
6	gB	3	67% 33%
6	mE	3	33% 67%
6	nE	3	33% 67%
6	oE	3	33% 67%
6	uD	3	100% 33% 33% 33%
6	xC	3	100% 67% 33%
6	xD	3	100% 33% 67%
6	yD	3	100%
6	zD	3	100% 33% 67%
7	HD	4	50% 50%
7	KC	4	50% 50%
7	QA	4	50% 50%
7	S	4	25% 75%
7	UD	4	75% 25%
7	WD	4	75% 25%
7	XC	4	75% 25%
7	ZC	4	75% 25%
7	dA	4	50% 50%
7	f	4	25% 75%

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Mol	Chain	Length	Quality of chain
7	fA	4	100%
7	h	4	75% 25%
8	JD	5	80% 20%
8	MC	5	40% 60%
8	SA	5	80% 20%
8	U	5	40% 60%
9	ND	2	50% 50%
9	QC	2	100%
9	WA	2	100%
9	Y	2	100%
9	YD	2	100%
9	bC	2	100%
9	hA	2	50% 50%
9	j	2	50% 50%
10	1A	5	20% 80%
10	3	5	40% 60%
10	MB	5	80% 40% 60%
10	PD	5	60% 40%
10	SC	5	80% 20%
10	VB	5	20% 60% 40%
10	YA	5	80% 20%
10	a	5	20% 80%
10	jD	5	20% 60% 40%
10	mC	5	40% 40% 60%
10	pB	5	100% 60% 40%

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Mol	Chain	Length	Quality of chain
10	sA	5	
10	sD	5	
10	u	5	
10	vC	5	
10	yB	5	
11	XD	3	
11	aC	3	
11	gA	3	
11	i	3	
12	FB	5	
12	IB	5	
12	cD	5	
12	fC	5	
12	fD	5	
12	iB	5	
12	iC	5	
12	lA	5	
12	lB	5	
12	n	5	
12	oA	5	
12	q	5	
13	0D	4	
13	1B	4	
13	2A	4	
13	2B	4	

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Mol	Chain	Length	Quality of chain
13	3C	4	
13	4	4	
13	4A	4	
13	5A	4	
13	6	4	
13	6B	4	
13	7	4	
13	9A	4	
13	BA	4	
13	GB	4	
13	WB	4	
13	YB	4	
13	ZB	4	
13	dB	4	
13	dD	4	
13	gC	4	
13	jB	4	
13	mA	4	
13	o	4	
13	tD	4	
13	vD	4	
13	wC	4	
13	wD	4	
13	yC	4	
13	zB	4	

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Mol	Chain	Length	Quality of chain
13	zC	4	100% 25% 75%
14	HB	4	100% 50% 25% 25%
14	KB	4	100% 50% 25% 25%
14	eD	4	50% 25% 25%
14	hC	4	50% 25% 25%
14	hD	4	25% 50% 25%
14	kB	4	100% 25% 50% 25%
14	kC	4	50% 25% 25%
14	nA	4	75% 25%
14	nB	4	75% 25% 50% 25%
14	p	4	50% 25% 25%
14	qA	4	75% 25%
14	s	4	75% 25%
15	1D	5	100% 40% 60%
15	2D	5	100% 40% 60%
15	4C	5	100% 40% 60%
15	5C	5	100% 20% 80%
15	7B	5	60% 40%
15	8B	5	40% 60%
15	AB	5	20% 80%
15	BB	5	40% 60%
15	CA	5	40% 60%
15	DA	5	20% 80%
15	eB	5	40% 60%
15	fB	5	40% 60%

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Mol	Chain	Length	Quality of chain
16	4D	2	50%
16	AC	2	100%
16	FA	2	50%
17	5D	6	50%
17	7C	6	50%
17	DB	6	17% 83%
17	GA	6	50%
18	0E	5	60% 40%
18	9D	5	20% 80%
18	BE	5	20% 40% 60%
18	DE	5	20% 40% 60%
18	IE	5	20% 80%
18	JE	5	40% 60%
18	KE	5	60% 40%
18	PE	5	60% 40%
18	SE	5	60% 40%
18	cE	5	60% 40%
18	fE	5	40% 60%
18	pE	5	100%
18	rE	5	20% 40% 60%
18	tE	5	40% 60%
18	yE	5	20% 40% 60%
18	zE	5	20% 60% 40%
19	1E	4	50% 100%
19	AE	4	50% 50%





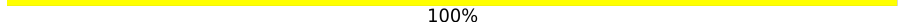
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Mol	Chain	Length	Quality of chain
19	LE	4	
19	NE	4	
19	aE	4	
19	qE	4	
20	CE	4	
20	EE	4	
20	HE	4	
20	TE	4	
20	UE	4	
20	WE	4	
20	gE	4	
20	hE	4	
20	jE	4	
20	sE	4	
20	uE	4	
20	xE	4	
21	FE	5	
21	kE	5	
21	vE	5	
22	GE	6	
22	QE	6	
22	RE	6	
22	VE	6	
22	dE	6	
22	eE	6	

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Mol	Chain	Length	Quality of chain
22	iE	6	
22	wE	6	
23	XE	6	
24	YE	6	
24	lE	6	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
10	AHR	1A	4	X	-	-	-
10	AHR	3	4	X	-	-	-
10	AHR	VB	4	X	-	-	-
10	AHR	sD	4	X	-	-	-
10	AHR	vC	4	X	-	-	-
10	AHR	yB	4	X	-	-	-
12	GZL	FB	3	X	-	-	-
12	GZL	IB	3	X	-	-	-
12	GZL	cD	3	X	-	-	-
12	GZL	fC	3	X	-	-	-
12	GZL	fD	3	X	-	-	-
12	GZL	iB	3	X	-	-	-
12	GZL	iC	3	X	-	-	-
12	GZL	lA	3	X	-	-	-
12	GZL	lB	3	X	-	-	-
12	GZL	n	3	X	-	-	-
12	GZL	oA	3	X	-	-	-
12	GZL	q	3	X	-	-	-
12	AHR	q	5	X	-	-	-
13	FUB	0D	2	X	-	-	-
13	GZL	1B	3	X	-	-	-
13	GZL	2A	3	X	-	-	-
13	GZL	2B	3	X	-	-	-
13	FUB	3C	2	X	-	-	-
13	GZL	4	3	X	X	-	-
13	GZL	4A	3	X	-	-	-
13	GZL	5A	3	X	-	-	-
13	GZL	6	3	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	FUB	6B	2	X	-	-	-
13	GZL	7	3	X	-	-	-
13	FUB	9A	2	X	-	-	-
13	FUB	BA	2	X	-	-	-
13	GZL	GB	3	X	-	-	-
13	GZL	WB	3	X	-	-	-
13	GZL	YB	3	X	-	-	-
13	GZL	ZB	3	X	-	-	-
13	FUB	dB	2	X	-	-	-
13	GZL	dD	3	X	-	-	-
13	GZL	gC	3	X	-	-	-
13	GZL	jB	3	X	-	-	-
13	GZL	mA	3	X	-	-	-
13	GZL	o	3	X	-	-	-
13	GZL	tD	3	X	-	-	-
13	GZL	vD	3	X	-	-	-
13	GZL	wC	3	X	-	-	-
13	GZL	wD	3	X	-	-	-
13	GZL	yC	3	X	-	-	-
13	GZL	zB	3	X	-	-	-
13	GZL	zC	3	X	-	-	-
14	GZL	HB	3	X	-	-	-
14	GZL	KB	3	X	-	-	-
14	GZL	eD	3	X	-	-	-
14	GZL	hC	3	X	-	-	-
14	GZL	hD	3	X	-	-	-
14	GZL	kB	3	X	-	-	-
14	GZL	kC	3	X	-	-	-
14	GZL	nA	3	X	-	-	-
14	GZL	nB	3	X	-	-	-
14	GZL	p	3	X	-	-	-
14	GZL	qA	3	X	-	-	-
14	GZL	s	3	X	-	-	-
15	GZL	1D	3	X	-	-	-
15	AHR	1D	5	X	-	-	-
15	GZL	2D	3	X	-	-	-
15	GZL	4C	3	X	-	-	-
15	AHR	4C	5	X	-	-	-
15	GZL	5C	3	X	-	-	-
15	GZL	7B	3	X	-	-	-
15	AHR	7B	5	X	-	-	-
15	GZL	8B	3	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
15	GZL	AB	3	X	-	-	-
15	AHR	AB	5	X	-	-	-
15	GZL	BB	3	X	-	-	-
15	GZL	CA	3	X	-	-	-
15	AHR	CA	5	X	-	-	-
15	GZL	DA	3	X	-	-	-
15	GZL	eB	3	X	-	-	-
15	AHR	eB	5	X	-	-	-
15	GZL	fB	3	X	-	-	-
17	MAN	5D	4	X	-	-	-
17	MAN	5D	6	X	-	-	-
17	MAN	7C	4	X	-	-	-
17	MAN	7C	6	X	-	-	-
17	MAN	DB	4	X	-	-	-
17	MAN	DB	6	X	-	-	-
17	MAN	GA	4	X	-	-	-
17	MAN	GA	6	X	-	-	-
18	GZL	0E	3	X	-	-	-
18	AHR	0E	4	X	-	-	-
18	AHR	0E	5	X	-	-	-
18	GZL	9D	3	X	-	-	-
18	AHR	9D	4	X	-	-	-
18	GZL	BE	3	X	-	-	-
18	AHR	BE	4	X	-	-	-
18	AHR	BE	5	X	-	-	-
18	GZL	DE	3	X	-	-	-
18	AHR	DE	5	X	-	-	-
18	GZL	IE	3	X	-	-	-
18	AHR	IE	4	X	-	-	-
18	GZL	JE	3	X	-	-	-
18	AHR	JE	5	X	-	-	-
18	GZL	KE	3	X	-	-	-
18	AHR	KE	4	X	-	-	-
18	AHR	KE	5	X	-	-	-
18	GZL	PE	3	X	-	-	-
18	AHR	PE	4	X	-	-	-
18	AHR	PE	5	X	-	-	-
18	FUB	SE	1	X	-	-	-
18	GZL	SE	3	X	-	-	-
18	AHR	SE	4	X	-	-	-
18	AHR	SE	5	X	-	-	-
18	GZL	cE	3	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
18	AHR	cE	4	X	-	-	-
18	AHR	cE	5	X	-	-	-
18	FUB	fE	1	X	-	-	-
18	GZL	fE	3	X	-	-	-
18	AHR	fE	4	X	-	-	-
18	AHR	fE	5	X	-	-	-
18	GZL	pE	3	X	-	-	-
18	AHR	pE	4	X	-	-	-
18	GZL	rE	3	X	-	-	-
18	AHR	rE	4	X	-	-	-
18	AHR	rE	5	X	-	-	-
18	GZL	tE	3	X	-	-	-
18	AHR	tE	5	X	-	-	-
18	GZL	yE	3	X	-	-	-
18	AHR	yE	4	X	-	-	-
18	GZL	zE	3	X	-	-	-
18	AHR	zE	5	X	-	-	-
19	GZL	1E	3	X	-	-	-
19	AHR	1E	4	X	-	-	-
19	GZL	AE	3	X	-	-	-
19	GZL	LE	3	X	-	-	-
19	AHR	LE	4	X	-	-	-
19	GZL	NE	3	X	-	-	-
19	AHR	NE	4	X	-	-	-
19	GZL	aE	3	X	-	-	-
19	AHR	aE	4	X	-	-	-
19	GZL	qE	3	X	-	-	-
2	HYP	G	23	X	-	-	-
2	HYP	G	26	X	-	-	-
2	HYP	I	23	X	-	-	-
2	HYP	I	26	X	-	-	-
20	GZL	CE	3	X	-	-	-
20	GZL	EE	3	X	-	-	-
20	GZL	HE	3	X	-	-	-
20	GZL	TE	3	X	-	-	-
20	AHR	TE	4	X	-	-	-
20	GZL	UE	3	X	-	-	-
20	GZL	WE	3	X	-	-	-
20	AHR	WE	4	X	-	-	-
20	GZL	gE	3	X	-	-	-
20	AHR	gE	4	X	-	-	-
20	GZL	hE	3	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
20	GZL	jE	3	X	-	-	-
20	AHR	jE	4	X	-	-	-
20	GZL	sE	3	X	-	-	-
20	GZL	uE	3	X	-	-	-
20	GZL	xE	3	X	-	-	-
21	GZL	FE	3	X	-	-	-
21	AHR	FE	4	X	-	-	-
21	AHR	FE	5	X	-	-	-
21	GZL	kE	3	X	-	-	-
21	AHR	kE	4	X	-	-	-
21	GZL	vE	3	X	-	-	-
21	AHR	vE	4	X	-	-	-
21	AHR	vE	5	X	-	-	-
22	GZL	GE	3	X	-	-	-
22	GZL	QE	3	X	-	-	-
22	AHR	QE	4	X	-	-	-
22	AHR	QE	6	X	-	-	-
22	GZL	RE	3	X	-	-	-
22	AHR	RE	4	X	-	-	-
22	GZL	VE	3	X	-	-	-
22	AHR	VE	4	X	-	-	-
22	GZL	dE	3	X	-	-	-
22	AHR	dE	4	X	-	-	-
22	AHR	dE	6	X	-	-	-
22	GZL	eE	3	X	-	-	-
22	AHR	eE	4	X	-	-	-
22	GZL	iE	3	X	-	-	-
22	AHR	iE	4	X	-	-	-
22	GZL	wE	3	X	-	-	-
23	GZL	XE	3	X	-	-	-
23	AHR	XE	4	X	-	-	-
23	AHR	XE	5	X	-	-	-
24	GZL	YE	3	X	-	-	-
24	AHR	YE	4	X	-	-	-
24	GZL	lE	3	X	-	-	-
24	AHR	lE	4	X	-	-	-
27	GLA	A	2007	X	-	-	-
27	GLA	B	2008	X	-	-	-
27	GLA	B	2014	X	-	-	-
27	GLA	E	2007	X	-	-	-
27	GLA	F	2009	X	-	-	-
3	FUB	XA	2	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	FUB	AD	1	X	-	-	-
4	FUB	DC	1	X	-	-	-
4	FUB	JA	1	X	-	-	-
4	FUB	L	1	X	-	-	-
4	FUB	OD	2	X	-	-	-
4	AHR	PC	4	X	-	-	-
4	FUB	RC	2	X	-	-	-
4	AHR	VA	4	X	-	-	-
4	FUB	Z	2	X	-	-	-
5	AHR	BD	5	X	-	-	-
6	GZL	0B	3	X	-	-	-
6	GZL	1C	3	X	-	-	-
6	FUB	2C	2	X	-	-	-
6	GZL	2C	3	X	-	-	-
6	GZL	3A	3	X	-	-	-
6	GZL	3D	3	X	-	-	-
6	GZL	4B	3	X	-	-	-
6	GZL	5	3	X	-	-	-
6	FUB	5B	2	X	-	-	-
6	GZL	5B	3	X	-	-	-
6	GZL	6C	3	X	-	-	-
6	GZL	6D	3	X	-	-	-
6	GZL	7A	3	X	-	-	-
6	GZL	7D	3	X	-	-	-
6	GZL	8	3	X	-	-	-
6	FUB	8A	2	X	-	-	-
6	GZL	8A	3	X	-	-	-
6	GZL	8D	3	X	-	-	-
6	GZL	9	3	X	-	-	-
6	GZL	9B	3	X	-	-	-
6	FUB	AA	2	X	-	-	-
6	GZL	AA	3	X	-	-	-
6	GZL	CB	3	X	-	-	-
6	GZL	CD	3	X	-	-	-
6	GZL	EA	3	X	-	-	-
6	GZL	FC	3	X	-	-	-
6	GZL	GD	3	X	-	-	-
6	GZL	JC	3	X	-	-	-
6	GZL	LA	3	X	-	-	-
6	GZL	ME	3	X	-	-	-
6	GZL	N	3	X	-	-	-
6	GZL	OE	3	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	GZL	PA	3	X	-	-	-
6	GZL	R	3	X	-	-	-
6	GZL	XB	3	X	-	-	-
6	GZL	ZE	3	X	-	-	-
6	GZL	bB	3	X	-	-	-
6	GZL	bE	3	X	-	-	-
6	FUB	cB	2	X	-	-	-
6	GZL	cB	3	X	-	-	-
6	GZL	gB	3	X	-	-	-
6	GZL	mE	3	X	-	-	-
6	GZL	nE	3	X	-	-	-
6	GZL	oE	3	X	-	-	-
6	GZL	uD	3	X	-	-	-
6	GZL	xC	3	X	-	-	-
6	GZL	yD	3	X	-	-	-
6	FUB	zD	2	X	-	-	-
6	GZL	zD	3	X	-	-	-

2 Entry composition i

There are 28 unique types of molecules in this entry. The entry contains 85288 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.

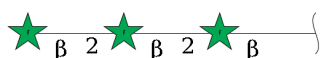
- Molecule 1 is a protein called Mst1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1907	13862	8723	2261	2797	81	0	0
1	B	1907	13862	8723	2261	2797	81	0	0
1	C	1494	10840	6862	1753	2179	46	0	0
1	D	1566	11377	7199	1841	2286	51	0	0
1	E	1449	10491	6595	1712	2105	79	0	0
1	F	1443	10455	6573	1705	2098	79	0	0

- Molecule 2 is a protein called Mstax.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	G	64	438	269	65	104	0	0
2	H	30	201	125	30	46	0	0
2	I	34	238	145	35	58	0	0

- Molecule 3 is an oligosaccharide called beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
3	J	3	27	15	12	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
3	K	3	Total	C	O	0	0
			27	15	12		
3	O	3	Total	C	O	0	0
			27	15	12		
3	P	3	Total	C	O	0	0
			27	15	12		
3	Q	3	Total	C	O	0	0
			27	15	12		
3	T	3	Total	C	O	0	0
			27	15	12		
3	V	3	Total	C	O	0	0
			27	15	12		
3	b	3	Total	C	O	0	0
			27	15	12		
3	e	3	Total	C	O	0	0
			27	15	12		
3	l	3	Total	C	O	0	0
			27	15	12		
3	m	3	Total	C	O	0	0
			27	15	12		
3	t	3	Total	C	O	0	0
			27	15	12		
3	w	3	Total	C	O	0	0
			27	15	12		
3	x	3	Total	C	O	0	0
			27	15	12		
3	y	3	Total	C	O	0	0
			27	15	12		
3	z	3	Total	C	O	0	0
			27	15	12		
3	0	3	Total	C	O	0	0
			27	15	12		
3	1	3	Total	C	O	0	0
			27	15	12		
3	2	3	Total	C	O	0	0
			27	15	12		
3	HA	3	Total	C	O	0	0
			27	15	12		
3	IA	3	Total	C	O	0	0
			27	15	12		
3	MA	3	Total	C	O	0	0
			27	15	12		

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Mol	Chain	Residues	Atoms			AltConf	Trace
3	NA	3	Total	C	O	0	0
			27	15	12		
3	OA	3	Total	C	O	0	0
			27	15	12		
3	RA	3	Total	C	O	0	0
			27	15	12		
3	TA	3	Total	C	O	0	0
			27	15	12		
3	XA	3	Total	C	O	0	0
			27	15	12		
3	ZA	3	Total	C	O	0	0
			27	15	12		
3	cA	3	Total	C	O	0	0
			27	15	12		
3	jA	3	Total	C	O	0	0
			27	15	12		
3	kA	3	Total	C	O	0	0
			27	15	12		
3	rA	3	Total	C	O	0	0
			27	15	12		
3	uA	3	Total	C	O	0	0
			27	15	12		
3	vA	3	Total	C	O	0	0
			27	15	12		
3	wA	3	Total	C	O	0	0
			27	15	12		
3	xA	3	Total	C	O	0	0
			27	15	12		
3	yA	3	Total	C	O	0	0
			27	15	12		
3	zA	3	Total	C	O	0	0
			27	15	12		
3	0A	3	Total	C	O	0	0
			27	15	12		
3	EB	3	Total	C	O	0	0
			27	15	12		
3	LB	3	Total	C	O	0	0
			27	15	12		
3	OB	3	Total	C	O	0	0
			27	15	12		
3	PB	3	Total	C	O	0	0
			27	15	12		

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Mol	Chain	Residues	Atoms			AltConf	Trace
3	QB	3	Total	C	O	0	0
			27	15	12		
3	RB	3	Total	C	O	0	0
			27	15	12		
3	SB	3	Total	C	O	0	0
			27	15	12		
3	TB	3	Total	C	O	0	0
			27	15	12		
3	UB	3	Total	C	O	0	0
			27	15	12		
3	hB	3	Total	C	O	0	0
			27	15	12		
3	oB	3	Total	C	O	0	0
			27	15	12		
3	rB	3	Total	C	O	0	0
			27	15	12		
3	sB	3	Total	C	O	0	0
			27	15	12		
3	tB	3	Total	C	O	0	0
			27	15	12		
3	uB	3	Total	C	O	0	0
			27	15	12		
3	vB	3	Total	C	O	0	0
			27	15	12		
3	wB	3	Total	C	O	0	0
			27	15	12		
3	xB	3	Total	C	O	0	0
			27	15	12		
3	BC	3	Total	C	O	0	0
			27	15	12		
3	CC	3	Total	C	O	0	0
			27	15	12		
3	GC	3	Total	C	O	0	0
			27	15	12		
3	HC	3	Total	C	O	0	0
			27	15	12		
3	IC	3	Total	C	O	0	0
			27	15	12		
3	LC	3	Total	C	O	0	0
			27	15	12		
3	NC	3	Total	C	O	0	0
			27	15	12		

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Mol	Chain	Residues	Atoms			AltConf	Trace
3	TC	3	Total	C	O	0	0
			27	15	12		
3	WC	3	Total	C	O	0	0
			27	15	12		
3	dC	3	Total	C	O	0	0
			27	15	12		
3	eC	3	Total	C	O	0	0
			27	15	12		
3	lC	3	Total	C	O	0	0
			27	15	12		
3	oC	3	Total	C	O	0	0
			27	15	12		
3	pC	3	Total	C	O	0	0
			27	15	12		
3	qC	3	Total	C	O	0	0
			27	15	12		
3	rC	3	Total	C	O	0	0
			27	15	12		
3	sC	3	Total	C	O	0	0
			27	15	12		
3	tC	3	Total	C	O	0	0
			27	15	12		
3	uC	3	Total	C	O	0	0
			27	15	12		
3	8C	3	Total	C	O	0	0
			27	15	12		
3	9C	3	Total	C	O	0	0
			27	15	12		
3	DD	3	Total	C	O	0	0
			27	15	12		
3	ED	3	Total	C	O	0	0
			27	15	12		
3	FD	3	Total	C	O	0	0
			27	15	12		
3	ID	3	Total	C	O	0	0
			27	15	12		
3	KD	3	Total	C	O	0	0
			27	15	12		
3	QD	3	Total	C	O	0	0
			27	15	12		
3	TD	3	Total	C	O	0	0
			27	15	12		

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Mol	Chain	Residues	Atoms			AltConf	Trace
3	aD	3	Total	C	O	0	0
			27	15	12		
3	bD	3	Total	C	O	0	0
			27	15	12		
3	iD	3	Total	C	O	0	0
			27	15	12		
3	lD	3	Total	C	O	0	0
			27	15	12		
3	mD	3	Total	C	O	0	0
			27	15	12		
3	nD	3	Total	C	O	0	0
			27	15	12		
3	oD	3	Total	C	O	0	0
			27	15	12		
3	pD	3	Total	C	O	0	0
			27	15	12		
3	qD	3	Total	C	O	0	0
			27	15	12		
3	rD	3	Total	C	O	0	0
			27	15	12		

- Molecule 4 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
4	L	4	Total	C	O	0	0
			36	20	16		
4	W	4	Total	C	O	0	0
			36	20	16		
4	X	4	Total	C	O	0	0
			36	20	16		
4	Z	4	Total	C	O	0	0
			36	20	16		
4	c	4	Total	C	O	0	0
			36	20	16		
4	d	4	Total	C	O	0	0
			36	20	16		
4	g	4	Total	C	O	0	0
			36	20	16		

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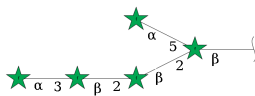
Mol	Chain	Residues	Atoms			AltConf	Trace
4	k	4	Total 36	C 20	O 16	0	0
4	r	4	Total 36	C 20	O 16	0	0
4	v	4	Total 36	C 20	O 16	0	0
4	JA	4	Total 36	C 20	O 16	0	0
4	UA	4	Total 36	C 20	O 16	0	0
4	VA	4	Total 36	C 20	O 16	0	0
4	aA	4	Total 36	C 20	O 16	0	0
4	bA	4	Total 36	C 20	O 16	0	0
4	eA	4	Total 36	C 20	O 16	0	0
4	iA	4	Total 36	C 20	O 16	0	0
4	pA	4	Total 36	C 20	O 16	0	0
4	tA	4	Total 36	C 20	O 16	0	0
4	JB	4	Total 36	C 20	O 16	0	0
4	NB	4	Total 36	C 20	O 16	0	0
4	mB	4	Total 36	C 20	O 16	0	0
4	qB	4	Total 36	C 20	O 16	0	0
4	DC	4	Total 36	C 20	O 16	0	0
4	OC	4	Total 36	C 20	O 16	0	0
4	PC	4	Total 36	C 20	O 16	0	0
4	RC	4	Total 36	C 20	O 16	0	0
4	UC	4	Total 36	C 20	O 16	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
4	VC	4	36	20	16	0	0
4	YC	4	36	20	16	0	0
4	cC	4	36	20	16	0	0
4	jC	4	36	20	16	0	0
4	nC	4	36	20	16	0	0
4	AD	4	36	20	16	0	0
4	LD	4	36	20	16	0	0
4	MD	4	36	20	16	0	0
4	OD	4	36	20	16	0	0
4	RD	4	36	20	16	0	0
4	SD	4	36	20	16	0	0
4	VD	4	36	20	16	0	0
4	ZD	4	36	20	16	0	0
4	gD	4	36	20	16	0	0
4	kD	4	36	20	16	0	0

- Molecule 5 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose.



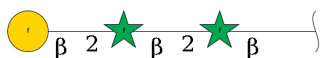
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
5	M	5	45	25	20	0	0
5	KA	5	45	25	20	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
5	EC	5	Total	C	O	0	0
			45	25	20		
5	BD	5	Total	C	O	0	0
			45	25	20		

- Molecule 6 is an oligosaccharide called beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
6	N	3	Total	C	O	0	0
			29	16	13		
6	R	3	Total	C	O	0	0
			29	16	13		
6	5	3	Total	C	O	0	0
			29	16	13		
6	8	3	Total	C	O	0	0
			29	16	13		
6	9	3	Total	C	O	0	0
			29	16	13		
6	AA	3	Total	C	O	0	0
			29	16	13		
6	EA	3	Total	C	O	0	0
			29	16	13		
6	LA	3	Total	C	O	0	0
			29	16	13		
6	PA	3	Total	C	O	0	0
			29	16	13		
6	3A	3	Total	C	O	0	0
			29	16	13		
6	6A	3	Total	C	O	0	0
			29	16	13		
6	7A	3	Total	C	O	0	0
			29	16	13		
6	8A	3	Total	C	O	0	0
			29	16	13		
6	CB	3	Total	C	O	0	0
			29	16	13		
6	XB	3	Total	C	O	0	0
			29	16	13		

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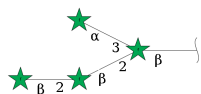
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
6	aB	3	29	16	13	0	0
6	bB	3	29	16	13	0	0
6	cB	3	29	16	13	0	0
6	gB	3	29	16	13	0	0
6	0B	3	29	16	13	0	0
6	3B	3	29	16	13	0	0
6	4B	3	29	16	13	0	0
6	5B	3	29	16	13	0	0
6	9B	3	29	16	13	0	0
6	FC	3	29	16	13	0	0
6	JC	3	29	16	13	0	0
6	xC	3	29	16	13	0	0
6	0C	3	29	16	13	0	0
6	1C	3	29	16	13	0	0
6	2C	3	29	16	13	0	0
6	6C	3	29	16	13	0	0
6	CD	3	29	16	13	0	0
6	GD	3	29	16	13	0	0
6	uD	3	29	16	13	0	0
6	xD	3	29	16	13	0	0
6	yD	3	29	16	13	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
6	zD	3	29	16	13	0	0
6	3D	3	29	16	13	0	0
6	6D	3	29	16	13	0	0
6	7D	3	29	16	13	0	0
6	8D	3	29	16	13	0	0
6	ME	3	29	16	13	0	0
6	OE	3	29	16	13	0	0
6	ZE	3	29	16	13	0	0
6	bE	3	29	16	13	0	0
6	mE	3	29	16	13	0	0
6	nE	3	29	16	13	0	0
6	oE	3	29	16	13	0	0

- Molecule 7 is an oligosaccharide called beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



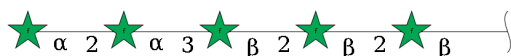
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
7	S	4	36	20	16	0	0
7	f	4	36	20	16	0	0
7	h	4	36	20	16	0	0
7	QA	4	36	20	16	0	0
7	dA	4	36	20	16	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
7	fA	4	Total	C	O	0	0
			36	20	16		
7	KC	4	Total	C	O	0	0
			36	20	16		
7	XC	4	Total	C	O	0	0
			36	20	16		
7	ZC	4	Total	C	O	0	0
			36	20	16		
7	HD	4	Total	C	O	0	0
			36	20	16		
7	UD	4	Total	C	O	0	0
			36	20	16		
7	WD	4	Total	C	O	0	0
			36	20	16		

- Molecule 8 is an oligosaccharide called alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
8	U	5	Total	C	O	0	0
			45	25	20		
8	SA	5	Total	C	O	0	0
			45	25	20		
8	MC	5	Total	C	O	0	0
			45	25	20		
8	JD	5	Total	C	O	0	0
			45	25	20		

- Molecule 9 is an oligosaccharide called beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



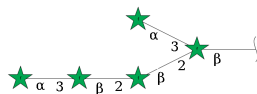
Mol	Chain	Residues	Atoms			AltConf	Trace
9	Y	2	Total	C	O	0	0
			18	10	8		

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Mol	Chain	Residues	Atoms			AltConf	Trace
9	j	2	Total	C	O	0	0
			18	10	8		
9	WA	2	Total	C	O	0	0
			18	10	8		
9	hA	2	Total	C	O	0	0
			18	10	8		
9	QC	2	Total	C	O	0	0
			18	10	8		
9	bC	2	Total	C	O	0	0
			18	10	8		
9	ND	2	Total	C	O	0	0
			18	10	8		
9	YD	2	Total	C	O	0	0
			18	10	8		

- Molecule 10 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



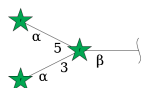
Mol	Chain	Residues	Atoms			AltConf	Trace
10	a	5	Total	C	O	0	0
			45	25	20		
10	u	5	Total	C	O	0	0
			45	25	20		
10	3	5	Total	C	O	0	0
			45	25	20		
10	YA	5	Total	C	O	0	0
			45	25	20		
10	sA	5	Total	C	O	0	0
			45	25	20		
10	1A	5	Total	C	O	0	0
			45	25	20		
10	MB	5	Total	C	O	0	0
			45	25	20		
10	VB	5	Total	C	O	0	0
			45	25	20		
10	pB	5	Total	C	O	0	0
			45	25	20		

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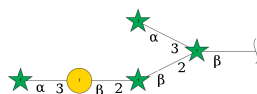
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
10	yB	5	45	25	20	0	0
10	SC	5	45	25	20	0	0
10	mC	5	45	25	20	0	0
10	vC	5	45	25	20	0	0
10	PD	5	45	25	20	0	0
10	jD	5	45	25	20	0	0
10	sD	5	45	25	20	0	0

- Molecule 11 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
11	i	3	27	15	12	0	0
11	gA	3	27	15	12	0	0
11	aC	3	27	15	12	0	0
11	XD	3	27	15	12	0	0

- Molecule 12 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
12	n	5	Total	C	O	0	0
			47	26	21		
12	q	5	Total	C	O	0	0
			47	26	21		
12	lA	5	Total	C	O	0	0
			47	26	21		
12	oA	5	Total	C	O	0	0
			47	26	21		
12	FB	5	Total	C	O	0	0
			47	26	21		
12	IB	5	Total	C	O	0	0
			47	26	21		
12	iB	5	Total	C	O	0	0
			47	26	21		
12	lB	5	Total	C	O	0	0
			47	26	21		
12	fC	5	Total	C	O	0	0
			47	26	21		
12	iC	5	Total	C	O	0	0
			47	26	21		
12	cD	5	Total	C	O	0	0
			47	26	21		
12	fD	5	Total	C	O	0	0
			47	26	21		

- Molecule 13 is an oligosaccharide called alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
13	o	4	Total	C	O	0	0
			38	21	17		
13	4	4	Total	C	O	0	0
			38	21	17		
13	6	4	Total	C	O	0	0
			38	21	17		
13	7	4	Total	C	O	0	0
			38	21	17		
13	BA	4	Total	C	O	0	0
			38	21	17		

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Mol	Chain	Residues	Atoms			AltConf	Trace
13	mA	4	Total 38	C 21	O 17	0	0
13	2A	4	Total 38	C 21	O 17	0	0
13	4A	4	Total 38	C 21	O 17	0	0
13	5A	4	Total 38	C 21	O 17	0	0
13	9A	4	Total 38	C 21	O 17	0	0
13	GB	4	Total 38	C 21	O 17	0	0
13	WB	4	Total 38	C 21	O 17	0	0
13	YB	4	Total 38	C 21	O 17	0	0
13	ZB	4	Total 38	C 21	O 17	0	0
13	dB	4	Total 38	C 21	O 17	0	0
13	jB	4	Total 38	C 21	O 17	0	0
13	zB	4	Total 38	C 21	O 17	0	0
13	1B	4	Total 38	C 21	O 17	0	0
13	2B	4	Total 38	C 21	O 17	0	0
13	6B	4	Total 38	C 21	O 17	0	0
13	gC	4	Total 38	C 21	O 17	0	0
13	wC	4	Total 38	C 21	O 17	0	0
13	yC	4	Total 38	C 21	O 17	0	0
13	zC	4	Total 38	C 21	O 17	0	0
13	3C	4	Total 38	C 21	O 17	0	0
13	dD	4	Total 38	C 21	O 17	0	0

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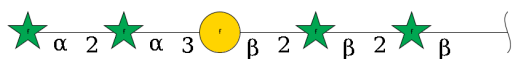
Mol	Chain	Residues	Atoms			AltConf	Trace
13	tD	4	Total	C	O	0	0
			38	21	17		
13	vD	4	Total	C	O	0	0
			38	21	17		
13	wD	4	Total	C	O	0	0
			38	21	17		
13	0D	4	Total	C	O	0	0
			38	21	17		

- Molecule 14 is an oligosaccharide called beta-L-arabinofuranose-(1-5)-beta-D-galactofuranos e-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
14	p	4	Total	C	O	0	0
			38	21	17		
14	s	4	Total	C	O	0	0
			38	21	17		
14	nA	4	Total	C	O	0	0
			38	21	17		
14	qA	4	Total	C	O	0	0
			38	21	17		
14	HB	4	Total	C	O	0	0
			38	21	17		
14	KB	4	Total	C	O	0	0
			38	21	17		
14	kB	4	Total	C	O	0	0
			38	21	17		
14	nB	4	Total	C	O	0	0
			38	21	17		
14	hC	4	Total	C	O	0	0
			38	21	17		
14	kC	4	Total	C	O	0	0
			38	21	17		
14	eD	4	Total	C	O	0	0
			38	21	17		
14	hD	4	Total	C	O	0	0
			38	21	17		

- Molecule 15 is an oligosaccharide called alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
15	CA	5	47	26	21	0	0
15	DA	5	47	26	21	0	0
15	AB	5	47	26	21	0	0
15	BB	5	47	26	21	0	0
15	eB	5	47	26	21	0	0
15	fB	5	47	26	21	0	0
15	7B	5	47	26	21	0	0
15	8B	5	47	26	21	0	0
15	4C	5	47	26	21	0	0
15	5C	5	47	26	21	0	0
15	1D	5	47	26	21	0	0
15	2D	5	47	26	21	0	0

- Molecule 16 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



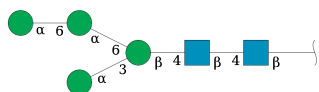
Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
16	FA	2	28	16	2	10	0	0

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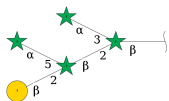
Mol	Chain	Residues	Atoms			AltConf	Trace	
			Total	C	N			O
16	AC	2	28	16	2	10	0	0
16	4D	2	28	16	2	10	0	0

- Molecule 17 is an oligosaccharide called alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms			AltConf	Trace	
			Total	C	N			O
17	GA	6	72	40	2	30	0	0
17	DB	6	72	40	2	30	0	0
17	7C	6	72	40	2	30	0	0
17	5D	6	72	40	2	30	0	0

- Molecule 18 is an oligosaccharide called beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



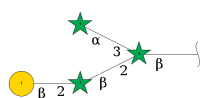
Mol	Chain	Residues	Atoms		AltConf	Trace
			Total	O		
18	9D	5	47	21	0	0
18	BE	5	47	21	0	0
18	DE	5	47	21	0	0
18	IE	5	47	21	0	0
18	JE	5	47	21	0	0

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Mol	Chain	Residues	Atoms			AltConf	Trace
18	KE	5	Total	C	O	0	0
			47	26	21		
18	PE	5	Total	C	O	0	0
			47	26	21		
18	SE	5	Total	C	O	0	0
			47	26	21		
18	cE	5	Total	C	O	0	0
			47	26	21		
18	fE	5	Total	C	O	0	0
			47	26	21		
18	pE	5	Total	C	O	0	0
			47	26	21		
18	rE	5	Total	C	O	0	0
			47	26	21		
18	tE	5	Total	C	O	0	0
			47	26	21		
18	yE	5	Total	C	O	0	0
			47	26	21		
18	zE	5	Total	C	O	0	0
			47	26	21		
18	0E	5	Total	C	O	0	0
			47	26	21		

- Molecule 19 is an oligosaccharide called beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



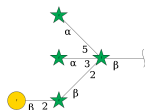
Mol	Chain	Residues	Atoms			AltConf	Trace
19	AE	4	Total	C	O	0	0
			38	21	17		
19	LE	4	Total	C	O	0	0
			38	21	17		
19	NE	4	Total	C	O	0	0
			38	21	17		
19	aE	4	Total	C	O	0	0
			38	21	17		
19	qE	4	Total	C	O	0	0
			38	21	17		
19	1E	4	Total	C	O	0	0
			38	21	17		

- Molecule 20 is an oligosaccharide called beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
20	CE	4	Total	C	O	0	0
			38	21	17		
20	EE	4	Total	C	O	0	0
			38	21	17		
20	HE	4	Total	C	O	0	0
			38	21	17		
20	TE	4	Total	C	O	0	0
			38	21	17		
20	UE	4	Total	C	O	0	0
			38	21	17		
20	WE	4	Total	C	O	0	0
			38	21	17		
20	gE	4	Total	C	O	0	0
			38	21	17		
20	hE	4	Total	C	O	0	0
			38	21	17		
20	jE	4	Total	C	O	0	0
			38	21	17		
20	sE	4	Total	C	O	0	0
			38	21	17		
20	uE	4	Total	C	O	0	0
			38	21	17		
20	xE	4	Total	C	O	0	0
			38	21	17		

- Molecule 21 is an oligosaccharide called beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose.



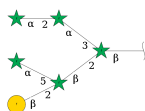
Mol	Chain	Residues	Atoms			AltConf	Trace
21	FE	5	Total	C	O	0	0
			47	26	21		

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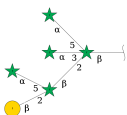
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
21	kE	5	47	26	21	0	0
21	vE	5	47	26	21	0	0

- Molecule 22 is an oligosaccharide called beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose.



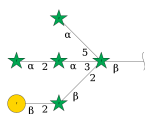
Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
22	GE	6	56	31	25	0	0
22	QE	6	56	31	25	0	0
22	RE	6	56	31	25	0	0
22	VE	6	56	31	25	0	0
22	dE	6	56	31	25	0	0
22	eE	6	56	31	25	0	0
22	iE	6	56	31	25	0	0
22	wE	6	56	31	25	0	0

- Molecule 23 is an oligosaccharide called beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
23	XE	6	56	31	25	0	0

- Molecule 24 is an oligosaccharide called beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose.

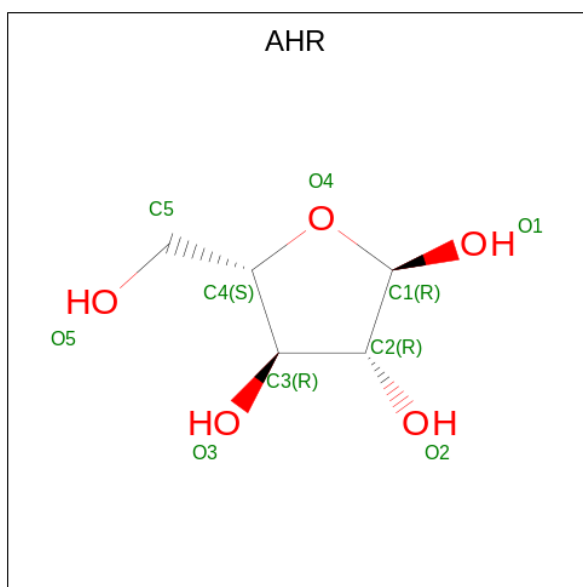


Mol	Chain	Residues	Atoms			AltConf	Trace
			Total	C	O		
24	YE	6	56	31	25	0	0
24	IE	6	56	31	25	0	0

- Molecule 25 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
			Total	Ca	
25	A	1	1	1	0
25	B	1	1	1	0
25	C	1	1	1	0
25	D	1	1	1	0
25	E	1	1	1	0
25	F	1	1	1	0

- Molecule 26 is alpha-L-arabinofuranose (three-letter code: AHR) (formula: C₅H₁₀O₅) (labeled as "Ligand of Interest" by depositor).



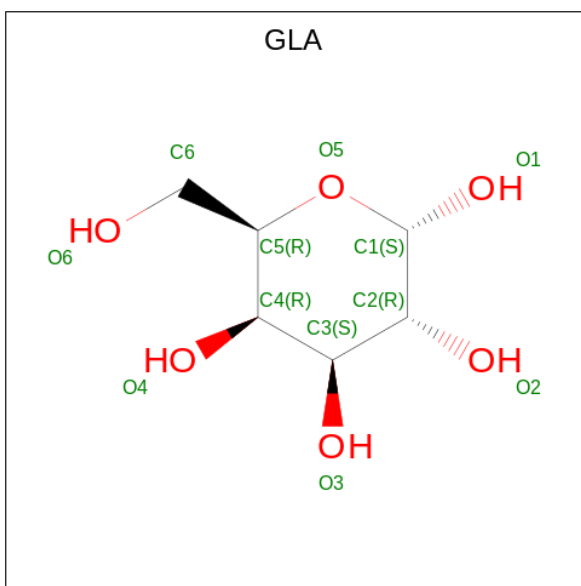
Mol	Chain	Residues	Atoms			AltConf
26	A	1	Total	C	O	0
			9	5	4	
26	A	1	Total	C	O	0
			9	5	4	
26	A	1	Total	C	O	0
			9	5	4	
26	A	1	Total	C	O	0
			9	5	4	
26	B	1	Total	C	O	0
			9	5	4	
26	B	1	Total	C	O	0
			9	5	4	
26	B	1	Total	C	O	0
			9	5	4	
26	B	1	Total	C	O	0
			9	5	4	
26	C	1	Total	C	O	0
			9	5	4	
26	C	1	Total	C	O	0
			9	5	4	
26	D	1	Total	C	O	0
			9	5	4	
26	D	1	Total	C	O	0
			9	5	4	
26	D	1	Total	C	O	0
			9	5	4	
26	E	1	Total	C	O	0
			9	5	4	

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Mol	Chain	Residues	Atoms			AltConf
26	E	1	Total	C	O	0
			9	5	4	
26	F	1	Total	C	O	0
			9	5	4	
26	F	1	Total	C	O	0
			9	5	4	
26	F	1	Total	C	O	0
			9	5	4	
26	F	1	Total	C	O	0
			9	5	4	

- Molecule 27 is alpha-D-galactopyranose (three-letter code: GLA) (formula: C₆H₁₂O₆) (labeled as "Ligand of Interest" by depositor).



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

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

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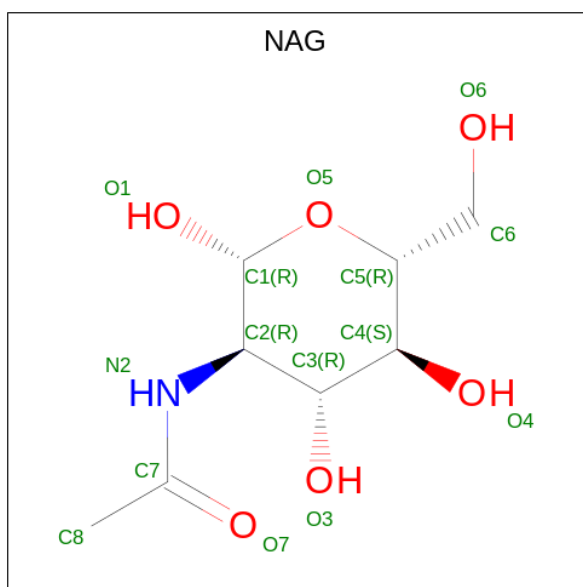
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	C	1	11	6	5	0
27	C	1	11	6	5	0
27	C	1	11	6	5	0
27	C	1	11	6	5	0
27	C	1	11	6	5	0
27	D	1	11	6	5	0
27	D	1	11	6	5	0
27	D	1	11	6	5	0
27	D	1	11	6	5	0
27	D	1	11	6	5	0
27	D	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	E	1	11	6	5	0

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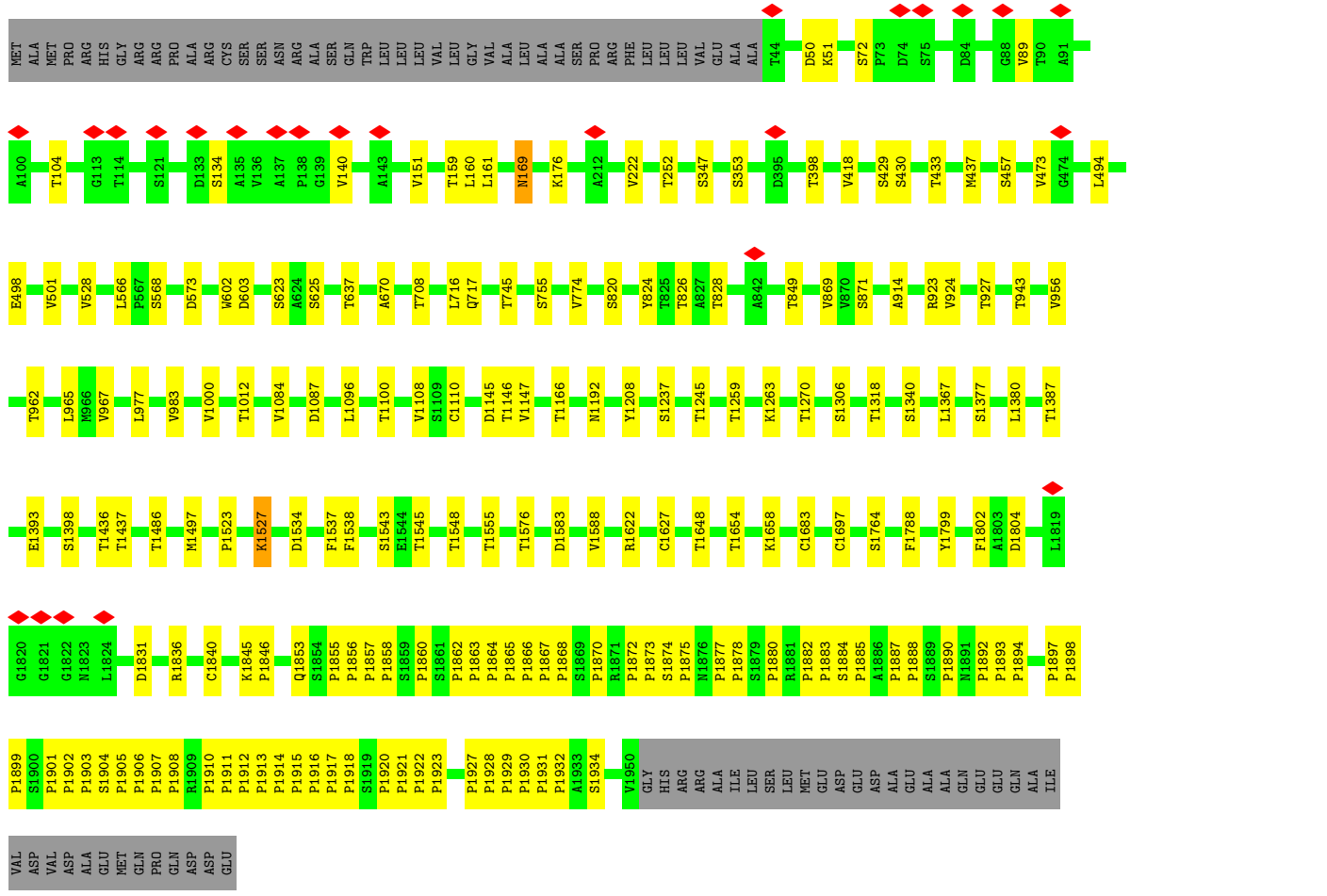
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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	E	1	11	6	5	0
27	E	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0
27	F	1	11	6	5	0

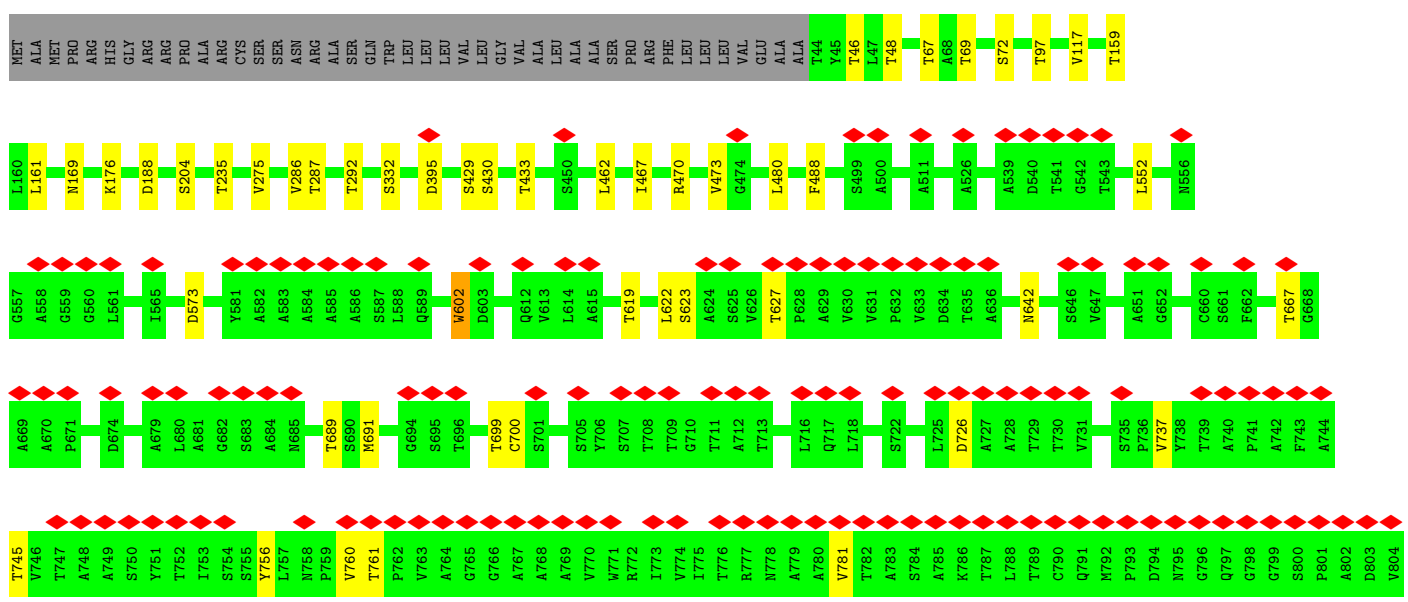
- Molecule 28 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆) (labeled as "Ligand of Interest" by depositor).

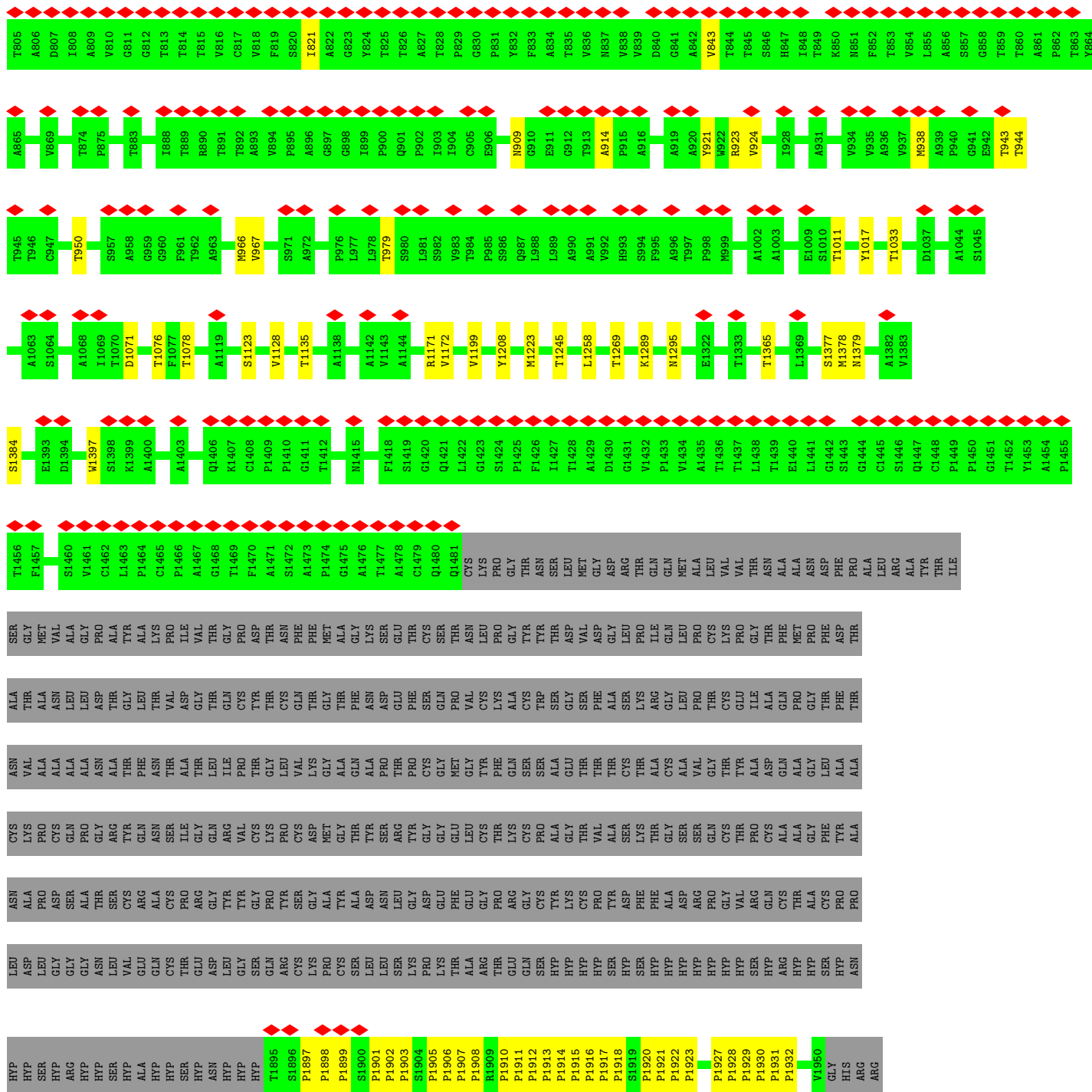


Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
28	A	1	Total 14	C 8	N 1	O 5	0
28	B	1	Total 14	C 8	N 1	O 5	0
28	B	1	Total 14	C 8	N 1	O 5	0
28	C	1	Total 14	C 8	N 1	O 5	0
28	C	1	Total 14	C 8	N 1	O 5	0
28	D	1	Total 14	C 8	N 1	O 5	0
28	E	1	Total 14	C 8	N 1	O 5	0

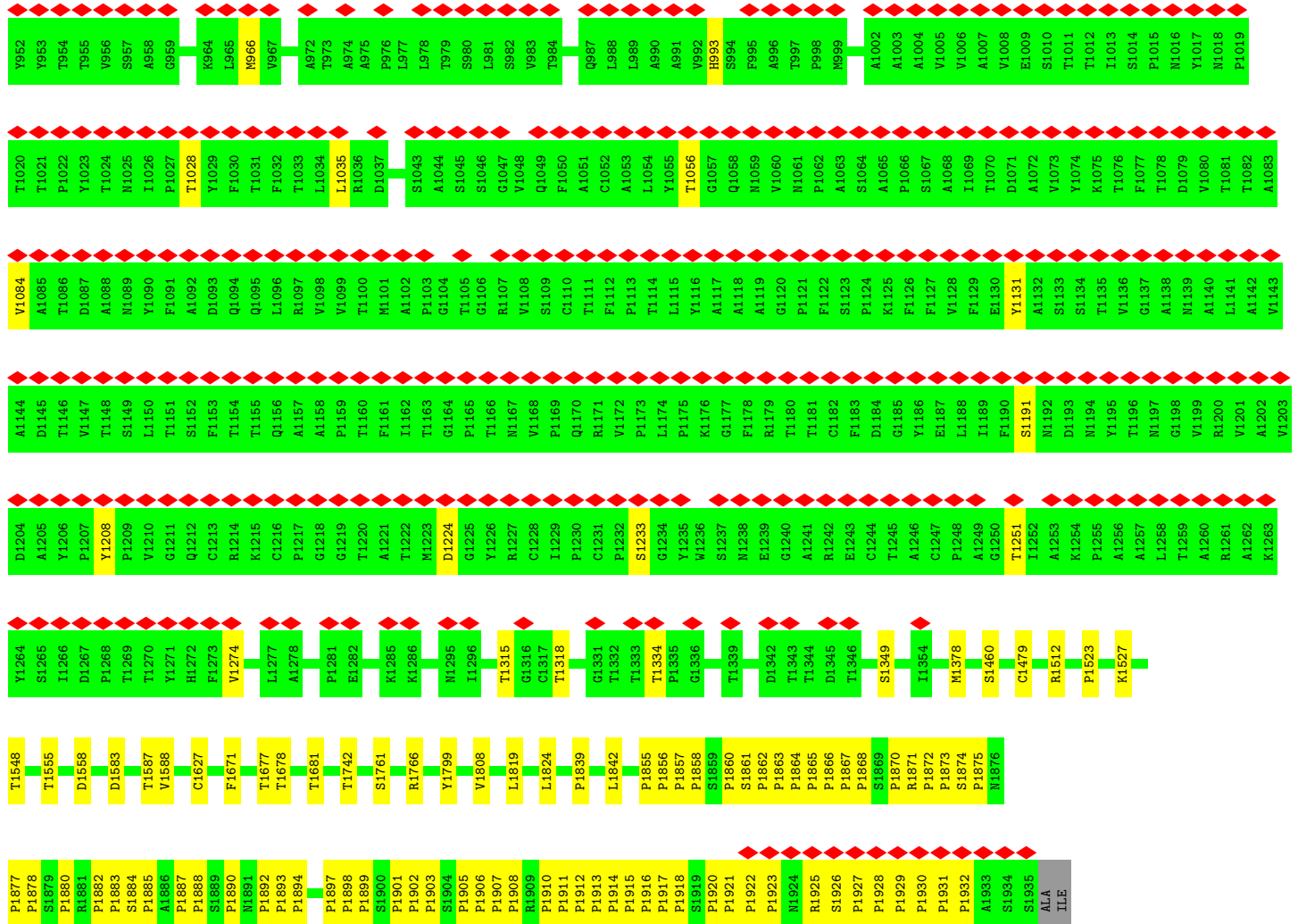


• Molecule 1: Mst1

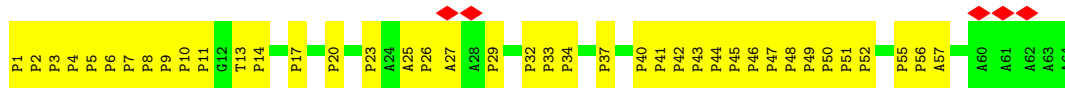




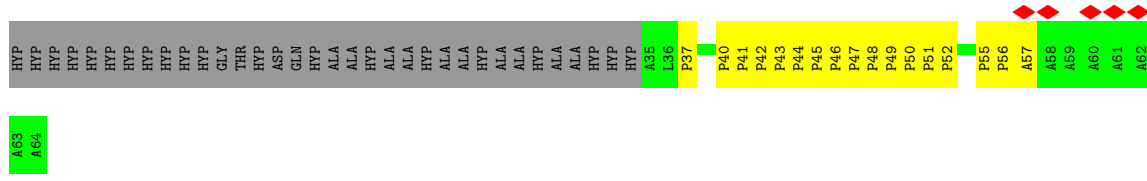
P1906	P1907	P1908	R1909	P1910	P1911	P1912	P1913	P1914	P1915	P1916	P1917	P1918	S1919	P1920	P1921	P1922	P1923	N1924	N1925	P1926	P1927	P1928	P1929	P1930	P1931	P1932	A1933	S1934	S1935	A1936	N1937	N1938	P1939	G1940	G1941	GLY	VAL	ASN	GLN	ASN	GLY	ASP	PRO	VAL	GLY	HIS	ARG	ARG	ALA	ALA	ILE	LEU	SER	LEU	LEU	MET	GLU	ASP	GLU	ASP	ALA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
T1229	L1832	S1841	S1844	P1855	P1856	P1857	P1858	S1859	P1860	S1861	P1862	P1863	P1864	P1865	P1866	P1867	P1868	S1869	P1870	R1871	P1872	P1873	S1874	P1875	M1876	P1877	P1878	S1879	P1880	R1881	P1882	P1883	S1884	P1885	P1887	P1888	S1889	P1890	M1891	P1892	P1893	P1894	T1895	S1896	P1897	P1898	P1899	S1900	P1901	P1902	P1903	S1904	P1905	T1416	S1460	C1479	D1507	R1512	T1515	P1523	K1527	D1534	M1539	T1548	V1538	T1648	T1677	T1678	T1721	Y1725	C1730	T1737	V1738	K1741	S1744	Y1773	D1786	E1787	F1788	Y1799	R1805	V1808	D1818	L1819	G1820	G1821	G1822	L1254	P1255	A1256	A1257	L1258	T1259	A1260	R1261	A1262	K1263	Y1264	S1265	L1266	D1267	P1268	T1269	L1270	Y1271	H1272	F1273	V1274	T1275	H1276	L1277	A1278	M1279	G1280	P1281	E1282	S1283	C1284	K1285	K1286	K1289	M1295	I1296	A1297	G1298	C1298	I1299	P1290	P1291	T1318	G1331	T1332	F1333	T1334	E1337	D1342	D1345	T1346	F1347	H1350	L1254	P1255	A1256	A1257	L1258	T1259	A1260	R1261	A1262	K1263	Y1264	S1265	L1266	D1267	P1268	T1269	L1270	Y1271	H1272	F1273	V1274	T1275	H1276	L1277	A1278	M1279	G1280	P1281	E1282	S1283	C1284	K1285	K1286	K1289	M1295	I1296	A1297	G1298	C1298	I1299	P1290	P1291	T1318	G1331	T1332	F1333	T1334	E1337	D1342	D1345	T1346	F1347	H1350	L1134	L1135	G1136	A1137	M1138	A1139	A1140	L1141	A1142	V1143	A1144	D1145	T1146	L1147	T1148	S1149	L1150	S1151	F1152	T1153	L1154	T1155	Q1156	A1157	A1158	P1159	T1160	F1161	I1162	G1163	G1164	P1165	T1166	M1167	V1168	P1169	Q1170	R1171	V1172	P1173	L1174	P1175	K1176	G1177	F1178	R1179	T1180	T1181	C1182	F1183	D1184	G1185	Y1186	E1187	L1188	I1189	F1190	S1191	M1192	D1193	N1194	Y1195	T1196	N1197	G1198	L1199	R1200	V1201	A1202	V1203	D1204	A1205	Y1206	P1207	Y1208	P1209	V1210	G1211	Q1212	C1213	R1214	K1215	C1216	P1217	G1218	G1219	T1220	A1221	T1222	M1223	D1224	G1225	Y1226	R1227	C1228	I1229	P1230	C1231	P1232	S1233	G1234	S1237	N1238	E1239	G1240	A1241	R1242	C1243	C1244	T1245	A1246	C1247	P1248	A1249	K1254	P1255	A1256	A1257	L1103	S1104	P1105	Y1106	T1107	L1108	Y1109	P1110	L1111	Y1112	T1113	L1114	L1115	Y1116	A1117	A1118	L1119	G1120	P1121	F1122	S1123	P1124	K1125	F1126	Y1127	V1128	F1129	E1130	S1131	A1132	S1133	I1013	S1014	P1015	N1016	Y1017	N1018	P1019	T1020	P1021	P1022	Y1023	T1024	N1025	I1026	P1027	T1028	Y1029	F1030	T1031	F1032	T1033	L1034	L1035	R1036	D1037	V1040	P1041	P1042	S1043	A1044	S1045	S1046	G1047	V1048	Q1049	F1050	A991	A1051	C1052	A1053	L1054	Y1055	T1056	Q1057	Q1058	V1059	N1060	M1061	P1062	A1063	S1064	A1065	A1066	P1066	S1067	A1068	I1069	D1070	A1072	V1073	Y984	V985	F940	T945	T950	T951	P952	Y953	T954	T955	V956	S957	A958	G959	G960	F961	T962	L965	A972	T973	A974	A975	P976	L977	L981	V982	V983	T984	P985	L988	L989	A990	A991	V992	H993	A996	T997	P998	M999	V1000	V1001	A1002	A1003	A1004	V1006	V1008	E1009	S1010	T1011	T1012	T853	A856	S857	G858	T859	T860	A861	P862	T863	Y864	A865	V866	T867	S868	S871	P872	A873	T874	P875	V876	K877	V878	S879	T880	G881	G882	S885	F886	A896	G897	G898	I899	E906	F907	F908	N909	G910	E911	G912	T913	A914	P915	A916	S917	A918	A919	A920	R923	T927	I928	P929	T933	H846	I848	K786	L788	T789	C790	Q791	M792	P793	D794	N795	G796	Q797	G798	G799	S800	P801	A802	D803	V804	T805	A806	D807	I808	V809	G811	G812	S750	V751	T752	I753	S754	S755	V760	T761	P762	V763	A764	G765	T766	A767	A768	A769	V770	T771	R772	I773	V774	I775	T776	R777	N778	A779	V780	V781	T782	L783	L784	L785	I786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L1072	L1073	L1074	K1075	T1076	F1077	T1078	V1079	T1080	T1081	T1082	A1083	V1084	A1085	T1086	A1088	N1089	Y1090	F1091	A1092	D1093	Q1094	Q1095	L1096	R1097	V1098	V1099	T1100	M1101	A1102	P1103	G1104	T1105	L1106	R1107	V1108	S1109	C1110	T1111	F1112	P1113	L1114	L1115	Y1116	A1117	A1118	A1119	G1120	P1121	F1122	C1123	D1124	K1125	F1126	Y1127	V1128	F1129	E1130	S1131	A1132	S1133	Y934	V935	F940	T945	T950	T951	P952	Y953	T954	T955	V956	S957	A958	G959	G960	F961	T962	L965	A972	T973	A974	A975	P976	L977	L981	V982	V983	T984	P985	L988	L989	A990	A991	V992	H993	A996	T997	P998	M999	V1000	V1001	A1002	A1003	A1004	V1006	V1008	E1009	S1010	T1011	T1012	T853	A856	S857	G858	T859	T860	A861	P862	T863	Y864	A865	V866	T867	S868	S871	P872	A873	T874	P875	V876	K877	V878	S879	T880	G881	G882	S885	F886	A896	G897	G898	I899	E906	F907	F908	N909	G910	E911	G912	T913	A914	P915	A916	S917	A918	A919	A920	R923	T927	I928	P929	T933	H846	I848	K786	L788	T789	C790	Q791	M792	P793	D794	N795	G796	Q797	G798	G799	S800	P801	A802	D803	V804	T805	A806	D807	I808	V809	G811	G812	S750	V751	T752	I753	S754	S755	V760	T761	P762	V763	A764	G765	T766	A767	A768	A769	V770	T771	R772	I773	V774	I775	T776	R777	N778	A779	V780	V781	T782	L783	L784	L785	I786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L1072	L1073	L1074	K1075	T1076	F1077	T1078	V1079	T1080	T1081	T1082	A1083	V1084	A1085	T1086	A1088	N1089	Y1090	F1091	A1092	D1093	Q



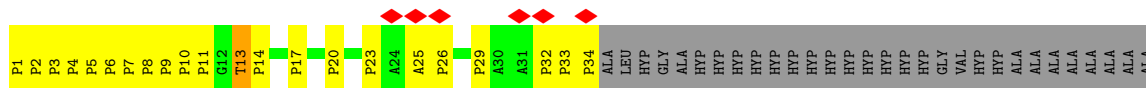
• Molecule 2: Mstax



• Molecule 2: Mstax



- Molecule 2: Mstax



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain V: 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain b: 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain e: 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain l: 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain m: 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain t: 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain w:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain x:  33% 67%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain y:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain z:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 0:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 1:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 2:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain HA:  33% 67%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain IA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain MA:  100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain NA:  33% 67%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain OA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain RA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain TA:  33% 67%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain uA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain vA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain wA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain xA:  100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain yA:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain zA:  100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 0A:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

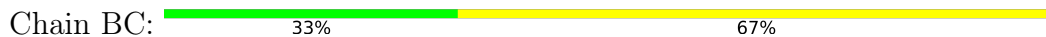


- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain NC:  100%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain TC:  100%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain WC:  33% 67%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain dC:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain eC:  100%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain IC:  100%


FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain oC:  33% 100%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain pC:  33% 67%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain qC:  100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain rC:  100% 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain sC:  100% 33% 67%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain tC:  33% 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain uC:  67% 67% 33%




- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 8C:  100%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 9C:  33% 67%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain DD:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain ED:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain FD:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain ID:  67% 33%

FUB1
FUB2
FUB3

- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain KD:  67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain QD: 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain TD: 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain aD: 33% 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain bD: 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain iD: 67% 33%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain lD: 67% 100%



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 3: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain L:  75% 25%




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain W:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain X:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain Z:  25% 75%

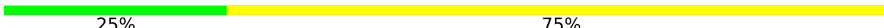


- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain c:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain d:  25% 75%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain g:  75% 25%

FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain k:  100%

FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain r:  100%


FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain v:  75% 25%


FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain JA:  75% 25%


FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain UA:  75% 25%

FUB1
FUB2
FUB3
AHR4

- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain VA:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain aA:  100%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain bA:  100%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain eA:  100%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain iA:  50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain pA:  100%

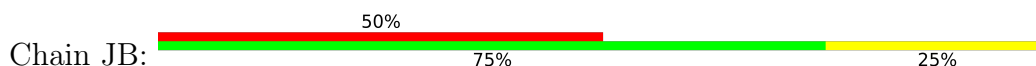


- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain tA:  50% 50%



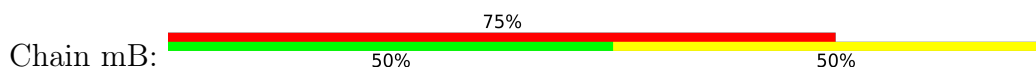
- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



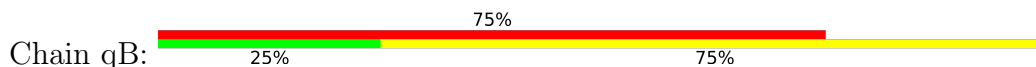
- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



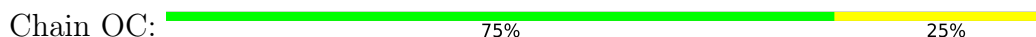
- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain PC:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain RC:  75% 25%




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain UC:  100%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain VC:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain YC:  50% 50%




- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain cC:  50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain jC:  75% 25%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain nC:  25% 50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain AD:  50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain LD:  50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain MD:  100%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain OD:  50% 50%



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain RD:  50% 50%



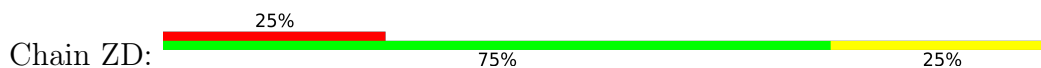
- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 4: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 5: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose





- Molecule 5: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



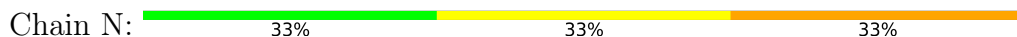
- Molecule 5: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 5: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



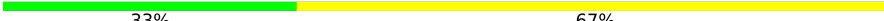
- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 8:  33% 67%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain 9:  33% 67%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain AA:  33% 67%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain EA:  33% 67%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain LA:  33% 33% 33%

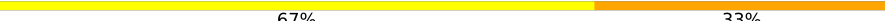
FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain PA:  67% 33%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranos e

Chain 3A:  67% 33%

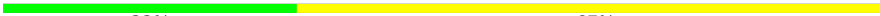
FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 6A:  33% 67%


 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 7A:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 8A:  100%

 FUB1
FUB2
GZL3

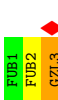
- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain CB:  33% 67%


 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain XB:  33% 33% 33% 33%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain aB:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain bB:  100%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain cB:  100%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain gB:  67% 33%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 0B:  33% 33% 33%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 3B:  100%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 4B:  33% 67%

FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 5B:  33% 67%


FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 9B:  33% 67%




- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain FC:  100%



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain JC:  33% 67%



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain xC:  100% 67% 33%



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 0C:  100% 33% 67%



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 1C:  100% 67% 33%



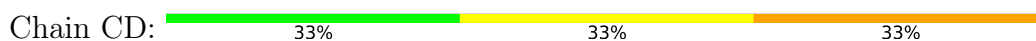
- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





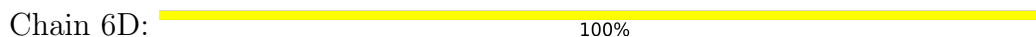
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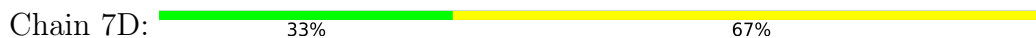
- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

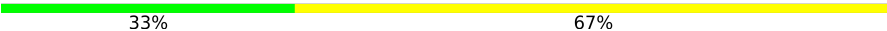


- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain OE:  67% 33%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain ZE:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain bE:  67% 33%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain mE:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain nE:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 6: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain oE:  33% 67%

 FUB1
FUB2
GZL3

- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain S:  25% 75%



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain f:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain h:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain QA:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain dA:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain fA:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain KC:



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain XC:  75% 25%



- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain ZC:  75% 25%




- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain HD:  50% 50%




- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain UD:  75% 25%

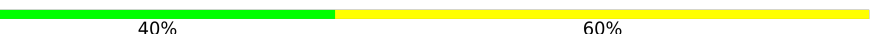


- Molecule 7: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain WD:  75% 25%




- Molecule 8: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain U:  40% 60%



- Molecule 8: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain SA:  80% 20%




- Molecule 8: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain MC:  40% 60%



- Molecule 8: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain JD:  80% 20%



- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain Y:  100%



- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain j:  50% 50%



- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain WA:  100%



- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain hA:  50% 50%



- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain QC:  100%

FUB1
FUB2

- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain bC:  100%

FUB1
FUB2

- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain ND:  50% 50%

FUB1
FUB2

- Molecule 9: beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain YD:  100%

FUB1
FUB2

- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain a:  20% 80%

FUB1
FUB2
FUB3
AHR4
AHR5

- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain u:  60% 40%


FUB1
FUB2
FUB3
AHR4
AHR5

- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain 3:  40% 60%

FUB1
FUB2
FUB3
AHR4
AHR5

- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain YA:  80% 20%



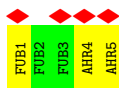
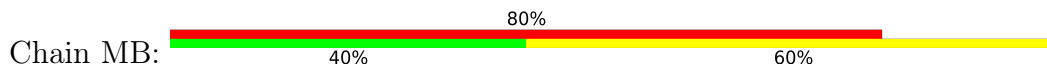
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



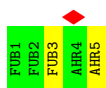
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



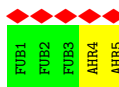
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



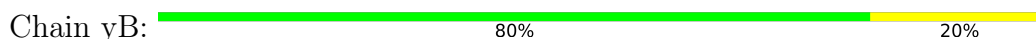
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

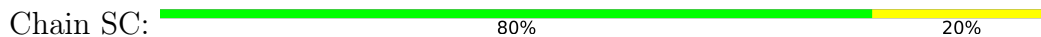


- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

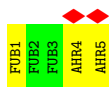




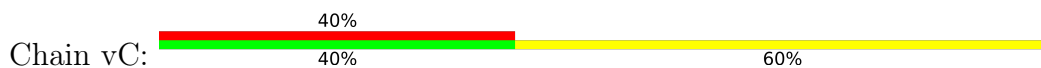
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



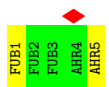
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



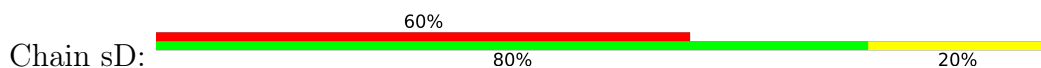
- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

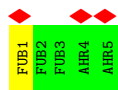


- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 10: alpha-L-arabinofuranose-(1-3)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose





- Molecule 11: alpha-L-arabinofuranose-(1-3)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 11: alpha-L-arabinofuranose-(1-3)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 11: alpha-L-arabinofuranose-(1-3)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 11: alpha-L-arabinofuranose-(1-3)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose



- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain 1A: 



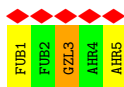
- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain oA: 

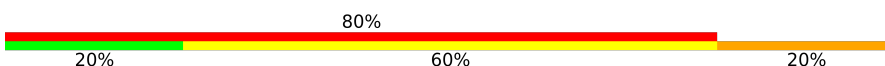


- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain FB: 



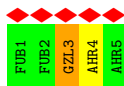
- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain IB: 




- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain iB: 

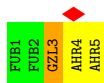


- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

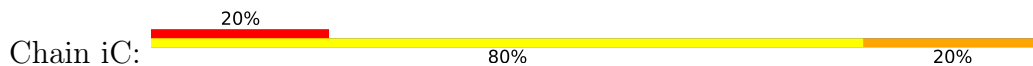
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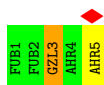
- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



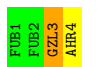
- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 12: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 6:  50% 50%

FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 7:  50% 50%

FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain BA:  50% 50%


FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain mA:  50% 25% 25%

FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 2A:  75% 25%

FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 4A:  50% 50%

FUB1
FUB2
GZL3
AHR4

- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 5A:  50% 50%




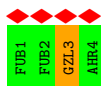
- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

Chain 9A:  50% 50%

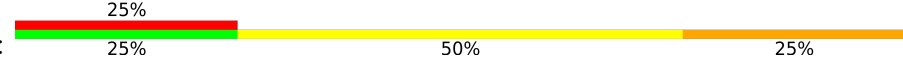


- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

Chain GB:  100% 75% 25%



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

Chain WB:  25% 25% 50% 25%




- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

Chain YB:  50% 50%



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

Chain ZB:  75% 25%

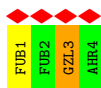


- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose

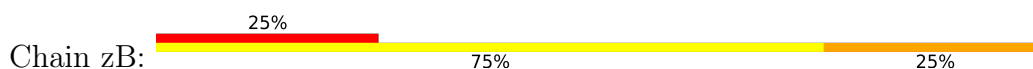
Chain dB:  50% 50%



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

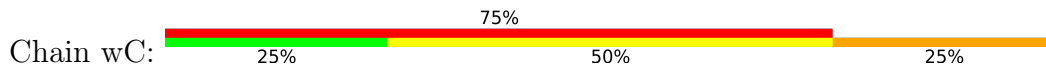


- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose





- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



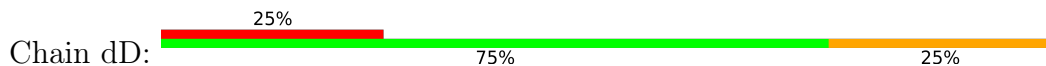
- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



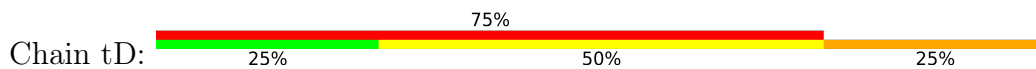
- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



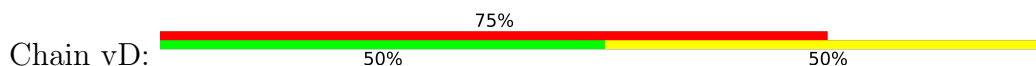
- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranos e-(1-2)-beta-L-arabinofuranose



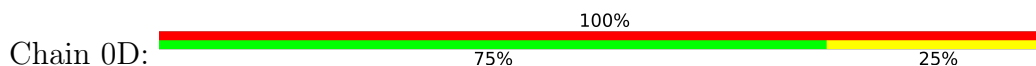
- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 13: alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose




- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose




- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain nA:  75% 25%



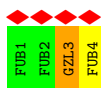
- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain qA:  75% 25%



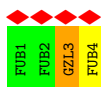
- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain HB:  50% 25% 25%



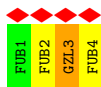
- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain KB:  50% 25% 25%

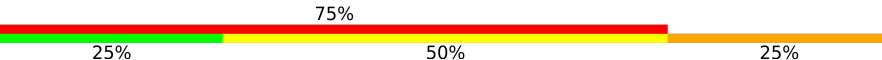


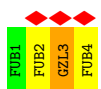
- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain kB:  25% 50% 25%



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain nB:  25% 75% 25%



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain hC:  50% 25% 25%



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain kC:  50% 25% 25%



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain eD:  50% 25% 25%



- Molecule 14: beta-L-arabinofuranose-(1-5)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain hD:  25% 50% 25%

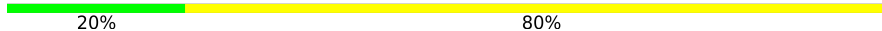


- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain CA:  40% 60%



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain DA:  20% 80%



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain AB:  20% 80%



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain BB: 



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain eB: 



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain fB: 



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 7B: 



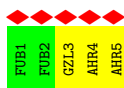
- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain 8B: 

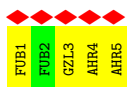


- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

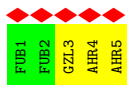
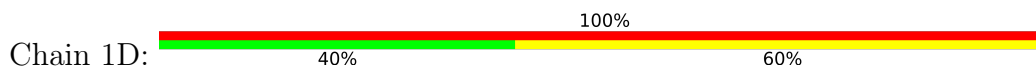
Chain 4C: 



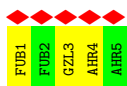
- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 15: alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)-beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 16: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 16: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



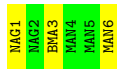
- Molecule 16: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



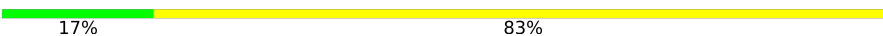
- Molecule 17: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-aceta

mido-2-deoxy-beta-D-glucopyranose

Chain GA:  50% 50%



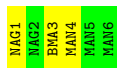
- Molecule 17: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain DB:  17% 83%



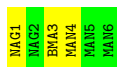
- Molecule 17: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 7C:  50% 50%



- Molecule 17: alpha-D-mannopyranose-(1-6)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 5D:  50% 50%




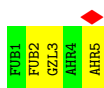
- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain 9D:  20% 80%

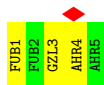


- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain BE:  20% 40% 60%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



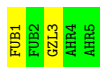
- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain cE:  60% 40%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain fE:  40% 60%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain pE:  100%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain rE:  20% 40% 60%



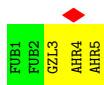
- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain tE:  40% 60%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain yE:  20% 40% 60%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

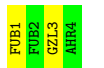
Chain zE:  20% 60% 40%



- Molecule 18: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



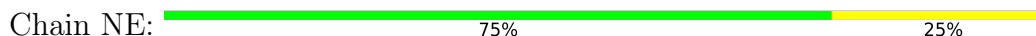
- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



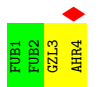
- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

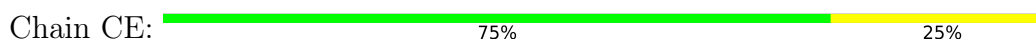




- Molecule 19: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



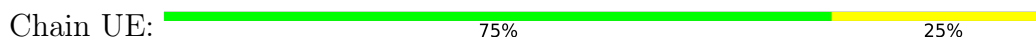
- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain WE:  50% 50%




- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain gE:  50% 50%




- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain hE:  75% 25%



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain jE:  75% 25%



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain sE:  25% 75%



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain uE:  50% 50%



- Molecule 20: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-beta-L-arabinofuranose

Chain xE:  50% 50%



- Molecule 21: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain FE:  20% 80%



- Molecule 21: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain kE:  20% 80%



- Molecule 21: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain vE:  40% 60%




- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain GE:  33% 67%

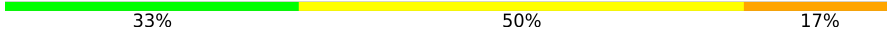


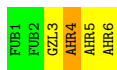
- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain QE:  17% 33% 67%



- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain RE:  33% 50% 17%



- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain VE:  33% 67%



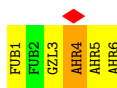
- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain dE:  17% 83%



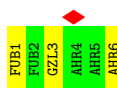
- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain eE:  17% 17% 67% 17%



- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain iE:  17% 50% 50%

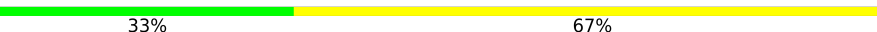


- Molecule 22: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)]beta-L-arabinofuranose

Chain wE:  67% 33%

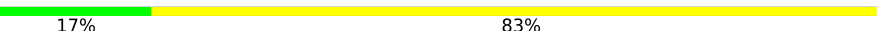


- Molecule 23: beta-D-galactofuranose-(1-2)-[alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain XE:  33% 67%

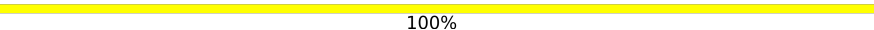
FUB1
FUB2
GZL3
AHR4
AHR5
AHR6

- Molecule 24: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain YE:  17% 83%

FUB1
FUB2
GZL3
AHR4
AHR5
AHR6

- Molecule 24: beta-D-galactofuranose-(1-2)-beta-L-arabinofuranose-(1-2)-[alpha-L-arabinofuranose-(1-2)-alpha-L-arabinofuranose-(1-3)][alpha-L-arabinofuranose-(1-5)]beta-L-arabinofuranose

Chain IE:  100%

FUB1
FUB2
GZL3
AHR4
AHR5
AHR6

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	69065	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.527	Depositor
Minimum map value	-0.673	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.043	Depositor
Recommended contour level	0.23	Depositor
Map size (\AA)	554.24, 554.24, 554.24	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.0825, 1.0825, 1.0825	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, FUB, AHR, MAN, CA, GLA, GZL, HYP, BMA

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	0.29	0/13724	0.54	2/18848 (0.0%)
1	B	0.29	0/13724	0.54	3/18848 (0.0%)
1	C	0.27	0/10873	0.51	0/14984
1	D	0.27	0/11422	0.53	2/15734 (0.0%)
1	E	0.27	0/10283	0.51	0/14106
1	F	0.31	2/10246 (0.0%)	0.56	4/14055 (0.0%)
2	G	0.25	0/139	0.58	0/174
2	H	0.21	0/69	0.43	0/89
2	I	0.23	0/71	0.45	0/87
All	All	0.28	2/70551 (0.0%)	0.53	11/96925 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
1	E	0	2
1	F	0	1
2	G	2	0
2	I	2	0
All	All	4	6

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	632	PRO	CB-CG	-10.50	0.97	1.50
1	F	632	PRO	CG-CD	-9.54	1.19	1.50

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	632	PRO	N-CD-CG	-16.73	78.11	103.20
1	F	632	PRO	CB-CG-CD	14.79	164.20	106.50
1	F	632	PRO	CA-CB-CG	-13.73	77.91	104.00
1	B	1846	PRO	CA-N-CD	-12.21	94.40	111.50
1	A	1839	PRO	CA-N-CD	-11.07	96.00	111.50
1	A	1842	LEU	CA-CB-CG	8.99	135.98	115.30
1	D	534	CYS	CA-CB-SG	7.89	128.20	114.00
1	B	1846	PRO	N-CD-CG	-6.07	94.10	103.20
1	D	915	PRO	CA-N-CD	-5.62	103.63	111.50
1	F	632	PRO	CA-N-CD	-5.58	103.69	111.50
1	B	1845	LYS	C-N-CD	5.27	139.46	128.40

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	G	23	HYP	CA
2	G	26	HYP	CA
2	I	23	HYP	CA
2	I	26	HYP	CA

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1522	GLY	Peptide
1	A	1527	LYS	Peptide
1	B	1527	LYS	Peptide
1	E	1527	LYS	Peptide
1	E	1725	TYR	Peptide
1	F	1527	LYS	Peptide

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	1848/1987 (93%)	1690 (92%)	150 (8%)	8 (0%)	34	72
1	B	1848/1987 (93%)	1691 (92%)	150 (8%)	7 (0%)	34	72
1	C	1461/1987 (74%)	1342 (92%)	115 (8%)	4 (0%)	41	76
1	D	1531/1987 (77%)	1411 (92%)	114 (7%)	6 (0%)	34	72
1	E	1390/1987 (70%)	1289 (93%)	97 (7%)	4 (0%)	41	76
1	F	1384/1987 (70%)	1273 (92%)	108 (8%)	3 (0%)	47	82
2	G	27/64 (42%)	17 (63%)	6 (22%)	4 (15%)	0	1
2	H	12/64 (19%)	11 (92%)	0	1 (8%)	1	4
2	I	14/64 (22%)	9 (64%)	3 (21%)	2 (14%)	0	1
All	All	9515/12114 (78%)	8733 (92%)	743 (8%)	39 (0%)	38	72

All (39) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	585	ALA
1	A	1523	PRO
1	B	1523	PRO
1	E	1523	PRO
1	F	1523	PRO
1	A	473	VAL
1	B	473	VAL
1	C	169	ASN
1	C	473	VAL
1	D	169	ASN
1	D	473	VAL
1	D	585	ALA
2	G	27	ALA
1	A	1909	ARG
1	B	602	TRP
1	C	602	TRP
1	D	1909	ARG
1	E	1909	ARG
1	F	602	TRP
1	A	169	ASN
1	A	602	TRP
1	A	914	ALA

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Mol	Chain	Res	Type
1	D	602	TRP
1	E	602	TRP
2	G	25	ALA
2	G	57	ALA
2	H	57	ALA
2	I	13	THR
2	I	25	ALA
1	B	914	ALA
1	C	914	ALA
1	D	914	ALA
2	G	13	THR
1	B	169	ASN
1	B	1398	SER
1	E	1398	SER
1	F	914	ALA
1	A	604	PRO
1	B	670	ALA

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	1451/1514 (96%)	1314 (91%)	137 (9%)	8	32
1	B	1451/1514 (96%)	1331 (92%)	120 (8%)	11	39
1	C	1149/1514 (76%)	1064 (93%)	85 (7%)	13	44
1	D	1209/1514 (80%)	1099 (91%)	110 (9%)	9	34
1	E	1081/1514 (71%)	1005 (93%)	76 (7%)	15	47
1	F	1078/1514 (71%)	1009 (94%)	69 (6%)	17	51
2	G	5/5 (100%)	5 (100%)	0	100	100
2	H	2/5 (40%)	2 (100%)	0	100	100
2	I	3/5 (60%)	2 (67%)	1 (33%)	0	1
All	All	7429/9099 (82%)	6831 (92%)	598 (8%)	16	40

All (598) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	LYS
1	A	61	SER
1	A	62	ASP
1	A	77	THR
1	A	81	PHE
1	A	118	THR
1	A	161	LEU
1	A	180	SER
1	A	185	ASN
1	A	204	SER
1	A	225	ASP
1	A	235	THR
1	A	251	ARG
1	A	271	LEU
1	A	281	THR
1	A	287	THR
1	A	289	THR
1	A	291	THR
1	A	292	THR
1	A	314	ASP
1	A	332	SER
1	A	334	PHE
1	A	343	SER
1	A	347	SER
1	A	353	SER
1	A	361	LEU
1	A	382	ASN
1	A	393	THR
1	A	398	THR
1	A	399	THR
1	A	416	SER
1	A	430	SER
1	A	439	ASN
1	A	456	THR
1	A	491	THR
1	A	530	GLU
1	A	533	LYS
1	A	562	THR
1	A	568	SER
1	A	596	ILE
1	A	613	VAL
1	A	623	SER

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Mol	Chain	Res	Type
1	A	625	SER
1	A	626	VAL
1	A	631	VAL
1	A	664	ASP
1	A	696	THR
1	A	707	SER
1	A	708	THR
1	A	711	THR
1	A	755	SER
1	A	758	ASN
1	A	761	THR
1	A	763	VAL
1	A	792	MET
1	A	805	THR
1	A	816	VAL
1	A	820	SER
1	A	824	TYR
1	A	826	THR
1	A	832	TYR
1	A	860	THR
1	A	866	VAL
1	A	869	VAL
1	A	874	THR
1	A	923	ARG
1	A	924	VAL
1	A	944	THR
1	A	946	THR
1	A	967	VAL
1	A	979	THR
1	A	981	LEU
1	A	983	VAL
1	A	1000	VAL
1	A	1025	ASN
1	A	1052	CYS
1	A	1056	THR
1	A	1064	SER
1	A	1071	ASP
1	A	1076	THR
1	A	1078	THR
1	A	1084	VAL
1	A	1096	LEU
1	A	1108	VAL

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Mol	Chain	Res	Type
1	A	1110	CYS
1	A	1146	THR
1	A	1163	THR
1	A	1191	SER
1	A	1199	VAL
1	A	1208	TYR
1	A	1214	ARG
1	A	1222	THR
1	A	1223	MET
1	A	1237	SER
1	A	1245	THR
1	A	1337	GLU
1	A	1341	LEU
1	A	1377	SER
1	A	1387	THR
1	A	1398	SER
1	A	1459	MET
1	A	1460	SER
1	A	1479	CYS
1	A	1531	THR
1	A	1534	ASP
1	A	1537	PHE
1	A	1538	PHE
1	A	1543	SER
1	A	1548	THR
1	A	1556	ASP
1	A	1576	THR
1	A	1583	ASP
1	A	1584	THR
1	A	1621	LYS
1	A	1647	ASN
1	A	1648	THR
1	A	1658	LYS
1	A	1677	THR
1	A	1731	THR
1	A	1746	GLN
1	A	1748	THR
1	A	1770	ARG
1	A	1773	TYR
1	A	1788	PHE
1	A	1789	GLU
1	A	1799	TYR

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Mol	Chain	Res	Type
1	A	1800	ASP
1	A	1802	PHE
1	A	1808	VAL
1	A	1845	LYS
1	A	1854	SER
1	A	1874	SER
1	A	1884	SER
1	A	1891	ASN
1	A	1925	ARG
1	A	1934	SER
1	A	1938	ASN
1	B	50	ASP
1	B	51	LYS
1	B	72	SER
1	B	89	VAL
1	B	104	THR
1	B	134	SER
1	B	140	VAL
1	B	151	VAL
1	B	159	THR
1	B	160	LEU
1	B	161	LEU
1	B	169	ASN
1	B	176	LYS
1	B	222	VAL
1	B	252	THR
1	B	347	SER
1	B	353	SER
1	B	398	THR
1	B	418	VAL
1	B	429	SER
1	B	430	SER
1	B	433	THR
1	B	437	MET
1	B	457	SER
1	B	494	LEU
1	B	498	GLU
1	B	501	VAL
1	B	528	VAL
1	B	566	LEU
1	B	568	SER
1	B	573	ASP

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Mol	Chain	Res	Type
1	B	603	ASP
1	B	623	SER
1	B	625	SER
1	B	637	THR
1	B	708	THR
1	B	716	LEU
1	B	717	GLN
1	B	745	THR
1	B	755	SER
1	B	774	VAL
1	B	820	SER
1	B	824	TYR
1	B	826	THR
1	B	828	THR
1	B	849	THR
1	B	869	VAL
1	B	871	SER
1	B	923	ARG
1	B	924	VAL
1	B	927	THR
1	B	943	THR
1	B	956	VAL
1	B	962	THR
1	B	965	LEU
1	B	967	VAL
1	B	977	LEU
1	B	983	VAL
1	B	1000	VAL
1	B	1012	THR
1	B	1084	VAL
1	B	1087	ASP
1	B	1096	LEU
1	B	1100	THR
1	B	1108	VAL
1	B	1110	CYS
1	B	1145	ASP
1	B	1146	THR
1	B	1147	VAL
1	B	1166	THR
1	B	1192	ASN
1	B	1208	TYR
1	B	1237	SER

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Mol	Chain	Res	Type
1	B	1245	THR
1	B	1259	THR
1	B	1263	LYS
1	B	1270	THR
1	B	1306	SER
1	B	1318	THR
1	B	1340	SER
1	B	1367	LEU
1	B	1377	SER
1	B	1380	LEU
1	B	1387	THR
1	B	1393	GLU
1	B	1436	THR
1	B	1437	THR
1	B	1486	THR
1	B	1497	MET
1	B	1527	LYS
1	B	1534	ASP
1	B	1537	PHE
1	B	1538	PHE
1	B	1543	SER
1	B	1545	THR
1	B	1548	THR
1	B	1555	THR
1	B	1576	THR
1	B	1583	ASP
1	B	1588	VAL
1	B	1622	ARG
1	B	1627	CYS
1	B	1648	THR
1	B	1654	THR
1	B	1658	LYS
1	B	1683	CYS
1	B	1697	CYS
1	B	1764	SER
1	B	1788	PHE
1	B	1799	TYR
1	B	1802	PHE
1	B	1804	ASP
1	B	1831	ASP
1	B	1836	ARG
1	B	1840	CYS

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Mol	Chain	Res	Type
1	B	1853	GLN
1	B	1874	SER
1	B	1884	SER
1	B	1904	SER
1	B	1934	SER
1	C	46	THR
1	C	48	THR
1	C	67	THR
1	C	69	THR
1	C	72	SER
1	C	97	THR
1	C	117	VAL
1	C	159	THR
1	C	161	LEU
1	C	176	LYS
1	C	188	ASP
1	C	204	SER
1	C	235	THR
1	C	275	VAL
1	C	286	VAL
1	C	287	THR
1	C	292	THR
1	C	332	SER
1	C	395	ASP
1	C	429	SER
1	C	430	SER
1	C	433	THR
1	C	462	LEU
1	C	467	ILE
1	C	470	ARG
1	C	480	LEU
1	C	488	PHE
1	C	552	LEU
1	C	573	ASP
1	C	602	TRP
1	C	619	THR
1	C	622	LEU
1	C	623	SER
1	C	627	THR
1	C	642	ASN
1	C	667	THR
1	C	689	THR

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Mol	Chain	Res	Type
1	C	691	MET
1	C	699	THR
1	C	700	CYS
1	C	726	ASP
1	C	737	VAL
1	C	745	THR
1	C	756	TYR
1	C	760	VAL
1	C	761	THR
1	C	781	VAL
1	C	821	ILE
1	C	843	VAL
1	C	909	ASN
1	C	921	TYR
1	C	923	ARG
1	C	924	VAL
1	C	938	MET
1	C	943	THR
1	C	944	THR
1	C	950	THR
1	C	966	MET
1	C	967	VAL
1	C	979	THR
1	C	1011	THR
1	C	1017	TYR
1	C	1033	THR
1	C	1071	ASP
1	C	1076	THR
1	C	1078	THR
1	C	1123	SER
1	C	1128	VAL
1	C	1135	THR
1	C	1171	ARG
1	C	1172	VAL
1	C	1199	VAL
1	C	1208	TYR
1	C	1223	MET
1	C	1245	THR
1	C	1258	LEU
1	C	1269	THR
1	C	1289	LYS
1	C	1295	ASN

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Mol	Chain	Res	Type
1	C	1365	THR
1	C	1377	SER
1	C	1378	MET
1	C	1379	ASN
1	C	1384	SER
1	C	1397	TRP
1	D	46	THR
1	D	50	ASP
1	D	51	LYS
1	D	76	THR
1	D	85	TYR
1	D	105	PRO
1	D	110	VAL
1	D	116	THR
1	D	159	THR
1	D	160	LEU
1	D	161	LEU
1	D	179	VAL
1	D	181	SER
1	D	182	SER
1	D	185	ASN
1	D	204	SER
1	D	207	ILE
1	D	231	GLU
1	D	251	ARG
1	D	278	THR
1	D	280	VAL
1	D	281	THR
1	D	287	THR
1	D	289	THR
1	D	334	PHE
1	D	352	THR
1	D	379	THR
1	D	395	ASP
1	D	398	THR
1	D	399	THR
1	D	410	LYS
1	D	416	SER
1	D	429	SER
1	D	433	THR
1	D	437	MET
1	D	466	ARG

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Mol	Chain	Res	Type
1	D	470	ARG
1	D	479	LEU
1	D	487	THR
1	D	491	THR
1	D	501	VAL
1	D	524	THR
1	D	531	SER
1	D	540	ASP
1	D	573	ASP
1	D	587	SER
1	D	608	THR
1	D	619	THR
1	D	623	SER
1	D	639	TRP
1	D	662	PHE
1	D	667	THR
1	D	687	LYS
1	D	691	MET
1	D	696	THR
1	D	697	THR
1	D	729	THR
1	D	735	SER
1	D	745	THR
1	D	747	THR
1	D	750	SER
1	D	792	MET
1	D	794	ASP
1	D	807	ASP
1	D	820	SER
1	D	832	TYR
1	D	833	PHE
1	D	846	SER
1	D	888	ILE
1	D	909	ASN
1	D	921	TYR
1	D	922	TRP
1	D	923	ARG
1	D	934	VAL
1	D	938	MET
1	D	943	THR
1	D	962	THR
1	D	983	VAL

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Mol	Chain	Res	Type
1	D	1000	VAL
1	D	1028	THR
1	D	1037	ASP
1	D	1046	SER
1	D	1059	ASN
1	D	1096	LEU
1	D	1100	THR
1	D	1128	VAL
1	D	1133	SER
1	D	1145	ASP
1	D	1160	THR
1	D	1192	ASN
1	D	1208	TYR
1	D	1223	MET
1	D	1229	ILE
1	D	1242	ARG
1	D	1286	LYS
1	D	1299	THR
1	D	1337	GLU
1	D	1339	THR
1	D	1366	TYR
1	D	1370	ARG
1	D	1377	SER
1	D	1379	ASN
1	D	1398	SER
1	D	1399	LYS
1	D	1479	CYS
1	D	1490	MET
1	D	1492	ASP
1	D	1534	ASP
1	D	1539	MET
1	D	1925	ARG
1	E	568	SER
1	E	579	ARG
1	E	623	SER
1	E	635	THR
1	E	640	THR
1	E	701	SER
1	E	733	PHE
1	E	761	THR
1	E	770	VAL
1	E	774	VAL

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Mol	Chain	Res	Type
1	E	824	TYR
1	E	846	SER
1	E	847	HIS
1	E	848	ILE
1	E	907	PHE
1	E	908	PHE
1	E	913	THR
1	E	923	ARG
1	E	953	TYR
1	E	962	THR
1	E	999	MET
1	E	1000	VAL
1	E	1008	VAL
1	E	1012	THR
1	E	1078	THR
1	E	1127	PHE
1	E	1128	VAL
1	E	1146	THR
1	E	1208	TYR
1	E	1232	PRO
1	E	1237	SER
1	E	1259	THR
1	E	1271	TYR
1	E	1289	LYS
1	E	1318	THR
1	E	1334	THR
1	E	1387	THR
1	E	1413	TYR
1	E	1416	THR
1	E	1460	SER
1	E	1479	CYS
1	E	1507	ASP
1	E	1512	ARG
1	E	1515	THR
1	E	1534	ASP
1	E	1539	MET
1	E	1548	THR
1	E	1588	VAL
1	E	1648	THR
1	E	1677	THR
1	E	1678	THR
1	E	1721	THR

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Mol	Chain	Res	Type
1	E	1730	CYS
1	E	1737	THR
1	E	1738	VAL
1	E	1741	LYS
1	E	1744	SER
1	E	1773	TYR
1	E	1786	ASP
1	E	1788	PHE
1	E	1799	TYR
1	E	1805	ARG
1	E	1808	VAL
1	E	1818	ASP
1	E	1819	LEU
1	E	1829	THR
1	E	1832	LEU
1	E	1841	SER
1	E	1844	SER
1	E	1861	SER
1	E	1876	ASN
1	E	1884	SER
1	E	1891	ASN
1	E	1895	THR
1	E	1925	ARG
1	E	1938	ASN
1	F	524	THR
1	F	564	THR
1	F	566	LEU
1	F	619	THR
1	F	625	SER
1	F	646	SER
1	F	662	PHE
1	F	674	ASP
1	F	690	SER
1	F	699	THR
1	F	713	THR
1	F	743	PHE
1	F	761	THR
1	F	763	VAL
1	F	778	ASN
1	F	795	ASN
1	F	807	ASP
1	F	832	TYR

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Mol	Chain	Res	Type
1	F	833	PHE
1	F	867	THR
1	F	870	VAL
1	F	923	ARG
1	F	966	MET
1	F	993	HIS
1	F	1028	THR
1	F	1035	LEU
1	F	1056	THR
1	F	1084	VAL
1	F	1131	TYR
1	F	1191	SER
1	F	1208	TYR
1	F	1224	ASP
1	F	1233	SER
1	F	1251	THR
1	F	1274	VAL
1	F	1315	THR
1	F	1318	THR
1	F	1334	THR
1	F	1349	SER
1	F	1378	MET
1	F	1460	SER
1	F	1479	CYS
1	F	1512	ARG
1	F	1548	THR
1	F	1555	THR
1	F	1558	ASP
1	F	1583	ASP
1	F	1587	THR
1	F	1588	VAL
1	F	1627	CYS
1	F	1671	PHE
1	F	1677	THR
1	F	1678	THR
1	F	1681	THR
1	F	1742	THR
1	F	1761	SER
1	F	1766	ARG
1	F	1799	TYR
1	F	1808	VAL
1	F	1819	LEU

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Mol	Chain	Res	Type
1	F	1824	LEU
1	F	1839	PRO
1	F	1842	LEU
1	F	1861	SER
1	F	1871	ARG
1	F	1874	SER
1	F	1884	SER
1	F	1925	ARG
1	F	1926	SER
2	I	13	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1212	GLN
1	A	1406	GLN
1	A	1421	GLN
1	A	1487	ASN
1	A	1563	GLN
1	B	909	ASN
1	B	1212	GLN
1	B	1293	GLN
1	B	1536	ASN
1	B	1549	ASN
1	B	1672	GLN
1	B	1701	GLN
1	C	612	GLN
1	D	1212	GLN
1	E	1672	GLN
1	F	1536	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

358 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	HYP	I	17	2	6,8,9	0.43	0	5,10,12	1.20	1 (20%)
1	HYP	A	1865	1	6,8,9	0.51	0	5,10,12	1.65	1 (20%)
2	HYP	I	20	2	6,8,9	0.49	0	5,10,12	1.27	1 (20%)
1	HYP	E	1858	1	6,8,9	0.51	0	5,10,12	1.67	1 (20%)
1	HYP	E	1860	1	6,8,9	0.55	0	5,10,12	1.86	3 (60%)
1	HYP	A	1930	1	6,8,9	0.52	0	5,10,12	1.66	1 (20%)
1	HYP	D	1899	1	6,8,9	0.46	0	5,10,12	1.70	2 (40%)
1	HYP	B	1905	1	6,8,9	0.39	0	5,10,12	1.19	1 (20%)
1	HYP	B	1912	1	6,8,9	0.38	0	5,10,12	1.24	1 (20%)
1	HYP	A	1929	1	6,8,9	0.40	0	5,10,12	1.24	1 (20%)
2	HYP	G	56	2	6,8,9	0.44	0	5,10,12	1.25	1 (20%)
2	HYP	G	4	2	6,8,9	0.52	0	5,10,12	1.38	1 (20%)
2	HYP	G	52	2	6,8,9	0.51	0	5,10,12	1.65	1 (20%)
1	HYP	A	1927	1	6,8,9	0.52	0	5,10,12	1.41	1 (20%)
1	HYP	D	1927	1	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
1	HYP	F	1920	1	6,8,9	0.54	0	5,10,12	1.55	1 (20%)
1	HYP	A	1883	1	6,8,9	0.50	0	5,10,12	2.15	2 (40%)
1	HYP	E	1857	1	6,8,9	0.52	0	5,10,12	1.56	1 (20%)
2	HYP	H	51	2	6,8,9	0.50	0	5,10,12	1.62	1 (20%)
1	HYP	A	1863	1	6,8,9	0.48	0	5,10,12	1.36	1 (20%)
2	HYP	G	17	2	6,8,9	0.37	0	5,10,12	1.26	1 (20%)
1	HYP	D	1918	1	6,8,9	0.49	0	5,10,12	1.82	2 (40%)
2	HYP	G	47	2	6,8,9	0.39	0	5,10,12	1.27	1 (20%)
2	HYP	I	4	2	6,8,9	0.49	0	5,10,12	1.27	1 (20%)
1	HYP	A	1921	1	6,8,9	0.40	0	5,10,12	1.37	1 (20%)
2	HYP	G	14	2	6,8,9	0.39	0	5,10,12	1.32	1 (20%)
1	HYP	C	1899	1	6,8,9	0.37	0	5,10,12	1.28	1 (20%)
1	HYP	C	1906	1	6,8,9	0.40	0	5,10,12	1.16	1 (20%)
1	HYP	E	1911	1	6,8,9	0.41	0	5,10,12	1.22	1 (20%)
2	HYP	H	50	2	6,8,9	0.38	0	5,10,12	1.20	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	A	1875	1	6,8,9	0.45	0	5,10,12	1.19	1 (20%)
1	HYP	A	1928	1	6,8,9	0.42	0	5,10,12	1.13	1 (20%)
1	HYP	A	1923	1	6,8,9	0.52	0	5,10,12	1.88	3 (60%)
1	HYP	B	1856	1	6,8,9	0.49	0	5,10,12	1.26	1 (20%)
1	HYP	E	1931	1	6,8,9	0.43	0	5,10,12	1.32	1 (20%)
2	HYP	I	7	2	6,8,9	0.50	0	5,10,12	1.63	1 (20%)
1	HYP	A	1916	1	6,8,9	0.52	0	5,10,12	1.45	1 (20%)
1	HYP	E	1870	1	6,8,9	0.48	0	5,10,12	1.56	2 (40%)
1	HYP	A	1887	1	6,8,9	0.41	0	5,10,12	1.23	1 (20%)
1	HYP	D	1928	1	6,8,9	0.43	0	5,10,12	1.13	1 (20%)
1	HYP	E	1913	1	6,8,9	0.36	0	5,10,12	1.18	1 (20%)
1	HYP	B	1892	1	6,8,9	0.37	0	5,10,12	1.23	1 (20%)
1	HYP	A	1885	1	6,8,9	0.38	0	5,10,12	1.20	1 (20%)
1	HYP	F	1906	1	6,8,9	0.42	0	5,10,12	1.30	1 (20%)
1	HYP	B	1867	1	6,8,9	0.49	0	5,10,12	1.64	1 (20%)
1	HYP	E	1898	1	6,8,9	0.41	0	5,10,12	1.18	1 (20%)
1	HYP	A	1914	1	6,8,9	0.50	0	5,10,12	1.38	1 (20%)
1	HYP	E	1912	1	6,8,9	0.46	0	5,10,12	1.27	1 (20%)
1	HYP	B	1921	1	6,8,9	0.40	0	5,10,12	1.22	1 (20%)
1	HYP	B	1866	1	6,8,9	0.48	0	5,10,12	1.30	1 (20%)
1	HYP	E	1921	1	6,8,9	0.38	0	5,10,12	1.31	1 (20%)
1	HYP	A	1873	1	6,8,9	0.47	0	5,10,12	1.21	1 (20%)
2	HYP	I	34	2	6,8,9	0.50	0	5,10,12	1.61	1 (20%)
1	HYP	E	1899	1	6,8,9	0.37	0	5,10,12	1.29	1 (20%)
1	HYP	B	1893	1	6,8,9	0.40	0	5,10,12	1.23	1 (20%)
1	HYP	D	1910	1	6,8,9	0.43	0	5,10,12	1.14	1 (20%)
2	HYP	G	40	2	6,8,9	0.39	0	5,10,12	1.14	1 (20%)
1	HYP	C	1930	1	6,8,9	0.53	0	5,10,12	1.72	1 (20%)
1	HYP	B	1920	1	6,8,9	0.53	0	5,10,12	1.37	1 (20%)
2	HYP	G	42	2	6,8,9	0.37	0	5,10,12	1.25	1 (20%)
1	HYP	F	1868	1	6,8,9	0.52	0	5,10,12	2.02	3 (60%)
1	HYP	E	1894	1	6,8,9	0.38	0	5,10,12	1.25	1 (20%)
1	HYP	F	1903	1	6,8,9	0.55	0	5,10,12	1.70	2 (40%)
2	HYP	I	29	2	6,8,9	0.43	0	5,10,12	1.20	1 (20%)
1	HYP	E	1887	1	6,8,9	0.44	0	5,10,12	1.22	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	HYP	H	56	2	6,8,9	0.44	0	5,10,12	1.24	1 (20%)
1	HYP	F	1865	1	6,8,9	0.55	0	5,10,12	1.64	1 (20%)
2	HYP	G	41	2	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
1	HYP	B	1899	1	6,8,9	0.38	0	5,10,12	1.42	1 (20%)
1	HYP	F	1902	1	6,8,9	0.50	0	5,10,12	1.69	1 (20%)
1	HYP	F	1929	1	6,8,9	0.43	0	5,10,12	1.19	1 (20%)
1	HYP	B	1914	1	6,8,9	0.47	0	5,10,12	1.52	1 (20%)
1	HYP	E	1872	1	6,8,9	0.52	0	5,10,12	1.27	1 (20%)
1	HYP	E	1914	1	6,8,9	0.50	0	5,10,12	1.25	1 (20%)
1	HYP	F	1928	1	6,8,9	0.44	0	5,10,12	1.25	1 (20%)
1	HYP	B	1890	1	6,8,9	0.45	0	5,10,12	1.19	1 (20%)
1	HYP	C	1910	1	6,8,9	0.46	0	5,10,12	1.17	1 (20%)
1	HYP	E	1862	1	6,8,9	0.53	0	5,10,12	1.47	1 (20%)
1	HYP	C	1923	1	6,8,9	0.53	0	5,10,12	1.93	2 (40%)
1	HYP	A	1910	1	6,8,9	0.39	0	5,10,12	1.15	1 (20%)
1	HYP	E	1928	1	6,8,9	0.43	0	5,10,12	1.22	1 (20%)
1	HYP	A	1898	1	6,8,9	0.42	0	5,10,12	1.21	1 (20%)
1	HYP	F	1931	1	6,8,9	0.41	0	5,10,12	1.35	1 (20%)
1	HYP	A	1920	1	6,8,9	0.53	0	5,10,12	1.55	1 (20%)
1	HYP	F	1870	1	6,8,9	0.50	0	5,10,12	1.57	1 (20%)
1	HYP	B	1917	1	6,8,9	0.54	0	5,10,12	1.65	1 (20%)
1	HYP	B	1888	1	6,8,9	0.54	0	5,10,12	1.68	2 (40%)
1	HYP	B	1931	1	6,8,9	0.46	0	5,10,12	1.41	1 (20%)
1	HYP	A	1862	1	6,8,9	0.53	0	5,10,12	1.43	1 (20%)
2	HYP	I	5	2	6,8,9	0.36	0	5,10,12	1.42	1 (20%)
1	HYP	C	1916	1	6,8,9	0.50	0	5,10,12	1.18	1 (20%)
1	HYP	F	1923	1	6,8,9	0.53	0	5,10,12	2.08	3 (60%)
2	HYP	G	11	2	6,8,9	0.48	0	5,10,12	1.93	2 (40%)
2	HYP	G	1	2	6,8,9	0.47	0	5,10,12	1.19	1 (20%)
1	HYP	A	1860	1	6,8,9	0.52	0	5,10,12	1.77	2 (40%)
1	HYP	E	1910	1	6,8,9	0.42	0	5,10,12	1.18	1 (20%)
1	HYP	B	1877	1	6,8,9	0.51	0	5,10,12	1.64	1 (20%)
1	HYP	E	1923	1	6,8,9	0.48	0	5,10,12	2.08	2 (40%)
1	HYP	F	1883	1	6,8,9	0.48	0	5,10,12	1.96	2 (40%)
2	HYP	G	37	2	6,8,9	0.45	0	5,10,12	0.96	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	HYP	G	51	2	6,8,9	0.51	0	5,10,12	1.59	1 (20%)
1	HYP	E	1883	1	6,8,9	0.47	0	5,10,12	2.01	2 (40%)
1	HYP	B	1855	1	6,8,9	0.51	0	5,10,12	1.17	1 (20%)
1	HYP	F	1887	1	6,8,9	0.40	0	5,10,12	1.15	1 (20%)
1	HYP	F	1873	1	6,8,9	0.45	0	5,10,12	1.27	1 (20%)
1	HYP	F	1875	1	6,8,9	0.39	0	5,10,12	1.15	1 (20%)
1	HYP	F	1882	1	6,8,9	0.42	0	5,10,12	1.17	1 (20%)
1	HYP	A	1902	1	6,8,9	0.54	0	5,10,12	1.60	1 (20%)
1	HYP	B	1911	1	6,8,9	0.39	0	5,10,12	1.18	1 (20%)
1	HYP	A	1931	1	6,8,9	0.49	0	5,10,12	1.41	1 (20%)
1	HYP	C	1911	1	6,8,9	0.42	0	5,10,12	1.20	1 (20%)
1	HYP	B	1932	1	6,8,9	0.51	0	5,10,12	1.55	1 (20%)
1	HYP	E	1877	1	6,8,9	0.51	0	5,10,12	1.76	2 (40%)
2	HYP	H	52	2	6,8,9	0.49	0	5,10,12	1.73	2 (40%)
1	HYP	C	1905	1	6,8,9	0.42	0	5,10,12	1.17	1 (20%)
1	HYP	B	1908	1	6,8,9	0.57	0	5,10,12	2.10	3 (60%)
2	HYP	G	49	2	6,8,9	0.51	0	5,10,12	1.48	1 (20%)
1	HYP	E	1873	1	6,8,9	0.46	0	5,10,12	1.32	1 (20%)
1	HYP	F	1864	1	6,8,9	0.51	0	5,10,12	1.43	1 (20%)
1	HYP	F	1858	1	6,8,9	0.54	0	5,10,12	1.69	1 (20%)
1	HYP	B	1880	1	6,8,9	0.42	0	5,10,12	1.34	1 (20%)
1	HYP	E	1918	1	6,8,9	0.48	0	5,10,12	1.70	2 (40%)
1	HYP	D	1908	1	6,8,9	0.54	0	5,10,12	1.70	2 (40%)
2	HYP	G	55	2	6,8,9	0.46	0	5,10,12	1.19	1 (20%)
1	HYP	C	1898	1	6,8,9	0.46	0	5,10,12	1.19	1 (20%)
1	HYP	E	1893	1	6,8,9	0.43	0	5,10,12	1.24	1 (20%)
1	HYP	D	1901	1	6,8,9	0.37	0	5,10,12	1.18	1 (20%)
2	HYP	H	44	2	6,8,9	0.50	0	5,10,12	1.63	1 (20%)
2	HYP	I	26	2	6,8,9	0.52	0	5,10,12	1.48	2 (40%)
1	HYP	C	1897	1	6,8,9	0.46	0	5,10,12	1.28	1 (20%)
1	HYP	E	1885	1	6,8,9	0.51	0	5,10,12	1.39	1 (20%)
1	HYP	B	1864	1	6,8,9	0.51	0	5,10,12	1.47	1 (20%)
1	HYP	C	1908	1	6,8,9	0.54	0	5,10,12	1.91	3 (60%)
1	HYP	E	1901	1	6,8,9	0.53	0	5,10,12	1.42	1 (20%)
1	HYP	A	1907	1	6,8,9	0.44	0	5,10,12	1.86	2 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	A	1892	1	6,8,9	0.37	0	5,10,12	1.34	1 (20%)
1	HYP	A	1867	1	6,8,9	0.48	0	5,10,12	1.58	1 (20%)
1	HYP	D	1906	1	6,8,9	0.44	0	5,10,12	1.34	1 (20%)
2	HYP	H	46	2	6,8,9	0.48	0	5,10,12	1.60	1 (20%)
2	HYP	G	2	2	6,8,9	0.50	0	5,10,12	1.63	1 (20%)
1	HYP	C	1921	1	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
2	HYP	G	46	2	6,8,9	0.52	0	5,10,12	1.54	1 (20%)
1	HYP	C	1929	1	6,8,9	0.38	0	5,10,12	1.25	1 (20%)
2	HYP	I	6	2	6,8,9	0.35	0	5,10,12	1.29	1 (20%)
1	HYP	B	1868	1	6,8,9	0.49	0	5,10,12	1.97	2 (40%)
1	HYP	C	1902	1	6,8,9	0.54	0	5,10,12	1.77	2 (40%)
1	HYP	F	1912	1	6,8,9	0.41	0	5,10,12	1.15	1 (20%)
1	HYP	E	1908	1	6,8,9	0.54	0	5,10,12	2.07	3 (60%)
1	HYP	A	1918	1	6,8,9	0.51	0	5,10,12	1.60	1 (20%)
1	HYP	A	1858	1	6,8,9	0.38	0	5,10,12	1.22	1 (20%)
1	HYP	B	1929	1	6,8,9	0.41	0	5,10,12	1.36	1 (20%)
1	HYP	B	1913	1	6,8,9	0.38	0	5,10,12	1.31	1 (20%)
1	HYP	F	1862	1	6,8,9	0.49	0	5,10,12	1.35	1 (20%)
1	HYP	F	1927	1	6,8,9	0.39	0	5,10,12	1.14	1 (20%)
1	HYP	F	1894	1	6,8,9	0.48	0	5,10,12	1.93	2 (40%)
1	HYP	E	1927	1	6,8,9	0.40	0	5,10,12	1.19	1 (20%)
1	HYP	F	1901	1	6,8,9	0.38	0	5,10,12	1.14	1 (20%)
1	HYP	C	1931	1	6,8,9	0.44	0	5,10,12	1.38	1 (20%)
1	HYP	F	1872	1	6,8,9	0.48	0	5,10,12	1.23	1 (20%)
1	HYP	C	1917	1	6,8,9	0.53	0	5,10,12	1.46	1 (20%)
1	HYP	A	1856	1	6,8,9	0.52	0	5,10,12	1.33	1 (20%)
2	HYP	H	41	2	6,8,9	0.43	0	5,10,12	1.27	1 (20%)
1	HYP	E	1892	1	6,8,9	0.38	0	5,10,12	1.27	1 (20%)
2	HYP	G	50	2	6,8,9	0.41	0	5,10,12	1.18	1 (20%)
1	HYP	B	1897	1	6,8,9	0.43	0	5,10,12	1.14	1 (20%)
1	HYP	F	1857	1	6,8,9	0.52	0	5,10,12	1.58	1 (20%)
1	HYP	E	1867	1	6,8,9	0.53	0	5,10,12	1.78	1 (20%)
1	HYP	F	1890	1	6,8,9	0.39	0	5,10,12	1.15	1 (20%)
2	HYP	I	23	2	6,8,9	0.37	0	5,10,12	1.41	1 (20%)
2	HYP	G	29	2	6,8,9	0.41	0	5,10,12	1.21	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	HYP	H	45	2	6,8,9	0.38	0	5,10,12	1.19	1 (20%)
1	HYP	A	1922	1	6,8,9	0.55	0	5,10,12	1.72	1 (20%)
1	HYP	B	1901	1	6,8,9	0.42	0	5,10,12	1.16	1 (20%)
1	HYP	C	1907	1	6,8,9	0.51	0	5,10,12	1.73	2 (40%)
1	HYP	A	1932	1	6,8,9	0.52	0	5,10,12	1.78	3 (60%)
2	HYP	H	55	2	6,8,9	0.44	0	5,10,12	1.19	1 (20%)
1	HYP	A	1912	1	6,8,9	0.39	0	5,10,12	1.21	1 (20%)
2	HYP	G	33	2	6,8,9	0.51	0	5,10,12	1.61	1 (20%)
1	HYP	A	1908	1	6,8,9	0.53	0	5,10,12	2.18	3 (60%)
1	HYP	A	1866	1	6,8,9	0.51	0	5,10,12	1.46	1 (20%)
1	HYP	B	1873	1	6,8,9	0.48	0	5,10,12	1.35	1 (20%)
1	HYP	B	1906	1	6,8,9	0.39	0	5,10,12	1.16	1 (20%)
1	HYP	B	1882	1	6,8,9	0.39	0	5,10,12	1.21	1 (20%)
1	HYP	F	1910	1	6,8,9	0.40	0	5,10,12	1.13	1 (20%)
1	HYP	B	1928	1	6,8,9	0.53	0	5,10,12	1.52	1 (20%)
1	HYP	B	1857	1	6,8,9	0.55	0	5,10,12	1.60	1 (20%)
1	HYP	F	1913	1	6,8,9	0.38	0	5,10,12	1.24	1 (20%)
1	HYP	F	1930	1	6,8,9	0.49	0	5,10,12	1.52	1 (20%)
2	HYP	I	9	2	6,8,9	0.51	0	5,10,12	1.55	1 (20%)
2	HYP	H	37	2	6,8,9	0.49	0	5,10,12	1.15	1 (20%)
1	HYP	C	1901	1	6,8,9	0.37	0	5,10,12	1.16	1 (20%)
2	HYP	H	47	2	6,8,9	0.39	0	5,10,12	1.26	1 (20%)
2	HYP	G	8	2	6,8,9	0.50	0	5,10,12	1.59	1 (20%)
1	HYP	F	1922	1	6,8,9	0.54	0	5,10,12	1.57	1 (20%)
1	HYP	B	1865	1	6,8,9	0.49	0	5,10,12	1.68	1 (20%)
1	HYP	F	1899	1	6,8,9	0.37	0	5,10,12	1.29	1 (20%)
1	HYP	D	1905	1	6,8,9	0.39	0	5,10,12	1.18	1 (20%)
1	HYP	A	1880	1	6,8,9	0.41	0	5,10,12	1.38	1 (20%)
2	HYP	G	3	2	6,8,9	0.53	0	5,10,12	1.61	1 (20%)
1	HYP	C	1915	1	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
1	HYP	B	1887	1	6,8,9	0.40	0	5,10,12	1.27	1 (20%)
1	HYP	F	1918	1	6,8,9	0.49	0	5,10,12	1.98	2 (40%)
1	HYP	E	1907	1	6,8,9	0.44	0	5,10,12	1.64	2 (40%)
1	HYP	B	1915	1	6,8,9	0.43	0	5,10,12	1.26	1 (20%)
1	HYP	E	1863	1	6,8,9	0.50	0	5,10,12	1.42	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	F	1916	1	6,8,9	0.49	0	5,10,12	1.26	1 (20%)
2	HYP	G	5	2	6,8,9	0.36	0	5,10,12	1.17	1 (20%)
1	HYP	D	1922	1	6,8,9	0.50	0	5,10,12	1.40	1 (20%)
1	HYP	E	1880	1	6,8,9	0.48	0	5,10,12	1.44	1 (20%)
1	HYP	F	1915	1	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
1	HYP	C	1912	1	6,8,9	0.38	0	5,10,12	1.18	1 (20%)
1	HYP	E	1888	1	6,8,9	0.44	0	5,10,12	1.82	2 (40%)
1	HYP	A	1890	1	6,8,9	0.48	0	5,10,12	1.23	1 (20%)
1	HYP	B	1923	1	6,8,9	0.54	0	5,10,12	1.96	3 (60%)
1	HYP	F	1885	1	6,8,9	0.45	0	5,10,12	1.22	1 (20%)
1	HYP	D	1929	1	6,8,9	0.38	0	5,10,12	1.20	1 (20%)
1	HYP	E	1916	1	6,8,9	0.51	0	5,10,12	1.33	1 (20%)
2	HYP	G	45	2	6,8,9	0.41	0	5,10,12	1.26	1 (20%)
1	HYP	E	1855	1	6,8,9	0.51	0	5,10,12	1.20	1 (20%)
1	HYP	C	1913	1	6,8,9	0.38	0	5,10,12	1.24	1 (20%)
1	HYP	F	1905	1	6,8,9	0.37	0	5,10,12	1.26	1 (20%)
1	HYP	A	1857	1	6,8,9	0.50	0	5,10,12	1.32	1 (20%)
1	HYP	D	1913	1	6,8,9	0.38	0	5,10,12	1.23	1 (20%)
1	HYP	A	1893	1	6,8,9	0.37	0	5,10,12	1.28	1 (20%)
1	HYP	B	1862	1	6,8,9	0.53	0	5,10,12	1.45	1 (20%)
1	HYP	E	1902	1	6,8,9	0.48	0	5,10,12	1.67	1 (20%)
1	HYP	E	1878	1	6,8,9	0.52	0	5,10,12	1.90	2 (40%)
1	HYP	C	1927	1	6,8,9	0.40	0	5,10,12	1.20	1 (20%)
1	HYP	C	1922	1	6,8,9	0.53	0	5,10,12	1.47	1 (20%)
2	HYP	I	32	2	6,8,9	0.42	0	5,10,12	1.15	1 (20%)
1	HYP	E	1932	1	6,8,9	0.52	0	5,10,12	1.45	1 (20%)
1	HYP	F	1866	1	6,8,9	0.52	0	5,10,12	1.35	1 (20%)
1	HYP	D	1897	1	6,8,9	0.42	0	5,10,12	1.23	1 (20%)
2	HYP	G	34	2	6,8,9	0.48	0	5,10,12	1.67	2 (40%)
1	HYP	C	1932	1	6,8,9	0.51	0	5,10,12	1.84	2 (40%)
2	HYP	I	8	2	6,8,9	0.51	0	5,10,12	1.50	1 (20%)
1	HYP	A	1877	1	6,8,9	0.47	0	5,10,12	1.32	1 (20%)
1	HYP	D	1915	1	6,8,9	0.39	0	5,10,12	1.23	1 (20%)
1	HYP	F	1856	1	6,8,9	0.52	0	5,10,12	1.35	1 (20%)
2	HYP	I	2	2	6,8,9	0.48	0	5,10,12	1.45	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	C	1914	1	6,8,9	0.49	0	5,10,12	1.42	1 (20%)
1	HYP	F	1911	1	6,8,9	0.43	0	5,10,12	1.15	1 (20%)
1	HYP	A	1878	1	6,8,9	0.52	0	5,10,12	1.70	2 (40%)
1	HYP	B	1894	1	6,8,9	0.50	0	5,10,12	1.95	2 (40%)
1	HYP	D	1930	1	6,8,9	0.40	0	5,10,12	1.26	1 (20%)
1	HYP	F	1908	1	6,8,9	0.57	0	5,10,12	1.79	2 (40%)
1	HYP	B	1870	1	6,8,9	0.52	0	5,10,12	1.54	1 (20%)
2	HYP	I	3	2	6,8,9	0.52	0	5,10,12	1.63	1 (20%)
1	HYP	B	1903	1	6,8,9	0.55	0	5,10,12	1.92	3 (60%)
1	HYP	B	1930	1	6,8,9	0.52	0	5,10,12	1.62	1 (20%)
1	HYP	B	1872	1	6,8,9	0.44	0	5,10,12	1.33	1 (20%)
1	HYP	F	1892	1	6,8,9	0.35	0	5,10,12	1.24	1 (20%)
2	HYP	H	43	2	6,8,9	0.49	0	5,10,12	1.48	1 (20%)
1	HYP	F	1914	1	6,8,9	0.51	0	5,10,12	1.45	1 (20%)
1	HYP	D	1914	1	6,8,9	0.46	0	5,10,12	1.10	1 (20%)
1	HYP	D	1898	1	6,8,9	0.41	0	5,10,12	1.23	1 (20%)
1	HYP	F	1863	1	6,8,9	0.51	0	5,10,12	1.39	1 (20%)
1	HYP	E	1866	1	6,8,9	0.54	0	5,10,12	1.41	1 (20%)
2	HYP	I	14	2	6,8,9	0.37	0	5,10,12	1.26	1 (20%)
1	HYP	A	1915	1	6,8,9	0.40	0	5,10,12	1.23	1 (20%)
1	HYP	B	1883	1	6,8,9	0.47	0	5,10,12	2.01	2 (40%)
1	HYP	D	1907	1	6,8,9	0.50	0	5,10,12	1.58	1 (20%)
1	HYP	E	1905	1	6,8,9	0.43	0	5,10,12	1.23	1 (20%)
2	HYP	G	26	2	6,8,9	0.38	0	5,10,12	1.15	1 (20%)
1	HYP	F	1921	1	6,8,9	0.37	0	5,10,12	1.34	1 (20%)
1	HYP	D	1921	1	6,8,9	0.43	0	5,10,12	1.22	1 (20%)
1	HYP	E	1856	1	6,8,9	0.51	0	5,10,12	1.30	1 (20%)
1	HYP	B	1898	1	6,8,9	0.40	0	5,10,12	1.25	1 (20%)
1	HYP	B	1878	1	6,8,9	0.51	0	5,10,12	1.84	2 (40%)
1	HYP	D	1917	1	6,8,9	0.51	0	5,10,12	1.51	1 (20%)
1	HYP	E	1868	1	6,8,9	0.52	0	5,10,12	1.79	2 (40%)
2	HYP	H	48	2	6,8,9	0.38	0	5,10,12	1.20	1 (20%)
1	HYP	F	1898	1	6,8,9	0.42	0	5,10,12	1.16	1 (20%)
1	HYP	B	1907	1	6,8,9	0.51	0	5,10,12	1.65	1 (20%)
2	HYP	G	44	2	6,8,9	0.52	0	5,10,12	1.52	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	D	1916	1	6,8,9	0.51	0	5,10,12	1.39	1 (20%)
1	HYP	B	1922	1	6,8,9	0.53	0	5,10,12	1.61	1 (20%)
1	HYP	D	1932	1	6,8,9	0.53	0	5,10,12	1.81	3 (60%)
1	HYP	F	1867	1	6,8,9	0.50	0	5,10,12	1.64	1 (20%)
2	HYP	G	32	2	6,8,9	0.49	0	5,10,12	1.41	1 (20%)
1	HYP	F	1877	1	6,8,9	0.51	0	5,10,12	1.55	1 (20%)
1	HYP	A	1870	1	6,8,9	0.50	0	5,10,12	1.57	2 (40%)
1	HYP	B	1927	1	6,8,9	0.41	0	5,10,12	1.20	1 (20%)
1	HYP	B	1916	1	6,8,9	0.52	0	5,10,12	1.45	1 (20%)
1	HYP	E	1897	1	6,8,9	0.45	0	5,10,12	1.19	1 (20%)
1	HYP	E	1922	1	6,8,9	0.55	0	5,10,12	1.52	1 (20%)
2	HYP	G	10	2	6,8,9	0.54	0	5,10,12	1.64	1 (20%)
1	HYP	B	1858	1	6,8,9	0.36	0	5,10,12	1.38	1 (20%)
1	HYP	E	1882	1	6,8,9	0.41	0	5,10,12	1.22	1 (20%)
1	HYP	B	1875	1	6,8,9	0.42	0	5,10,12	1.16	1 (20%)
1	HYP	E	1903	1	6,8,9	0.51	0	5,10,12	1.87	2 (40%)
1	HYP	C	1918	1	6,8,9	0.52	0	5,10,12	1.76	2 (40%)
1	HYP	E	1865	1	6,8,9	0.52	0	5,10,12	1.63	1 (20%)
1	HYP	C	1903	1	6,8,9	0.51	0	5,10,12	1.79	2 (40%)
1	HYP	D	1911	1	6,8,9	0.45	0	5,10,12	1.19	1 (20%)
1	HYP	A	1905	1	6,8,9	0.39	0	5,10,12	1.21	1 (20%)
2	HYP	I	10	2	6,8,9	0.52	0	5,10,12	1.70	1 (20%)
1	HYP	A	1913	1	6,8,9	0.38	0	5,10,12	1.27	1 (20%)
1	HYP	E	1929	1	6,8,9	0.36	0	5,10,12	1.23	1 (20%)
1	HYP	E	1906	1	6,8,9	0.37	0	5,10,12	1.22	1 (20%)
1	HYP	D	1923	1	6,8,9	0.50	0	5,10,12	1.82	3 (60%)
1	HYP	A	1917	1	6,8,9	0.51	0	5,10,12	1.59	1 (20%)
1	HYP	A	1868	1	6,8,9	0.50	0	5,10,12	1.92	3 (60%)
1	HYP	B	1918	1	6,8,9	0.56	0	5,10,12	1.59	1 (20%)
1	HYP	A	1903	1	6,8,9	0.55	0	5,10,12	1.77	2 (40%)
1	HYP	A	1872	1	6,8,9	0.47	0	5,10,12	1.31	1 (20%)
2	HYP	G	20	2	6,8,9	0.51	0	5,10,12	1.32	1 (20%)
1	HYP	F	1893	1	6,8,9	0.38	0	5,10,12	1.30	1 (20%)
1	HYP	D	1920	1	6,8,9	0.53	0	5,10,12	1.48	1 (20%)
1	HYP	A	1894	1	6,8,9	0.50	0	5,10,12	1.88	2 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	A	1899	1	6,8,9	0.38	0	5,10,12	1.39	1 (20%)
1	HYP	F	1917	1	6,8,9	0.51	0	5,10,12	1.39	1 (20%)
1	HYP	E	1890	1	6,8,9	0.41	0	5,10,12	1.12	1 (20%)
2	HYP	G	23	2	6,8,9	0.39	0	5,10,12	1.46	1 (20%)
2	HYP	G	6	2	6,8,9	0.46	0	5,10,12	1.52	1 (20%)
1	HYP	B	1910	1	6,8,9	0.45	0	5,10,12	1.16	1 (20%)
1	HYP	A	1911	1	6,8,9	0.39	0	5,10,12	1.20	1 (20%)
1	HYP	B	1885	1	6,8,9	0.42	0	5,10,12	1.16	1 (20%)
1	HYP	E	1915	1	6,8,9	0.37	0	5,10,12	1.14	1 (20%)
1	HYP	E	1920	1	6,8,9	0.53	0	5,10,12	1.45	1 (20%)
1	HYP	F	1897	1	6,8,9	0.45	0	5,10,12	1.28	1 (20%)
1	HYP	E	1930	1	6,8,9	0.36	0	5,10,12	1.21	1 (20%)
1	HYP	C	1928	1	6,8,9	0.39	0	5,10,12	1.26	1 (20%)
1	HYP	F	1860	1	6,8,9	0.57	0	5,10,12	1.56	1 (20%)
1	HYP	A	1888	1	6,8,9	0.52	0	5,10,12	1.52	1 (20%)
1	HYP	F	1907	1	6,8,9	0.52	0	5,10,12	1.74	2 (40%)
1	HYP	A	1855	1	6,8,9	0.49	0	5,10,12	1.16	1 (20%)
1	HYP	F	1880	1	6,8,9	0.42	0	5,10,12	1.42	1 (20%)
2	HYP	H	49	2	6,8,9	0.52	0	5,10,12	1.47	1 (20%)
1	HYP	A	1864	1	6,8,9	0.51	0	5,10,12	1.48	1 (20%)
1	HYP	E	1917	1	6,8,9	0.53	0	5,10,12	1.37	1 (20%)
2	HYP	G	43	2	6,8,9	0.49	0	5,10,12	1.47	1 (20%)
1	HYP	B	1860	1	6,8,9	0.51	0	5,10,12	1.71	2 (40%)
1	HYP	F	1888	1	6,8,9	0.44	0	5,10,12	1.85	2 (40%)
1	HYP	D	1903	1	6,8,9	0.55	0	5,10,12	1.74	2 (40%)
1	HYP	A	1906	1	6,8,9	0.39	0	5,10,12	1.35	1 (20%)
1	HYP	F	1855	1	6,8,9	0.56	0	5,10,12	1.43	1 (20%)
1	HYP	A	1897	1	6,8,9	0.43	0	5,10,12	1.26	1 (20%)
1	HYP	E	1875	1	6,8,9	0.45	0	5,10,12	1.17	1 (20%)
2	HYP	I	1	2	6,8,9	0.49	0	5,10,12	1.25	1 (20%)
1	HYP	A	1901	1	6,8,9	0.40	0	5,10,12	1.16	1 (20%)
1	HYP	D	1902	1	6,8,9	0.49	0	5,10,12	1.74	2 (40%)
1	HYP	F	1878	1	6,8,9	0.55	0	5,10,12	1.54	1 (20%)
2	HYP	G	7	2	6,8,9	0.38	0	5,10,12	1.36	1 (20%)
2	HYP	G	48	2	6,8,9	0.41	0	5,10,12	1.20	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HYP	D	1931	1	6,8,9	0.45	0	5,10,12	1.39	1 (20%)
2	HYP	H	40	2	6,8,9	0.39	0	5,10,12	1.12	1 (20%)
2	HYP	G	9	2	6,8,9	0.48	0	5,10,12	1.76	2 (40%)
1	HYP	B	1863	1	6,8,9	0.51	0	5,10,12	1.43	1 (20%)
2	HYP	I	33	2	6,8,9	0.47	0	5,10,12	1.25	1 (20%)
1	HYP	F	1932	1	6,8,9	0.49	0	5,10,12	1.71	2 (40%)
2	HYP	I	11	2	6,8,9	0.48	0	5,10,12	1.79	2 (40%)
2	HYP	H	42	2	6,8,9	0.37	0	5,10,12	1.23	1 (20%)
1	HYP	D	1912	1	6,8,9	0.46	0	5,10,12	1.30	1 (20%)
1	HYP	B	1902	1	6,8,9	0.52	0	5,10,12	1.59	1 (20%)
1	HYP	C	1920	1	6,8,9	0.52	0	5,10,12	1.47	1 (20%)
1	HYP	A	1882	1	6,8,9	0.40	0	5,10,12	1.21	1 (20%)
1	HYP	E	1864	1	6,8,9	0.54	0	5,10,12	1.55	1 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	HYP	I	17	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1865	1	-	0/0/11/13	0/1/1/1
2	HYP	I	20	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1858	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1860	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1930	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1905	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1912	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1929	1	-	0/0/11/13	0/1/1/1
2	HYP	G	56	2	-	0/0/11/13	0/1/1/1
2	HYP	G	4	2	-	0/0/11/13	0/1/1/1
2	HYP	G	52	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1920	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1883	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1857	1	-	0/0/11/13	0/1/1/1
2	HYP	H	51	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1863	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	HYP	G	17	2	-	0/0/11/13	0/1/1/1
1	HYP	D	1918	1	-	0/0/11/13	0/1/1/1
2	HYP	G	47	2	-	0/0/11/13	0/1/1/1
2	HYP	I	4	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1921	1	-	0/0/11/13	0/1/1/1
2	HYP	G	14	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1906	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1911	1	-	0/0/11/13	0/1/1/1
2	HYP	H	50	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1875	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1923	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1856	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1931	1	-	0/0/11/13	0/1/1/1
2	HYP	I	7	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1916	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1870	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1887	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1892	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1885	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1906	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1867	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1912	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1921	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1866	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1921	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1873	1	-	0/0/11/13	0/1/1/1
2	HYP	I	34	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1893	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1910	1	-	0/0/11/13	0/1/1/1
2	HYP	G	40	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1930	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1920	1	-	0/0/11/13	0/1/1/1
2	HYP	G	42	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1868	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1894	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	F	1903	1	-	0/0/11/13	0/1/1/1
2	HYP	I	29	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1887	1	-	0/0/11/13	0/1/1/1
2	HYP	H	56	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1865	1	-	0/0/11/13	0/1/1/1
2	HYP	G	41	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1902	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1929	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1872	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1890	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1910	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1862	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1923	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1910	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1931	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1920	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1870	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1917	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1888	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1931	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1862	1	-	0/0/11/13	0/1/1/1
2	HYP	I	5	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1916	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1923	1	-	0/0/11/13	0/1/1/1
2	HYP	G	11	2	-	0/0/11/13	0/1/1/1
2	HYP	G	1	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1860	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1910	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1877	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1923	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1883	1	-	0/0/11/13	0/1/1/1
2	HYP	G	37	2	-	0/0/11/13	0/1/1/1
2	HYP	G	51	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1883	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1855	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1887	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	F	1873	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1875	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1882	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1902	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1911	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1931	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1911	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1932	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1877	1	-	0/0/11/13	0/1/1/1
2	HYP	H	52	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1905	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1908	1	-	0/0/11/13	0/1/1/1
2	HYP	G	49	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1873	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1864	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1858	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1880	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1918	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1908	1	-	0/0/11/13	0/1/1/1
2	HYP	G	55	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1893	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1901	1	-	0/0/11/13	0/1/1/1
2	HYP	H	44	2	-	0/0/11/13	0/1/1/1
2	HYP	I	26	2	1/1/2/4	0/0/11/13	0/1/1/1
1	HYP	C	1897	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1885	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1864	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1908	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1901	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1907	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1892	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1867	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1906	1	-	0/0/11/13	0/1/1/1
2	HYP	H	46	2	-	0/0/11/13	0/1/1/1
2	HYP	G	2	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1921	1	-	0/0/11/13	0/1/1/1
2	HYP	G	46	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1929	1	-	0/0/11/13	0/1/1/1
2	HYP	I	6	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1868	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1902	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	F	1912	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1908	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1918	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1858	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1929	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1862	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1894	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1901	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1931	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1872	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1917	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1856	1	-	0/0/11/13	0/1/1/1
2	HYP	H	41	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1892	1	-	0/0/11/13	0/1/1/1
2	HYP	G	50	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1897	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1857	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1867	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1890	1	-	0/0/11/13	0/1/1/1
2	HYP	I	23	2	1/1/2/4	0/0/11/13	0/1/1/1
2	HYP	G	29	2	-	0/0/11/13	0/1/1/1
2	HYP	H	45	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1922	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1901	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1907	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1932	1	-	0/0/11/13	0/1/1/1
2	HYP	H	55	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1912	1	-	0/0/11/13	0/1/1/1
2	HYP	G	33	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1908	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1866	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1873	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1906	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1882	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1910	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1857	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1930	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	HYP	I	9	2	-	0/0/11/13	0/1/1/1
2	HYP	H	37	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1901	1	-	0/0/11/13	0/1/1/1
2	HYP	H	47	2	-	0/0/11/13	0/1/1/1
2	HYP	G	8	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1922	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1865	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1905	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1880	1	-	0/0/11/13	0/1/1/1
2	HYP	G	3	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1887	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1918	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1907	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1863	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1916	1	-	0/0/11/13	0/1/1/1
2	HYP	G	5	2	-	0/0/11/13	0/1/1/1
1	HYP	D	1922	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1880	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1912	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1888	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1890	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1923	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1885	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1929	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1916	1	-	0/0/11/13	0/1/1/1
2	HYP	G	45	2	-	0/0/11/13	0/1/1/1
1	HYP	E	1855	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1905	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1857	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1893	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1862	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1902	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1878	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1922	1	-	0/0/11/13	0/1/1/1
2	HYP	I	32	2	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	E	1932	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1866	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1897	1	-	0/0/11/13	0/1/1/1
2	HYP	G	34	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1932	1	-	0/0/11/13	0/1/1/1
2	HYP	I	8	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1877	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1856	1	-	0/0/11/13	0/1/1/1
2	HYP	I	2	2	-	0/0/11/13	0/1/1/1
1	HYP	C	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1911	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1878	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1894	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1930	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1908	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1870	1	-	0/0/11/13	0/1/1/1
2	HYP	I	3	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1903	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1930	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1872	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1892	1	-	0/0/11/13	0/1/1/1
2	HYP	H	43	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1914	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1863	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1866	1	-	0/0/11/13	0/1/1/1
2	HYP	I	14	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1883	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1907	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1905	1	-	0/0/11/13	0/1/1/1
2	HYP	G	26	2	1/1/2/4	0/0/11/13	0/1/1/1
1	HYP	F	1921	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1921	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1856	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1878	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1917	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1868	1	-	0/0/11/13	0/1/1/1
2	HYP	H	48	2	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	F	1898	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1907	1	-	0/0/11/13	0/1/1/1
2	HYP	G	44	2	-	0/0/11/13	0/1/1/1
1	HYP	D	1916	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1922	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1932	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1867	1	-	0/0/11/13	0/1/1/1
2	HYP	G	32	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1877	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1870	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1927	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1916	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1897	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1922	1	-	0/0/11/13	0/1/1/1
2	HYP	G	10	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1858	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1882	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1875	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1903	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1918	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1865	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1903	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1911	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1905	1	-	0/0/11/13	0/1/1/1
2	HYP	I	10	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1913	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1929	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1906	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1923	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1917	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1868	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1918	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1903	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1872	1	-	0/0/11/13	0/1/1/1
2	HYP	G	20	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1893	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1920	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1894	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1899	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1917	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1890	1	-	0/0/11/13	0/1/1/1
2	HYP	G	23	2	1/1/2/4	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	HYP	G	6	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1910	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1911	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1885	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1915	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1920	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1897	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1930	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1928	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1860	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1888	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1907	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1855	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1880	1	-	0/0/11/13	0/1/1/1
2	HYP	H	49	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1864	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1917	1	-	0/0/11/13	0/1/1/1
2	HYP	G	43	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1860	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1888	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1903	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1906	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1855	1	-	0/0/11/13	0/1/1/1
1	HYP	A	1897	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1875	1	-	0/0/11/13	0/1/1/1
2	HYP	I	1	2	-	0/0/11/13	0/1/1/1
1	HYP	A	1901	1	-	0/0/11/13	0/1/1/1
1	HYP	D	1902	1	-	0/0/11/13	0/1/1/1
1	HYP	F	1878	1	-	0/0/11/13	0/1/1/1
2	HYP	G	7	2	-	0/0/11/13	0/1/1/1
2	HYP	G	48	2	-	0/0/11/13	0/1/1/1
1	HYP	D	1931	1	-	0/0/11/13	0/1/1/1
2	HYP	H	40	2	-	0/0/11/13	0/1/1/1
2	HYP	G	9	2	-	0/0/11/13	0/1/1/1
1	HYP	B	1863	1	-	0/0/11/13	0/1/1/1
2	HYP	I	33	2	-	0/0/11/13	0/1/1/1
1	HYP	F	1932	1	-	0/0/11/13	0/1/1/1
2	HYP	I	11	2	-	0/0/11/13	0/1/1/1
2	HYP	H	42	2	-	0/0/11/13	0/1/1/1
1	HYP	D	1912	1	-	0/0/11/13	0/1/1/1
1	HYP	B	1902	1	-	0/0/11/13	0/1/1/1
1	HYP	C	1920	1	-	0/0/11/13	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HYP	A	1882	1	-	0/0/11/13	0/1/1/1
1	HYP	E	1864	1	-	0/0/11/13	0/1/1/1

There are no bond length outliers.

All (434) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1883	HYP	CG-CB-CA	-3.50	99.55	103.96
1	A	1883	HYP	CG-CB-CA	-3.47	99.59	103.96
1	E	1923	HYP	CG-CB-CA	-3.37	99.71	103.96
1	F	1918	HYP	CG-CB-CA	-3.31	99.79	103.96
1	B	1883	HYP	CG-CB-CA	-3.27	99.84	103.96
1	F	1883	HYP	CG-CB-CA	-3.18	99.95	103.96
1	A	1908	HYP	CG-CB-CA	-3.13	100.00	103.96
2	G	11	HYP	CG-CB-CA	-3.06	100.09	103.96
1	F	1894	HYP	CG-CB-CA	-3.03	100.14	103.96
1	B	1894	HYP	CG-CB-CA	-2.98	100.19	103.96
1	F	1923	HYP	CG-CB-CA	-2.96	100.22	103.96
1	F	1888	HYP	CG-CB-CA	-2.96	100.22	103.96
2	I	10	HYP	O-C-CA	-2.93	117.10	124.78
2	I	34	HYP	O-C-CA	-2.93	117.11	124.78
1	B	1868	HYP	CG-CB-CA	-2.92	100.27	103.96
1	A	1907	HYP	CG-CB-CA	-2.92	100.27	103.96
2	G	10	HYP	O-C-CA	-2.92	117.12	124.78
1	E	1888	HYP	CG-CB-CA	-2.91	100.28	103.96
1	A	1908	HYP	O-C-CA	-2.87	117.25	124.78
1	B	1908	HYP	O-C-CA	-2.86	117.29	124.78
2	I	11	HYP	CG-CB-CA	-2.84	100.37	103.96
1	B	1907	HYP	O-C-CA	-2.83	117.37	124.78
1	E	1867	HYP	O-C-CA	-2.81	117.42	124.78
1	F	1868	HYP	CG-CB-CA	-2.80	100.42	103.96
1	E	1878	HYP	CG-CB-CA	-2.78	100.45	103.96
1	F	1857	HYP	O-C-CA	-2.78	117.49	124.78
1	A	1922	HYP	O-C-CA	-2.78	117.50	124.78
2	G	4	HYP	O-C-CA	-2.77	117.52	124.78
1	D	1906	HYP	O-C-CA	-2.76	117.55	124.78
1	A	1907	HYP	O-C-CA	-2.76	117.55	124.78
1	E	1908	HYP	CG-CB-CA	-2.76	100.48	103.96
1	B	1931	HYP	O-C-CA	-2.75	117.57	124.78
1	E	1860	HYP	CG-CB-CA	-2.74	100.50	103.96
1	E	1868	HYP	O-C-CA	-2.74	117.60	124.78
1	B	1917	HYP	O-C-CA	-2.74	117.60	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	1865	HYP	O-C-CA	-2.73	117.62	124.78
1	B	1872	HYP	O-C-CA	-2.73	117.63	124.78
1	A	1865	HYP	O-C-CA	-2.72	117.64	124.78
1	B	1858	HYP	O-C-CA	-2.72	117.64	124.78
1	D	1918	HYP	O-C-CA	-2.72	117.64	124.78
1	A	1917	HYP	O-C-CA	-2.71	117.67	124.78
1	F	1893	HYP	O-C-CA	-2.70	117.69	124.78
1	B	1914	HYP	O-C-CA	-2.70	117.70	124.78
1	E	1858	HYP	O-C-CA	-2.70	117.70	124.78
1	F	1868	HYP	O-C-CA	-2.70	117.70	124.78
1	F	1880	HYP	O-C-CA	-2.70	117.70	124.78
1	B	1902	HYP	O-C-CA	-2.69	117.72	124.78
1	A	1902	HYP	O-C-CA	-2.69	117.73	124.78
1	B	1923	HYP	O-C-CA	-2.69	117.73	124.78
1	A	1931	HYP	O-C-CA	-2.69	117.74	124.78
2	I	5	HYP	O-C-CA	-2.69	117.74	124.78
1	E	1865	HYP	O-C-CA	-2.68	117.74	124.78
1	F	1864	HYP	O-C-CA	-2.68	117.75	124.78
1	B	1932	HYP	O-C-CA	-2.68	117.75	124.78
1	A	1868	HYP	O-C-CA	-2.68	117.75	124.78
2	H	44	HYP	O-C-CA	-2.68	117.76	124.78
1	E	1857	HYP	O-C-CA	-2.68	117.76	124.78
1	C	1932	HYP	O-C-CA	-2.67	117.77	124.78
1	C	1930	HYP	O-C-CA	-2.67	117.77	124.78
1	A	1923	HYP	O-C-CA	-2.67	117.77	124.78
1	E	1916	HYP	O-C-CA	-2.67	117.78	124.78
1	E	1908	HYP	O-C-CA	-2.67	117.78	124.78
1	F	1863	HYP	O-C-CA	-2.67	117.78	124.78
1	E	1864	HYP	O-C-CA	-2.67	117.78	124.78
2	G	3	HYP	O-C-CA	-2.66	117.80	124.78
1	F	1877	HYP	O-C-CA	-2.66	117.80	124.78
1	A	1916	HYP	O-C-CA	-2.66	117.81	124.78
2	G	11	HYP	O-C-CA	-2.65	117.83	124.78
2	G	42	HYP	O-C-CA	-2.65	117.83	124.78
1	A	1880	HYP	O-C-CA	-2.65	117.84	124.78
1	D	1908	HYP	O-C-CA	-2.65	117.84	124.78
1	A	1894	HYP	O-C-CA	-2.65	117.84	124.78
1	A	1893	HYP	O-C-CA	-2.65	117.84	124.78
1	F	1931	HYP	O-C-CA	-2.64	117.86	124.78
1	D	1902	HYP	O-C-CA	-2.64	117.86	124.78
1	C	1923	HYP	CG-CB-CA	-2.64	100.63	103.96
1	B	1865	HYP	O-C-CA	-2.64	117.86	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1903	HYP	CG-CB-CA	-2.64	100.63	103.96
1	D	1931	HYP	O-C-CA	-2.64	117.87	124.78
1	C	1923	HYP	O-C-CA	-2.63	117.89	124.78
1	B	1922	HYP	O-C-CA	-2.63	117.89	124.78
1	B	1908	HYP	CG-CB-CA	-2.63	100.64	103.96
2	G	43	HYP	O-C-CA	-2.63	117.89	124.78
2	H	43	HYP	O-C-CA	-2.63	117.90	124.78
1	D	1921	HYP	O-C-CA	-2.62	117.90	124.78
2	G	8	HYP	O-C-CA	-2.62	117.90	124.78
1	B	1878	HYP	O-C-CA	-2.62	117.91	124.78
1	E	1922	HYP	O-C-CA	-2.62	117.91	124.78
1	F	1858	HYP	O-C-CA	-2.62	117.91	124.78
1	B	1915	HYP	O-C-CA	-2.62	117.91	124.78
1	B	1887	HYP	O-C-CA	-2.62	117.91	124.78
1	A	1857	HYP	O-C-CA	-2.62	117.92	124.78
2	G	45	HYP	O-C-CA	-2.62	117.92	124.78
2	H	51	HYP	O-C-CA	-2.62	117.92	124.78
1	C	1907	HYP	O-C-CA	-2.61	117.93	124.78
1	A	1918	HYP	O-C-CA	-2.61	117.94	124.78
2	I	3	HYP	O-C-CA	-2.61	117.94	124.78
2	I	8	HYP	O-C-CA	-2.61	117.94	124.78
1	B	1913	HYP	O-C-CA	-2.61	117.94	124.78
2	H	49	HYP	O-C-CA	-2.61	117.94	124.78
1	A	1899	HYP	O-C-CA	-2.61	117.95	124.78
1	A	1914	HYP	O-C-CA	-2.61	117.95	124.78
1	B	1863	HYP	O-C-CA	-2.61	117.95	124.78
1	E	1907	HYP	O-C-CA	-2.60	117.95	124.78
1	F	1902	HYP	O-C-CA	-2.60	117.95	124.78
1	B	1899	HYP	O-C-CA	-2.60	117.96	124.78
1	F	1855	HYP	O-C-CA	-2.60	117.96	124.78
2	I	4	HYP	O-C-CA	-2.60	117.96	124.78
1	A	1894	HYP	CG-CB-CA	-2.60	100.68	103.96
2	G	51	HYP	O-C-CA	-2.60	117.96	124.78
1	A	1866	HYP	O-C-CA	-2.60	117.96	124.78
1	E	1918	HYP	O-C-CA	-2.60	117.96	124.78
1	E	1877	HYP	O-C-CA	-2.60	117.96	124.78
1	A	1927	HYP	O-C-CA	-2.60	117.97	124.78
1	C	1931	HYP	O-C-CA	-2.60	117.97	124.78
1	F	1906	HYP	O-C-CA	-2.60	117.97	124.78
1	B	1903	HYP	O-C-CA	-2.60	117.97	124.78
1	E	1863	HYP	O-C-CA	-2.60	117.97	124.78
1	F	1922	HYP	O-C-CA	-2.60	117.97	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	1914	HYP	O-C-CA	-2.60	117.97	124.78
1	F	1866	HYP	O-C-CA	-2.60	117.97	124.78
1	A	1903	HYP	O-C-CA	-2.60	117.98	124.78
1	A	1862	HYP	O-C-CA	-2.59	117.99	124.78
1	A	1864	HYP	O-C-CA	-2.59	117.99	124.78
1	C	1908	HYP	O-C-CA	-2.59	118.00	124.78
1	F	1873	HYP	O-C-CA	-2.59	118.00	124.78
1	D	1918	HYP	CG-CB-CA	-2.59	100.70	103.96
1	D	1915	HYP	O-C-CA	-2.59	118.00	124.78
1	F	1899	HYP	O-C-CA	-2.59	118.00	124.78
1	D	1923	HYP	O-C-CA	-2.58	118.00	124.78
1	F	1862	HYP	O-C-CA	-2.58	118.00	124.78
1	B	1916	HYP	O-C-CA	-2.58	118.01	124.78
1	B	1921	HYP	O-C-CA	-2.58	118.02	124.78
1	D	1922	HYP	O-C-CA	-2.58	118.02	124.78
2	G	49	HYP	O-C-CA	-2.58	118.02	124.78
1	A	1930	HYP	O-C-CA	-2.58	118.02	124.78
1	E	1902	HYP	O-C-CA	-2.58	118.02	124.78
1	C	1899	HYP	O-C-CA	-2.58	118.02	124.78
1	A	1888	HYP	O-C-CA	-2.57	118.03	124.78
1	A	1872	HYP	O-C-CA	-2.57	118.03	124.78
1	E	1862	HYP	O-C-CA	-2.57	118.03	124.78
1	B	1930	HYP	O-C-CA	-2.57	118.04	124.78
1	F	1856	HYP	O-C-CA	-2.57	118.04	124.78
1	F	1872	HYP	O-C-CA	-2.57	118.04	124.78
1	F	1907	HYP	O-C-CA	-2.57	118.04	124.78
1	A	1921	HYP	O-C-CA	-2.57	118.04	124.78
1	F	1867	HYP	O-C-CA	-2.57	118.04	124.78
1	E	1880	HYP	O-C-CA	-2.57	118.05	124.78
2	G	46	HYP	O-C-CA	-2.57	118.05	124.78
2	H	46	HYP	O-C-CA	-2.57	118.05	124.78
2	H	41	HYP	O-C-CA	-2.57	118.06	124.78
2	G	9	HYP	CG-CB-CA	-2.56	100.72	103.96
1	B	1918	HYP	O-C-CA	-2.56	118.06	124.78
1	D	1898	HYP	O-C-CA	-2.56	118.07	124.78
2	H	42	HYP	O-C-CA	-2.56	118.07	124.78
1	A	1890	HYP	O-C-CA	-2.56	118.08	124.78
1	B	1857	HYP	O-C-CA	-2.56	118.08	124.78
2	G	2	HYP	O-C-CA	-2.56	118.08	124.78
1	B	1856	HYP	O-C-CA	-2.55	118.08	124.78
2	G	47	HYP	O-C-CA	-2.55	118.09	124.78
1	D	1907	HYP	O-C-CA	-2.55	118.09	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1930	HYP	O-C-CA	-2.55	118.09	124.78
1	E	1872	HYP	O-C-CA	-2.55	118.09	124.78
1	F	1915	HYP	O-C-CA	-2.55	118.09	124.78
1	E	1912	HYP	O-C-CA	-2.55	118.09	124.78
1	D	1913	HYP	O-C-CA	-2.55	118.10	124.78
1	C	1917	HYP	O-C-CA	-2.55	118.10	124.78
1	B	1928	HYP	O-C-CA	-2.55	118.10	124.78
1	C	1918	HYP	O-C-CA	-2.55	118.11	124.78
1	A	1887	HYP	O-C-CA	-2.55	118.11	124.78
1	C	1902	HYP	O-C-CA	-2.55	118.11	124.78
1	E	1914	HYP	O-C-CA	-2.55	118.11	124.78
1	D	1916	HYP	O-C-CA	-2.55	118.11	124.78
1	C	1914	HYP	O-C-CA	-2.54	118.11	124.78
1	E	1866	HYP	O-C-CA	-2.54	118.11	124.78
1	A	1877	HYP	O-C-CA	-2.54	118.11	124.78
1	B	1880	HYP	O-C-CA	-2.54	118.11	124.78
1	B	1893	HYP	O-C-CA	-2.54	118.11	124.78
1	D	1899	HYP	O-C-CA	-2.54	118.11	124.78
2	I	20	HYP	O-C-CA	-2.54	118.12	124.78
1	E	1887	HYP	O-C-CA	-2.54	118.12	124.78
2	I	6	HYP	O-C-CA	-2.54	118.12	124.78
2	G	52	HYP	O-C-CA	-2.54	118.12	124.78
1	F	1913	HYP	O-C-CA	-2.54	118.13	124.78
1	F	1908	HYP	O-C-CA	-2.54	118.13	124.78
1	A	1915	HYP	O-C-CA	-2.54	118.13	124.78
1	B	1877	HYP	O-C-CA	-2.54	118.13	124.78
1	E	1918	HYP	CG-CB-CA	-2.54	100.76	103.96
1	E	1885	HYP	O-C-CA	-2.53	118.14	124.78
1	F	1897	HYP	O-C-CA	-2.53	118.14	124.78
2	G	14	HYP	O-C-CA	-2.53	118.14	124.78
2	G	7	HYP	O-C-CA	-2.53	118.14	124.78
1	E	1888	HYP	O-C-CA	-2.53	118.14	124.78
1	F	1928	HYP	O-C-CA	-2.53	118.15	124.78
1	A	1883	HYP	O-C-CA	-2.53	118.15	124.78
1	C	1921	HYP	O-C-CA	-2.53	118.15	124.78
1	F	1885	HYP	O-C-CA	-2.53	118.15	124.78
1	A	1898	HYP	O-C-CA	-2.53	118.15	124.78
1	D	1927	HYP	O-C-CA	-2.53	118.16	124.78
1	E	1856	HYP	O-C-CA	-2.53	118.16	124.78
1	D	1903	HYP	O-C-CA	-2.53	118.16	124.78
1	A	1868	HYP	CG-CB-CA	-2.53	100.77	103.96
1	C	1915	HYP	O-C-CA	-2.52	118.16	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	56	HYP	O-C-CA	-2.52	118.17	124.78
1	A	1875	HYP	O-C-CA	-2.52	118.17	124.78
1	B	1927	HYP	O-C-CA	-2.52	118.17	124.78
1	B	1888	HYP	O-C-CA	-2.52	118.18	124.78
1	C	1929	HYP	O-C-CA	-2.52	118.18	124.78
1	F	1923	HYP	O-C-CA	-2.52	118.18	124.78
2	H	56	HYP	O-C-CA	-2.52	118.18	124.78
1	C	1903	HYP	O-C-CA	-2.52	118.19	124.78
1	E	1923	HYP	O-C-CA	-2.52	118.19	124.78
1	E	1921	HYP	O-C-CA	-2.52	118.19	124.78
1	A	1855	HYP	O-C-CA	-2.51	118.19	124.78
1	B	1898	HYP	O-C-CA	-2.51	118.19	124.78
1	E	1882	HYP	O-C-CA	-2.51	118.19	124.78
1	E	1928	HYP	O-C-CA	-2.51	118.20	124.78
1	B	1878	HYP	CG-CB-CA	-2.51	100.79	103.96
1	F	1894	HYP	O-C-CA	-2.51	118.20	124.78
1	B	1882	HYP	O-C-CA	-2.51	118.20	124.78
2	G	33	HYP	O-C-CA	-2.51	118.20	124.78
2	G	44	HYP	O-C-CA	-2.51	118.20	124.78
1	C	1927	HYP	O-C-CA	-2.51	118.20	124.78
1	C	1897	HYP	O-C-CA	-2.51	118.20	124.78
1	E	1893	HYP	O-C-CA	-2.51	118.21	124.78
1	B	1867	HYP	O-C-CA	-2.51	118.21	124.78
1	C	1922	HYP	O-C-CA	-2.51	118.21	124.78
1	E	1873	HYP	O-C-CA	-2.51	118.21	124.78
1	C	1908	HYP	CG-CB-CA	-2.50	100.80	103.96
1	E	1905	HYP	O-C-CA	-2.50	118.22	124.78
1	A	1892	HYP	O-C-CA	-2.50	118.22	124.78
1	C	1913	HYP	O-C-CA	-2.50	118.22	124.78
1	A	1885	HYP	O-C-CA	-2.50	118.22	124.78
1	B	1894	HYP	O-C-CA	-2.50	118.22	124.78
2	G	6	HYP	O-C-CA	-2.50	118.22	124.78
2	I	14	HYP	O-C-CA	-2.50	118.22	124.78
1	A	1929	HYP	O-C-CA	-2.50	118.22	124.78
1	A	1911	HYP	O-C-CA	-2.50	118.22	124.78
1	E	1911	HYP	O-C-CA	-2.50	118.23	124.78
1	A	1897	HYP	O-C-CA	-2.50	118.23	124.78
2	G	20	HYP	O-C-CA	-2.50	118.23	124.78
1	A	1863	HYP	O-C-CA	-2.50	118.23	124.78
1	E	1929	HYP	O-C-CA	-2.50	118.23	124.78
1	F	1888	HYP	O-C-CA	-2.50	118.23	124.78
1	F	1892	HYP	O-C-CA	-2.50	118.24	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1929	HYP	O-C-CA	-2.50	118.24	124.78
1	E	1931	HYP	O-C-CA	-2.50	118.24	124.78
1	F	1929	HYP	O-C-CA	-2.50	118.24	124.78
1	A	1906	HYP	O-C-CA	-2.49	118.24	124.78
2	I	17	HYP	O-C-CA	-2.49	118.25	124.78
1	F	1921	HYP	O-C-CA	-2.49	118.25	124.78
1	B	1862	HYP	O-C-CA	-2.49	118.26	124.78
1	F	1917	HYP	O-C-CA	-2.49	118.26	124.78
2	G	48	HYP	O-C-CA	-2.49	118.26	124.78
1	D	1905	HYP	O-C-CA	-2.49	118.26	124.78
2	H	48	HYP	O-C-CA	-2.49	118.26	124.78
1	B	1923	HYP	CG-CB-CA	-2.48	100.83	103.96
1	A	1882	HYP	O-C-CA	-2.48	118.27	124.78
1	A	1913	HYP	O-C-CA	-2.48	118.27	124.78
2	I	1	HYP	O-C-CA	-2.48	118.27	124.78
1	B	1855	HYP	O-C-CA	-2.48	118.27	124.78
1	B	1883	HYP	O-C-CA	-2.48	118.28	124.78
1	E	1855	HYP	O-C-CA	-2.48	118.28	124.78
1	F	1930	HYP	O-C-CA	-2.48	118.28	124.78
1	E	1927	HYP	O-C-CA	-2.48	118.28	124.78
1	A	1912	HYP	O-C-CA	-2.47	118.29	124.78
1	C	1928	HYP	O-C-CA	-2.47	118.29	124.78
2	H	52	HYP	O-C-CA	-2.47	118.29	124.78
1	A	1856	HYP	O-C-CA	-2.47	118.30	124.78
1	E	1894	HYP	O-C-CA	-2.47	118.30	124.78
2	G	32	HYP	O-C-CA	-2.47	118.30	124.78
1	B	1868	HYP	O-C-CA	-2.47	118.31	124.78
1	F	1916	HYP	O-C-CA	-2.47	118.31	124.78
2	I	11	HYP	O-C-CA	-2.47	118.31	124.78
1	B	1903	HYP	CG-CB-CA	-2.47	100.85	103.96
1	C	1912	HYP	O-C-CA	-2.47	118.32	124.78
2	G	29	HYP	O-C-CA	-2.47	118.32	124.78
1	B	1905	HYP	O-C-CA	-2.46	118.32	124.78
1	B	1912	HYP	O-C-CA	-2.46	118.32	124.78
1	F	1918	HYP	O-C-CA	-2.46	118.32	124.78
2	G	41	HYP	O-C-CA	-2.46	118.32	124.78
1	B	1870	HYP	O-C-CA	-2.46	118.32	124.78
2	I	33	HYP	O-C-CA	-2.46	118.33	124.78
1	F	1903	HYP	O-C-CA	-2.46	118.33	124.78
1	E	1899	HYP	O-C-CA	-2.46	118.33	124.78
1	D	1911	HYP	O-C-CA	-2.46	118.34	124.78
1	D	1932	HYP	O-C-CA	-2.46	118.34	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1875	HYP	O-C-CA	-2.46	118.34	124.78
1	B	1866	HYP	O-C-CA	-2.45	118.34	124.78
2	G	26	HYP	O-C-CA	-2.45	118.35	124.78
1	C	1932	HYP	CG-CB-CA	-2.45	100.86	103.96
1	E	1903	HYP	O-C-CA	-2.45	118.35	124.78
1	B	1890	HYP	O-C-CA	-2.45	118.36	124.78
2	H	50	HYP	O-C-CA	-2.45	118.36	124.78
1	A	1860	HYP	CG-CB-CA	-2.45	100.87	103.96
1	E	1898	HYP	O-C-CA	-2.45	118.37	124.78
1	E	1878	HYP	O-C-CA	-2.45	118.37	124.78
1	D	1912	HYP	O-C-CA	-2.45	118.37	124.78
1	F	1898	HYP	O-C-CA	-2.44	118.37	124.78
2	I	7	HYP	O-C-CA	-2.44	118.37	124.78
1	C	1906	HYP	O-C-CA	-2.44	118.38	124.78
2	G	17	HYP	O-C-CA	-2.44	118.38	124.78
2	I	29	HYP	O-C-CA	-2.44	118.38	124.78
1	B	1911	HYP	O-C-CA	-2.44	118.38	124.78
1	A	1905	HYP	O-C-CA	-2.44	118.39	124.78
1	A	1932	HYP	O-C-CA	-2.44	118.39	124.78
2	G	9	HYP	O-C-CA	-2.44	118.39	124.78
1	A	1867	HYP	O-C-CA	-2.44	118.39	124.78
1	C	1910	HYP	O-C-CA	-2.44	118.39	124.78
1	C	1905	HYP	O-C-CA	-2.44	118.39	124.78
2	H	47	HYP	O-C-CA	-2.44	118.39	124.78
1	B	1885	HYP	O-C-CA	-2.43	118.40	124.78
1	C	1911	HYP	O-C-CA	-2.43	118.40	124.78
1	A	1873	HYP	O-C-CA	-2.43	118.40	124.78
2	I	2	HYP	O-C-CA	-2.43	118.40	124.78
2	G	5	HYP	O-C-CA	-2.43	118.41	124.78
1	A	1858	HYP	O-C-CA	-2.43	118.42	124.78
1	B	1910	HYP	O-C-CA	-2.43	118.42	124.78
1	F	1932	HYP	O-C-CA	-2.43	118.42	124.78
1	F	1882	HYP	O-C-CA	-2.42	118.42	124.78
1	D	1917	HYP	O-C-CA	-2.42	118.42	124.78
2	G	50	HYP	O-C-CA	-2.42	118.43	124.78
1	D	1899	HYP	CG-CB-CA	-2.42	100.91	103.96
1	B	1901	HYP	O-C-CA	-2.42	118.44	124.78
1	B	1920	HYP	O-C-CA	-2.42	118.44	124.78
2	I	9	HYP	O-C-CA	-2.42	118.45	124.78
1	C	1898	HYP	O-C-CA	-2.41	118.45	124.78
1	F	1883	HYP	O-C-CA	-2.41	118.45	124.78
1	D	1929	HYP	O-C-CA	-2.41	118.45	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	1905	HYP	O-C-CA	-2.41	118.46	124.78
1	E	1892	HYP	O-C-CA	-2.41	118.46	124.78
1	F	1911	HYP	O-C-CA	-2.41	118.46	124.78
1	A	1910	HYP	O-C-CA	-2.41	118.46	124.78
1	F	1875	HYP	O-C-CA	-2.41	118.47	124.78
1	F	1912	HYP	O-C-CA	-2.41	118.47	124.78
1	C	1920	HYP	O-C-CA	-2.40	118.48	124.78
2	H	55	HYP	O-C-CA	-2.40	118.48	124.78
1	E	1910	HYP	O-C-CA	-2.40	118.49	124.78
2	G	55	HYP	O-C-CA	-2.40	118.49	124.78
1	C	1916	HYP	O-C-CA	-2.40	118.49	124.78
1	E	1901	HYP	O-C-CA	-2.40	118.50	124.78
2	G	34	HYP	O-C-CA	-2.40	118.50	124.78
1	B	1875	HYP	O-C-CA	-2.40	118.50	124.78
2	G	40	HYP	O-C-CA	-2.40	118.50	124.78
1	D	1897	HYP	O-C-CA	-2.39	118.51	124.78
1	E	1917	HYP	O-C-CA	-2.39	118.51	124.78
2	I	32	HYP	O-C-CA	-2.39	118.52	124.78
1	A	1878	HYP	CG-CB-CA	-2.39	100.95	103.96
1	B	1892	HYP	O-C-CA	-2.39	118.52	124.78
1	F	1878	HYP	O-C-CA	-2.39	118.52	124.78
1	B	1908	HYP	CB-CG-CD	-2.38	100.34	103.27
1	E	1907	HYP	CG-CB-CA	-2.38	100.96	103.96
2	H	45	HYP	O-C-CA	-2.38	118.54	124.78
1	B	1906	HYP	O-C-CA	-2.38	118.55	124.78
1	A	1901	HYP	O-C-CA	-2.37	118.56	124.78
1	F	1887	HYP	O-C-CA	-2.37	118.57	124.78
1	F	1890	HYP	O-C-CA	-2.37	118.57	124.78
1	E	1913	HYP	O-C-CA	-2.37	118.57	124.78
1	A	1928	HYP	O-C-CA	-2.37	118.57	124.78
1	D	1928	HYP	O-C-CA	-2.37	118.58	124.78
1	C	1903	HYP	CG-CB-CA	-2.36	100.98	103.96
2	H	40	HYP	O-C-CA	-2.36	118.58	124.78
1	B	1864	HYP	O-C-CA	-2.36	118.58	124.78
1	B	1897	HYP	O-C-CA	-2.36	118.59	124.78
1	E	1908	HYP	CB-CG-CD	-2.36	100.37	103.27
1	E	1920	HYP	O-C-CA	-2.36	118.60	124.78
1	A	1920	HYP	O-C-CA	-2.35	118.61	124.78
1	F	1910	HYP	O-C-CA	-2.35	118.61	124.78
1	F	1927	HYP	O-C-CA	-2.35	118.61	124.78
2	G	1	HYP	O-C-CA	-2.34	118.64	124.78
1	F	1870	HYP	O-C-CA	-2.34	118.64	124.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1932	HYP	O-C-CA	-2.34	118.64	124.78
1	A	1923	HYP	CG-CB-CA	-2.34	101.00	103.96
1	B	1873	HYP	O-C-CA	-2.33	118.66	124.78
1	B	1860	HYP	CG-CB-CA	-2.33	101.02	103.96
1	E	1890	HYP	O-C-CA	-2.33	118.67	124.78
1	D	1920	HYP	O-C-CA	-2.33	118.68	124.78
1	E	1915	HYP	O-C-CA	-2.32	118.69	124.78
2	H	52	HYP	CG-CB-CA	-2.32	101.03	103.96
2	I	26	HYP	O-C-CA	-2.32	118.70	124.78
2	H	37	HYP	O-C-CA	-2.32	118.70	124.78
2	G	34	HYP	CG-CB-CA	-2.32	101.03	103.96
1	E	1930	HYP	O-C-CA	-2.32	118.71	124.78
1	E	1897	HYP	O-C-CA	-2.32	118.71	124.78
1	E	1906	HYP	O-C-CA	-2.31	118.71	124.78
1	D	1914	HYP	O-C-CA	-2.31	118.73	124.78
1	C	1901	HYP	O-C-CA	-2.31	118.74	124.78
1	E	1883	HYP	O-C-CA	-2.30	118.75	124.78
1	F	1860	HYP	O-C-CA	-2.29	118.77	124.78
1	D	1923	HYP	CG-CB-CA	-2.28	101.08	103.96
1	D	1910	HYP	O-C-CA	-2.28	118.80	124.78
1	A	1860	HYP	O-C-CA	-2.28	118.81	124.78
1	F	1920	HYP	O-C-CA	-2.27	118.82	124.78
1	A	1870	HYP	O-C-CA	-2.26	118.85	124.78
1	F	1923	HYP	CB-CG-CD	-2.26	100.50	103.27
1	F	1901	HYP	O-C-CA	-2.26	118.86	124.78
1	C	1918	HYP	CG-CB-CA	-2.26	101.11	103.96
1	E	1860	HYP	O-C-CA	-2.25	118.89	124.78
2	G	23	HYP	O-C-CA	-2.24	118.90	124.78
1	A	1878	HYP	O-C-CA	-2.24	118.91	124.78
2	I	23	HYP	O-C-CA	-2.24	118.91	124.78
1	E	1870	HYP	O-C-CA	-2.24	118.91	124.78
1	B	1860	HYP	O-C-CA	-2.23	118.93	124.78
1	E	1877	HYP	CG-CB-CA	-2.23	101.15	103.96
1	A	1932	HYP	CG-CB-CA	-2.23	101.15	103.96
1	F	1908	HYP	CB-CG-CD	-2.23	100.54	103.27
1	F	1932	HYP	CG-CB-CA	-2.22	101.16	103.96
1	D	1901	HYP	O-C-CA	-2.22	118.97	124.78
1	D	1902	HYP	CG-CB-CA	-2.20	101.19	103.96
1	B	1923	HYP	CB-CG-CD	-2.19	100.58	103.27
1	D	1932	HYP	CG-CB-CA	-2.18	101.21	103.96
1	D	1932	HYP	CB-CG-CD	-2.18	100.59	103.27
1	C	1908	HYP	CB-CG-CD	-2.16	100.61	103.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1903	HYP	CB-CG-CD	-2.16	100.62	103.27
1	C	1907	HYP	CG-CB-CA	-2.16	101.24	103.96
1	E	1870	HYP	CG-CB-CA	-2.16	101.24	103.96
1	F	1907	HYP	CG-CB-CA	-2.13	101.27	103.96
1	D	1903	HYP	CB-CG-CD	-2.13	100.66	103.27
1	F	1903	HYP	CB-CG-CD	-2.10	100.69	103.27
1	A	1903	HYP	CB-CG-CD	-2.09	100.70	103.27
2	G	37	HYP	O-C-CA	-2.08	119.33	124.78
1	A	1870	HYP	CG-CB-CA	-2.08	101.34	103.96
1	A	1908	HYP	CB-CG-CD	-2.08	100.72	103.27
1	A	1923	HYP	CB-CG-CD	-2.07	100.72	103.27
1	D	1908	HYP	CB-CG-CD	-2.07	100.72	103.27
2	I	26	HYP	CB-CG-CD	-2.05	100.75	103.27
1	A	1868	HYP	CB-CG-CD	-2.04	100.76	103.27
1	E	1860	HYP	CB-CG-CD	-2.04	100.77	103.27
1	B	1888	HYP	CB-CG-CD	-2.03	100.78	103.27
1	C	1902	HYP	CB-CG-CD	-2.03	100.78	103.27
1	D	1923	HYP	CB-CG-CD	-2.02	100.79	103.27
1	F	1868	HYP	CB-CG-CD	-2.01	100.80	103.27
1	E	1868	HYP	CB-CG-CD	-2.01	100.80	103.27
1	A	1932	HYP	CB-CG-CD	-2.01	100.80	103.27

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	G	23	HYP	CA
2	I	23	HYP	CA
2	G	26	HYP	CA
2	I	26	HYP	CA

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

1348 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	FUB	0	1	3	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
3	FUB	0	2	3	9,9,10	0.55	0	10,12,14	0.90	0
3	FUB	0	3	3	9,9,10	0.58	0	10,12,14	0.96	0
3	FUB	0A	1	3	9,9,10	0.57	0	10,12,14	0.98	1 (10%)
3	FUB	0A	2	3	9,9,10	0.54	0	10,12,14	0.78	0
3	FUB	0A	3	3	9,9,10	0.56	0	10,12,14	0.90	0
6	FUB	0B	1	6	9,9,10	0.57	0	10,12,14	1.01	0
6	FUB	0B	2	6	9,9,10	0.58	0	10,12,14	1.23	1 (10%)
6	GZL	0B	3	6	11,11,12	6.99	6 (54%)	14,15,17	3.96	4 (28%)
6	FUB	0C	1	6	9,9,10	0.59	0	10,12,14	0.82	0
6	FUB	0C	2	6	9,9,10	0.57	0	10,12,14	1.17	1 (10%)
6	GZL	0C	3	6	11,11,12	6.70	7 (63%)	14,15,17	1.49	2 (14%)
13	FUB	0D	1	13	9,9,10	0.59	0	10,12,14	0.88	0
13	FUB	0D	2	13	9,9,10	0.57	0	10,12,14	1.04	0
13	GZL	0D	3	13	11,11,12	6.70	7 (63%)	14,15,17	1.50	3 (21%)
13	AHR	0D	4	13	9,9,10	0.56	0	10,12,14	0.89	0
18	FUB	0E	1	18	9,9,10	0.59	0	10,12,14	0.99	0
18	FUB	0E	2	18	9,9,10	0.56	0	10,12,14	0.87	0
18	GZL	0E	3	18	11,11,12	6.73	7 (63%)	14,15,17	1.45	2 (14%)
18	AHR	0E	4	18	9,9,10	0.58	0	10,12,14	0.96	0
18	AHR	0E	5	18	9,9,10	0.58	0	10,12,14	1.08	1 (10%)
3	FUB	1	1	3	9,9,10	0.57	0	10,12,14	0.82	0
3	FUB	1	2	3	9,9,10	0.57	0	10,12,14	0.94	0
3	FUB	1	3	3	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
10	FUB	1A	1	10	9,9,10	0.52	0	10,12,14	1.11	1 (10%)
10	FUB	1A	2	10	9,9,10	0.54	0	10,12,14	0.76	0
10	FUB	1A	3	10	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
10	AHR	1A	4	10	9,9,10	0.58	0	10,12,14	0.85	1 (10%)
10	AHR	1A	5	10	9,9,10	0.57	0	10,12,14	0.96	1 (10%)
13	FUB	1B	1	13	9,9,10	0.55	0	10,12,14	0.86	0
13	FUB	1B	2	13	9,9,10	0.57	0	10,12,14	0.88	0
13	GZL	1B	3	13	11,11,12	6.77	7 (63%)	14,15,17	1.37	1 (7%)
13	AHR	1B	4	13	9,9,10	0.57	0	10,12,14	0.98	0
6	FUB	1C	1	6	9,9,10	0.55	0	10,12,14	0.70	0
6	FUB	1C	2	6	9,9,10	0.57	0	10,12,14	0.89	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	GZL	1C	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.58	2 (14%)
15	FUB	1D	1	15	9,9,10	0.58	0	10,12,14	1.00	0
15	FUB	1D	2	15	9,9,10	0.59	0	10,12,14	0.97	0
15	GZL	1D	3	15	11,11,12	6.74	7 (63%)	14,15,17	1.30	1 (7%)
15	AHR	1D	4	15	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
15	AHR	1D	5	15	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
19	FUB	1E	1	19	9,9,10	0.56	0	10,12,14	1.12	1 (10%)
19	FUB	1E	2	19	9,9,10	0.58	0	10,12,14	1.01	1 (10%)
19	GZL	1E	3	19	11,11,12	6.72	7 (63%)	14,15,17	1.64	2 (14%)
19	AHR	1E	4	19	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
3	FUB	2	1	3	9,9,10	0.56	0	10,12,14	0.98	0
3	FUB	2	2	3	9,9,10	0.54	0	10,12,14	0.74	0
3	FUB	2	3	3	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
13	FUB	2A	1	13	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
13	FUB	2A	2	13	9,9,10	0.48	0	10,12,14	1.37	2 (20%)
13	GZL	2A	3	13	11,11,12	6.85	7 (63%)	14,15,17	0.98	0
13	AHR	2A	4	13	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
13	FUB	2B	1	13	9,9,10	0.57	0	10,12,14	1.04	0
13	FUB	2B	2	13	9,9,10	0.57	0	10,12,14	0.89	0
13	GZL	2B	3	13	11,11,12	6.71	7 (63%)	14,15,17	1.52	2 (14%)
13	AHR	2B	4	13	9,9,10	0.58	0	10,12,14	1.01	1 (10%)
6	FUB	2C	1	6	9,9,10	0.59	0	10,12,14	0.93	0
6	FUB	2C	2	6	9,9,10	0.58	0	10,12,14	1.10	1 (10%)
6	GZL	2C	3	6	11,11,12	6.71	7 (63%)	14,15,17	1.57	2 (14%)
15	FUB	2D	1	15	9,9,10	0.58	0	10,12,14	1.03	1 (10%)
15	FUB	2D	2	15	9,9,10	0.59	0	10,12,14	0.91	0
15	GZL	2D	3	15	11,11,12	6.74	7 (63%)	14,15,17	1.49	2 (14%)
15	AHR	2D	4	15	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
15	AHR	2D	5	15	9,9,10	0.59	0	10,12,14	0.98	0
10	FUB	3	1	10	9,9,10	0.55	0	10,12,14	1.10	1 (10%)
10	FUB	3	2	10	9,9,10	0.55	0	10,12,14	0.66	0
10	FUB	3	3	10	9,9,10	0.60	0	10,12,14	1.06	1 (10%)
10	AHR	3	4	10	9,9,10	0.57	0	10,12,14	0.95	0
10	AHR	3	5	10	9,9,10	0.58	0	10,12,14	0.88	1 (10%)
6	FUB	3A	1	6	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
6	FUB	3A	2	6	9,9,10	0.54	0	10,12,14	1.17	1 (10%)
6	GZL	3A	3	6	11,11,12	6.88	6 (54%)	14,15,17	4.71	4 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	FUB	3B	1	6	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
6	FUB	3B	2	6	9,9,10	0.55	0	10,12,14	1.28	1 (10%)
6	GZL	3B	3	6	11,11,12	6.70	7 (63%)	14,15,17	1.60	2 (14%)
13	FUB	3C	1	13	9,9,10	0.58	0	10,12,14	0.97	0
13	FUB	3C	2	13	9,9,10	0.56	0	10,12,14	1.18	1 (10%)
13	GZL	3C	3	13	11,11,12	6.68	7 (63%)	14,15,17	1.51	2 (14%)
13	AHR	3C	4	13	9,9,10	0.59	0	10,12,14	0.85	0
6	FUB	3D	1	6	9,9,10	0.57	0	10,12,14	1.04	1 (10%)
6	FUB	3D	2	6	9,9,10	0.57	0	10,12,14	1.06	1 (10%)
6	GZL	3D	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.43	2 (14%)
13	FUB	4	1	13	9,9,10	0.53	0	10,12,14	0.86	0
13	FUB	4	2	13	9,9,10	0.51	0	10,12,14	1.37	1 (10%)
13	GZL	4	3	13	11,11,12	6.84	7 (63%)	14,15,17	3.32	7 (50%)
13	AHR	4	4	13	9,9,10	0.58	0	10,12,14	1.01	1 (10%)
13	FUB	4A	1	13	9,9,10	0.53	0	10,12,14	0.89	0
13	FUB	4A	2	13	9,9,10	0.56	0	10,12,14	0.82	0
13	GZL	4A	3	13	11,11,12	6.78	7 (63%)	14,15,17	1.46	1 (7%)
13	AHR	4A	4	13	9,9,10	0.55	0	10,12,14	1.12	1 (10%)
6	FUB	4B	1	6	9,9,10	0.57	0	10,12,14	0.87	1 (10%)
6	FUB	4B	2	6	9,9,10	0.58	0	10,12,14	0.84	0
6	GZL	4B	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.72	2 (14%)
15	FUB	4C	1	15	9,9,10	0.58	0	10,12,14	0.91	0
15	FUB	4C	2	15	9,9,10	0.58	0	10,12,14	0.98	0
15	GZL	4C	3	15	11,11,12	6.73	7 (63%)	14,15,17	1.43	1 (7%)
15	AHR	4C	4	15	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
15	AHR	4C	5	15	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
16	NAG	4D	1	16,1	14,14,15	0.34	0	17,19,21	0.55	0
16	NAG	4D	2	16	14,14,15	0.45	0	17,19,21	1.36	2 (11%)
6	FUB	5	1	6	9,9,10	0.55	0	10,12,14	0.97	1 (10%)
6	FUB	5	2	6	9,9,10	0.52	0	10,12,14	1.27	1 (10%)
6	GZL	5	3	6	11,11,12	6.73	6 (54%)	14,15,17	1.55	1 (7%)
13	FUB	5A	1	13	9,9,10	0.56	0	10,12,14	0.90	0
13	FUB	5A	2	13	9,9,10	0.55	0	10,12,14	0.78	0
13	GZL	5A	3	13	11,11,12	6.71	7 (63%)	14,15,17	1.31	1 (7%)
13	AHR	5A	4	13	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
6	FUB	5B	1	6	9,9,10	0.55	0	10,12,14	0.80	0
6	FUB	5B	2	6	9,9,10	0.59	0	10,12,14	1.08	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	GZL	5B	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.38	1 (7%)
15	FUB	5C	1	15	9,9,10	0.56	0	10,12,14	1.09	1 (10%)
15	FUB	5C	2	15	9,9,10	0.58	0	10,12,14	0.97	0
15	GZL	5C	3	15	11,11,12	6.71	7 (63%)	14,15,17	1.64	2 (14%)
15	AHR	5C	4	15	9,9,10	0.58	0	10,12,14	1.00	1 (10%)
15	AHR	5C	5	15	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
17	NAG	5D	1	17,1	14,14,15	0.33	0	17,19,21	0.98	1 (5%)
17	NAG	5D	2	17	14,14,15	0.30	0	17,19,21	0.76	0
17	BMA	5D	3	17	11,11,12	0.26	0	15,15,17	1.30	3 (20%)
17	MAN	5D	4	17	11,11,12	0.41	0	15,15,17	2.40	3 (20%)
17	MAN	5D	5	17	11,11,12	0.27	0	15,15,17	0.61	0
17	MAN	5D	6	17	11,11,12	0.30	0	15,15,17	0.85	0
13	FUB	6	1	13	9,9,10	0.54	0	10,12,14	0.77	0
13	FUB	6	2	13	9,9,10	0.58	0	10,12,14	0.82	0
13	GZL	6	3	13	11,11,12	6.78	6 (54%)	14,15,17	1.39	1 (7%)
13	AHR	6	4	13	9,9,10	0.58	0	10,12,14	1.09	1 (10%)
6	FUB	6A	1	6	9,9,10	0.56	0	10,12,14	0.88	0
6	FUB	6A	2	6	9,9,10	0.53	0	10,12,14	1.45	1 (10%)
6	GZL	6A	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.48	1 (7%)
13	FUB	6B	1	13	9,9,10	0.56	0	10,12,14	0.89	0
13	FUB	6B	2	13	9,9,10	0.55	0	10,12,14	1.19	2 (20%)
13	GZL	6B	3	13	11,11,12	6.71	7 (63%)	14,15,17	1.84	4 (28%)
13	AHR	6B	4	13	9,9,10	0.55	0	10,12,14	0.97	0
6	FUB	6C	1	6	9,9,10	0.58	0	10,12,14	0.97	1 (10%)
6	FUB	6C	2	6	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
6	GZL	6C	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.48	1 (7%)
6	FUB	6D	1	6	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
6	FUB	6D	2	6	9,9,10	0.57	0	10,12,14	1.15	1 (10%)
6	GZL	6D	3	6	11,11,12	6.68	7 (63%)	14,15,17	1.90	3 (21%)
13	FUB	7	1	13	9,9,10	0.58	0	10,12,14	0.98	0
13	FUB	7	2	13	9,9,10	0.57	0	10,12,14	0.77	0
13	GZL	7	3	13	11,11,12	6.73	7 (63%)	14,15,17	1.44	2 (14%)
13	AHR	7	4	13	9,9,10	0.56	0	10,12,14	1.15	1 (10%)
6	FUB	7A	1	6	9,9,10	0.56	0	10,12,14	0.98	1 (10%)
6	FUB	7A	2	6	9,9,10	0.58	0	10,12,14	0.96	0
6	GZL	7A	3	6	11,11,12	6.71	7 (63%)	14,15,17	1.43	1 (7%)
15	FUB	7B	1	15	9,9,10	0.51	0	10,12,14	0.96	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	FUB	7B	2	15	9,9,10	0.55	0	10,12,14	0.86	0
15	GZL	7B	3	15	11,11,12	6.75	7 (63%)	14,15,17	1.40	1 (7%)
15	AHR	7B	4	15	9,9,10	0.60	0	10,12,14	1.22	2 (20%)
15	AHR	7B	5	15	9,9,10	0.59	0	10,12,14	0.89	0
17	NAG	7C	1	17,1	14,14,15	0.32	0	17,19,21	0.84	1 (5%)
17	NAG	7C	2	17	14,14,15	0.35	0	17,19,21	0.99	0
17	BMA	7C	3	17	11,11,12	0.20	0	15,15,17	1.21	1 (6%)
17	MAN	7C	4	17	11,11,12	0.31	0	15,15,17	1.15	2 (13%)
17	MAN	7C	5	17	11,11,12	0.24	0	15,15,17	0.74	0
17	MAN	7C	6	17	11,11,12	0.29	0	15,15,17	0.98	0
6	FUB	7D	1	6	9,9,10	0.58	0	10,12,14	0.97	0
6	FUB	7D	2	6	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
6	GZL	7D	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.57	2 (14%)
6	FUB	8	1	6	9,9,10	0.56	0	10,12,14	0.99	1 (10%)
6	FUB	8	2	6	9,9,10	0.55	0	10,12,14	0.81	0
6	GZL	8	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.42	1 (7%)
6	FUB	8A	1	6	9,9,10	0.54	0	10,12,14	1.04	1 (10%)
6	FUB	8A	2	6	9,9,10	0.60	0	10,12,14	1.08	1 (10%)
6	GZL	8A	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.52	1 (7%)
15	FUB	8B	1	15	9,9,10	0.58	0	10,12,14	0.95	0
15	FUB	8B	2	15	9,9,10	0.56	0	10,12,14	0.92	0
15	GZL	8B	3	15	11,11,12	6.74	7 (63%)	14,15,17	1.25	1 (7%)
15	AHR	8B	4	15	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
15	AHR	8B	5	15	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
3	FUB	8C	1	3	9,9,10	0.58	0	10,12,14	0.82	0
3	FUB	8C	2	3	9,9,10	0.55	0	10,12,14	0.81	0
3	FUB	8C	3	3	9,9,10	0.58	0	10,12,14	0.91	0
6	FUB	8D	1	6	9,9,10	0.56	0	10,12,14	0.91	1 (10%)
6	FUB	8D	2	6	9,9,10	0.57	0	10,12,14	0.92	1 (10%)
6	GZL	8D	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.58	2 (14%)
6	FUB	9	1	6	9,9,10	0.54	0	10,12,14	0.88	1 (10%)
6	FUB	9	2	6	9,9,10	0.56	0	10,12,14	0.79	0
6	GZL	9	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.33	1 (7%)
13	FUB	9A	1	13	9,9,10	0.56	0	10,12,14	0.89	0
13	FUB	9A	2	13	9,9,10	0.54	0	10,12,14	1.20	2 (20%)
13	GZL	9A	3	13	11,11,12	6.71	7 (63%)	14,15,17	1.93	4 (28%)
13	AHR	9A	4	13	9,9,10	0.56	0	10,12,14	1.01	0
6	FUB	9B	1	6	9,9,10	0.57	0	10,12,14	0.87	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	FUB	9B	2	6	9,9,10	0.56	0	10,12,14	1.04	1 (10%)
6	GZL	9B	3	6	11,11,12	6.69	7 (63%)	14,15,17	1.61	2 (14%)
3	FUB	9C	1	3	9,9,10	0.58	0	10,12,14	1.03	0
3	FUB	9C	2	3	9,9,10	0.58	0	10,12,14	1.06	1 (10%)
3	FUB	9C	3	3	9,9,10	0.57	0	10,12,14	0.89	1 (10%)
18	FUB	9D	1	18	9,9,10	0.59	0	10,12,14	2.72	5 (50%)
18	FUB	9D	2	18	9,9,10	0.56	0	10,12,14	0.91	0
18	GZL	9D	3	18	11,11,12	6.74	7 (63%)	14,15,17	1.42	2 (14%)
18	AHR	9D	4	18	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
18	AHR	9D	5	18	9,9,10	0.59	0	10,12,14	1.26	1 (10%)
6	FUB	AA	1	6	9,9,10	0.53	0	10,12,14	0.77	0
6	FUB	AA	2	6	9,9,10	0.59	0	10,12,14	1.12	1 (10%)
6	GZL	AA	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.27	1 (7%)
15	FUB	AB	1	15	9,9,10	0.54	0	10,12,14	1.00	1 (10%)
15	FUB	AB	2	15	9,9,10	0.58	0	10,12,14	0.90	0
15	GZL	AB	3	15	11,11,12	6.73	7 (63%)	14,15,17	1.25	1 (7%)
15	AHR	AB	4	15	9,9,10	0.63	0	10,12,14	1.22	1 (10%)
15	AHR	AB	5	15	9,9,10	0.58	0	10,12,14	1.14	1 (10%)
16	NAG	AC	1	16,1	14,14,15	0.53	0	17,19,21	1.02	1 (5%)
16	NAG	AC	2	16	14,14,15	0.40	0	17,19,21	1.32	2 (11%)
4	FUB	AD	1	4	9,9,10	0.56	0	10,12,14	0.95	1 (10%)
4	FUB	AD	2	4	9,9,10	0.55	0	10,12,14	0.81	0
4	FUB	AD	3	4	9,9,10	0.55	0	10,12,14	0.77	0
4	AHR	AD	4	4	9,9,10	0.55	0	10,12,14	1.12	1 (10%)
19	FUB	AE	1	19	9,9,10	0.56	0	10,12,14	1.26	1 (10%)
19	FUB	AE	2	19	9,9,10	0.57	0	10,12,14	0.87	0
19	GZL	AE	3	19	11,11,12	6.75	7 (63%)	14,15,17	1.43	1 (7%)
19	AHR	AE	4	19	9,9,10	0.56	0	10,12,14	0.83	0
13	FUB	BA	1	13	9,9,10	0.56	0	10,12,14	0.75	0
13	FUB	BA	2	13	9,9,10	0.54	0	10,12,14	1.41	3 (30%)
13	GZL	BA	3	13	11,11,12	6.67	7 (63%)	14,15,17	1.91	4 (28%)
13	AHR	BA	4	13	9,9,10	0.55	0	10,12,14	0.85	0
15	FUB	BB	1	15	9,9,10	0.55	0	10,12,14	1.00	1 (10%)
15	FUB	BB	2	15	9,9,10	0.56	0	10,12,14	0.69	0
15	GZL	BB	3	15	11,11,12	6.75	7 (63%)	14,15,17	1.15	1 (7%)
15	AHR	BB	4	15	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
15	AHR	BB	5	15	9,9,10	0.59	0	10,12,14	0.91	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	BC	1	3	9,9,10	0.56	0	10,12,14	1.00	1 (10%)
3	FUB	BC	2	3	9,9,10	0.55	0	10,12,14	0.93	1 (10%)
3	FUB	BC	3	3	9,9,10	0.56	0	10,12,14	0.87	0
5	FUB	BD	1	5	9,9,10	0.55	0	10,12,14	1.02	1 (10%)
5	FUB	BD	2	5	9,9,10	0.52	0	10,12,14	0.86	0
5	FUB	BD	3	5	9,9,10	0.57	0	10,12,14	0.93	0
5	AHR	BD	4	5	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
5	AHR	BD	5	5	9,9,10	0.56	0	10,12,14	0.81	0
18	FUB	BE	1	18	9,9,10	0.60	0	10,12,14	0.91	0
18	FUB	BE	2	18	9,9,10	0.53	0	10,12,14	1.05	1 (10%)
18	GZL	BE	3	18	11,11,12	6.70	7 (63%)	14,15,17	1.55	2 (14%)
18	AHR	BE	4	18	9,9,10	0.56	0	10,12,14	0.80	0
18	AHR	BE	5	18	9,9,10	0.54	0	10,12,14	1.15	1 (10%)
15	FUB	CA	1	15	9,9,10	0.55	0	10,12,14	1.04	0
15	FUB	CA	2	15	9,9,10	0.54	0	10,12,14	0.83	0
15	GZL	CA	3	15	11,11,12	6.75	7 (63%)	14,15,17	1.18	1 (7%)
15	AHR	CA	4	15	9,9,10	0.60	0	10,12,14	1.27	2 (20%)
15	AHR	CA	5	15	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
6	FUB	CB	1	6	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
6	FUB	CB	2	6	9,9,10	0.56	0	10,12,14	0.87	0
6	GZL	CB	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.48	3 (21%)
3	FUB	CC	1	3	9,9,10	0.57	0	10,12,14	0.95	1 (10%)
3	FUB	CC	2	3	9,9,10	0.55	0	10,12,14	0.91	1 (10%)
3	FUB	CC	3	3	9,9,10	0.56	0	10,12,14	0.79	0
6	FUB	CD	1	6	9,9,10	0.56	0	10,12,14	0.96	0
6	FUB	CD	2	6	9,9,10	0.50	0	10,12,14	1.12	1 (10%)
6	GZL	CD	3	6	11,11,12	7.12	7 (63%)	14,15,17	4.08	5 (35%)
20	FUB	CE	1	20	9,9,10	0.56	0	10,12,14	0.79	0
20	FUB	CE	2	20	9,9,10	0.51	0	10,12,14	0.84	0
20	GZL	CE	3	20	11,11,12	6.69	7 (63%)	14,15,17	1.62	2 (14%)
20	AHR	CE	4	20	9,9,10	0.59	0	10,12,14	0.86	0
15	FUB	DA	1	15	9,9,10	0.57	0	10,12,14	0.99	1 (10%)
15	FUB	DA	2	15	9,9,10	0.56	0	10,12,14	0.82	0
15	GZL	DA	3	15	11,11,12	6.74	6 (54%)	14,15,17	1.34	1 (7%)
15	AHR	DA	4	15	9,9,10	0.55	0	10,12,14	1.13	1 (10%)
15	AHR	DA	5	15	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
17	NAG	DB	1	17,1	14,14,15	0.32	0	17,19,21	0.71	1 (5%)
17	NAG	DB	2	17	14,14,15	0.32	0	17,19,21	1.09	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
17	BMA	DB	3	17	11,11,12	0.23	0	15,15,17	1.23	2 (13%)
17	MAN	DB	4	17	11,11,12	0.31	0	15,15,17	1.18	2 (13%)
17	MAN	DB	5	17	11,11,12	0.24	0	15,15,17	0.73	0
17	MAN	DB	6	17	11,11,12	0.40	0	15,15,17	1.52	2 (13%)
4	FUB	DC	1	4	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
4	FUB	DC	2	4	9,9,10	0.56	0	10,12,14	0.83	0
4	FUB	DC	3	4	9,9,10	0.56	0	10,12,14	0.81	0
4	AHR	DC	4	4	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
3	FUB	DD	1	3	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
3	FUB	DD	2	3	9,9,10	0.57	0	10,12,14	0.80	0
3	FUB	DD	3	3	9,9,10	0.57	0	10,12,14	0.97	0
18	FUB	DE	1	18	9,9,10	0.52	0	10,12,14	1.09	1 (10%)
18	FUB	DE	2	18	9,9,10	0.51	0	10,12,14	0.81	0
18	GZL	DE	3	18	11,11,12	6.70	7 (63%)	14,15,17	1.66	2 (14%)
18	AHR	DE	4	18	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
18	AHR	DE	5	18	9,9,10	0.58	0	10,12,14	0.92	0
6	FUB	EA	1	6	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
6	FUB	EA	2	6	9,9,10	0.55	0	10,12,14	0.91	0
6	GZL	EA	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.37	1 (7%)
3	FUB	EB	1	3	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
3	FUB	EB	2	3	9,9,10	0.58	0	10,12,14	0.84	0
3	FUB	EB	3	3	9,9,10	0.57	0	10,12,14	0.98	0
5	FUB	EC	1	5	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
5	FUB	EC	2	5	9,9,10	0.59	0	10,12,14	1.16	0
5	FUB	EC	3	5	9,9,10	0.58	0	10,12,14	1.08	1 (10%)
5	AHR	EC	4	5	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
5	AHR	EC	5	5	9,9,10	0.56	0	10,12,14	0.80	0
3	FUB	ED	1	3	9,9,10	0.54	0	10,12,14	1.05	1 (10%)
3	FUB	ED	2	3	9,9,10	0.56	0	10,12,14	0.80	0
3	FUB	ED	3	3	9,9,10	0.58	0	10,12,14	0.80	0
20	FUB	EE	1	20	9,9,10	0.53	0	10,12,14	0.88	0
20	FUB	EE	2	20	9,9,10	0.55	0	10,12,14	1.10	1 (10%)
20	GZL	EE	3	20	11,11,12	6.73	7 (63%)	14,15,17	1.51	1 (7%)
20	AHR	EE	4	20	9,9,10	0.60	0	10,12,14	0.81	0
16	NAG	FA	1	16,1	14,14,15	0.42	0	17,19,21	0.59	0
16	NAG	FA	2	16	14,14,15	0.39	0	17,19,21	1.39	2 (11%)
12	FUB	FB	1	12	9,9,10	0.59	0	10,12,14	1.02	1 (10%)
12	FUB	FB	2	12	9,9,10	0.58	0	10,12,14	0.96	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
12	GZL	FB	3	12	11,11,12	6.67	7 (63%)	14,15,17	1.70	2 (14%)
12	AHR	FB	4	12	9,9,10	0.58	0	10,12,14	0.93	0
12	AHR	FB	5	12	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
6	FUB	FC	1	6	9,9,10	0.56	0	10,12,14	1.29	2 (20%)
6	FUB	FC	2	6	9,9,10	0.60	0	10,12,14	1.20	1 (10%)
6	GZL	FC	3	6	11,11,12	6.60	7 (63%)	14,15,17	2.44	4 (28%)
3	FUB	FD	1	3	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
3	FUB	FD	2	3	9,9,10	0.54	0	10,12,14	0.72	0
3	FUB	FD	3	3	9,9,10	0.58	0	10,12,14	0.90	0
21	FUB	FE	1	21	9,9,10	0.55	0	10,12,14	1.12	1 (10%)
21	FUB	FE	2	21	9,9,10	0.53	0	10,12,14	0.70	0
21	GZL	FE	3	21	11,11,12	6.75	6 (54%)	14,15,17	1.35	1 (7%)
21	AHR	FE	4	21	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
21	AHR	FE	5	21	9,9,10	0.60	0	10,12,14	1.02	1 (10%)
17	NAG	GA	1	17,1	14,14,15	0.35	0	17,19,21	0.79	1 (5%)
17	NAG	GA	2	17	14,14,15	0.33	0	17,19,21	0.94	0
17	BMA	GA	3	17	11,11,12	0.25	0	15,15,17	1.64	4 (26%)
17	MAN	GA	4	17	11,11,12	0.31	0	15,15,17	0.72	0
17	MAN	GA	5	17	11,11,12	0.24	0	15,15,17	0.62	0
17	MAN	GA	6	17	11,11,12	0.29	0	15,15,17	1.00	1 (6%)
13	FUB	GB	1	13	9,9,10	0.58	0	10,12,14	0.87	0
13	FUB	GB	2	13	9,9,10	0.59	0	10,12,14	0.92	0
13	GZL	GB	3	13	11,11,12	6.74	7 (63%)	14,15,17	1.29	1 (7%)
13	AHR	GB	4	13	9,9,10	0.56	0	10,12,14	0.99	0
3	FUB	GC	1	3	9,9,10	0.56	0	10,12,14	0.99	1 (10%)
3	FUB	GC	2	3	9,9,10	0.54	0	10,12,14	0.71	0
3	FUB	GC	3	3	9,9,10	0.58	0	10,12,14	0.87	0
6	FUB	GD	1	6	9,9,10	0.55	0	10,12,14	1.08	1 (10%)
6	FUB	GD	2	6	9,9,10	0.55	0	10,12,14	0.84	0
6	GZL	GD	3	6	11,11,12	6.71	7 (63%)	14,15,17	1.45	2 (14%)
22	FUB	GE	1	22	9,9,10	0.57	0	10,12,14	1.20	1 (10%)
22	FUB	GE	2	22	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
22	GZL	GE	3	22	11,11,12	6.71	7 (63%)	14,15,17	1.46	2 (14%)
22	AHR	GE	4	22	9,9,10	0.56	0	10,12,14	0.76	0
22	AHR	GE	5	22	9,9,10	0.59	0	10,12,14	1.48	3 (30%)
22	AHR	GE	6	22	9,9,10	0.54	0	10,12,14	0.77	0
3	FUB	HA	1	3	9,9,10	0.55	0	10,12,14	0.93	1 (10%)
3	FUB	HA	2	3	9,9,10	0.58	0	10,12,14	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	HA	3	3	9,9,10	0.59	0	10,12,14	1.02	1 (10%)
14	FUB	HB	1	14	9,9,10	0.55	0	10,12,14	0.76	0
14	FUB	HB	2	14	9,9,10	0.56	0	10,12,14	0.87	0
14	GZL	HB	3	14	11,11,12	6.65	7 (63%)	14,15,17	1.76	3 (21%)
14	FUB	HB	4	14	9,9,10	0.59	0	10,12,14	1.08	1 (10%)
3	FUB	HC	1	3	9,9,10	0.55	0	10,12,14	1.13	1 (10%)
3	FUB	HC	2	3	9,9,10	0.56	0	10,12,14	0.74	0
3	FUB	HC	3	3	9,9,10	0.57	0	10,12,14	0.92	0
7	FUB	HD	1	7	9,9,10	0.58	0	10,12,14	1.16	1 (10%)
7	FUB	HD	2	7	9,9,10	0.56	0	10,12,14	0.86	0
7	FUB	HD	3	7	9,9,10	0.56	0	10,12,14	0.99	0
7	AHR	HD	4	7	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
20	FUB	HE	1	20	9,9,10	0.59	0	10,12,14	1.15	1 (10%)
20	FUB	HE	2	20	9,9,10	0.54	0	10,12,14	0.96	0
20	GZL	HE	3	20	11,11,12	6.72	7 (63%)	14,15,17	1.64	2 (14%)
20	AHR	HE	4	20	9,9,10	0.56	0	10,12,14	0.99	0
3	FUB	IA	1	3	9,9,10	0.54	0	10,12,14	0.74	0
3	FUB	IA	2	3	9,9,10	0.54	0	10,12,14	0.92	1 (10%)
3	FUB	IA	3	3	9,9,10	0.56	0	10,12,14	0.78	0
12	FUB	IB	1	12	9,9,10	0.58	0	10,12,14	0.92	0
12	FUB	IB	2	12	9,9,10	0.56	0	10,12,14	0.95	1 (10%)
12	GZL	IB	3	12	11,11,12	6.72	7 (63%)	14,15,17	1.43	1 (7%)
12	AHR	IB	4	12	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
12	AHR	IB	5	12	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
3	FUB	IC	1	3	9,9,10	0.58	0	10,12,14	1.06	1 (10%)
3	FUB	IC	2	3	9,9,10	0.52	0	10,12,14	0.80	0
3	FUB	IC	3	3	9,9,10	0.56	0	10,12,14	0.85	0
3	FUB	ID	1	3	9,9,10	0.57	0	10,12,14	1.05	1 (10%)
3	FUB	ID	2	3	9,9,10	0.54	0	10,12,14	0.80	0
3	FUB	ID	3	3	9,9,10	0.59	0	10,12,14	0.86	0
18	FUB	IE	1	18	9,9,10	0.58	0	10,12,14	1.10	1 (10%)
18	FUB	IE	2	18	9,9,10	0.52	0	10,12,14	0.89	0
18	GZL	IE	3	18	11,11,12	6.68	7 (63%)	14,15,17	1.71	3 (21%)
18	AHR	IE	4	18	9,9,10	0.55	0	10,12,14	1.12	1 (10%)
18	AHR	IE	5	18	9,9,10	0.56	0	10,12,14	1.17	1 (10%)
3	FUB	J	1	3	9,9,10	0.55	0	10,12,14	0.83	0
3	FUB	J	2	3	9,9,10	0.56	0	10,12,14	0.95	0
3	FUB	J	3	3	9,9,10	0.60	0	10,12,14	0.92	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	FUB	JA	1	4	9,9,10	0.58	0	10,12,14	0.86	0
4	FUB	JA	2	4	9,9,10	0.58	0	10,12,14	1.04	0
4	FUB	JA	3	4	9,9,10	0.57	0	10,12,14	0.94	0
4	AHR	JA	4	4	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
4	FUB	JB	1	4	9,9,10	0.57	0	10,12,14	0.99	1 (10%)
4	FUB	JB	2	4	9,9,10	0.58	0	10,12,14	0.99	0
4	FUB	JB	3	4	9,9,10	0.58	0	10,12,14	0.88	0
4	AHR	JB	4	4	9,9,10	0.56	0	10,12,14	0.74	0
6	FUB	JC	1	6	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
6	FUB	JC	2	6	9,9,10	0.56	0	10,12,14	0.83	0
6	GZL	JC	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.44	1 (7%)
8	FUB	JD	1	8	9,9,10	0.56	0	10,12,14	0.81	0
8	FUB	JD	2	8	9,9,10	0.56	0	10,12,14	0.76	0
8	FUB	JD	3	8	9,9,10	0.59	0	10,12,14	0.77	0
8	AHR	JD	4	8	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
8	AHR	JD	5	8	9,9,10	0.58	0	10,12,14	0.96	0
18	FUB	JE	1	18	9,9,10	0.58	0	10,12,14	1.10	1 (10%)
18	FUB	JE	2	18	9,9,10	0.57	0	10,12,14	0.90	0
18	GZL	JE	3	18	11,11,12	6.70	7 (63%)	14,15,17	1.59	2 (14%)
18	AHR	JE	4	18	9,9,10	0.58	0	10,12,14	0.80	0
18	AHR	JE	5	18	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
3	FUB	K	1	3	9,9,10	0.56	0	10,12,14	0.63	0
3	FUB	K	2	3	9,9,10	0.54	0	10,12,14	0.81	0
3	FUB	K	3	3	9,9,10	0.55	0	10,12,14	0.76	0
5	FUB	KA	1	5	9,9,10	0.56	0	10,12,14	0.94	0
5	FUB	KA	2	5	9,9,10	0.59	0	10,12,14	0.96	0
5	FUB	KA	3	5	9,9,10	0.57	0	10,12,14	1.13	1 (10%)
5	AHR	KA	4	5	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
5	AHR	KA	5	5	9,9,10	0.59	0	10,12,14	1.01	1 (10%)
14	FUB	KB	1	14	9,9,10	0.58	0	10,12,14	0.98	0
14	FUB	KB	2	14	9,9,10	0.59	0	10,12,14	0.99	0
14	GZL	KB	3	14	11,11,12	6.64	7 (63%)	14,15,17	1.85	2 (14%)
14	FUB	KB	4	14	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
7	FUB	KC	1	7	9,9,10	0.57	0	10,12,14	1.14	1 (10%)
7	FUB	KC	2	7	9,9,10	0.56	0	10,12,14	0.77	0
7	FUB	KC	3	7	9,9,10	0.58	0	10,12,14	0.97	0
7	AHR	KC	4	7	9,9,10	0.56	0	10,12,14	1.00	1 (10%)
3	FUB	KD	1	3	9,9,10	0.57	0	10,12,14	0.98	1 (10%)
3	FUB	KD	2	3	9,9,10	0.56	0	10,12,14	0.92	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	KD	3	3	9,9,10	0.57	0	10,12,14	0.98	0
18	FUB	KE	1	18	9,9,10	0.59	0	10,12,14	1.10	0
18	FUB	KE	2	18	9,9,10	0.56	0	10,12,14	0.93	0
18	GZL	KE	3	18	11,11,12	6.68	7 (63%)	14,15,17	1.54	2 (14%)
18	AHR	KE	4	18	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
18	AHR	KE	5	18	9,9,10	0.57	0	10,12,14	1.01	0
4	FUB	L	1	4	9,9,10	0.59	0	10,12,14	0.64	0
4	FUB	L	2	4	9,9,10	0.56	0	10,12,14	0.92	0
4	FUB	L	3	4	9,9,10	0.60	0	10,12,14	0.82	0
4	AHR	L	4	4	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
6	FUB	LA	1	6	9,9,10	0.59	0	10,12,14	0.97	0
6	FUB	LA	2	6	9,9,10	0.56	0	10,12,14	1.26	1 (10%)
6	GZL	LA	3	6	11,11,12	7.12	7 (63%)	14,15,17	4.03	5 (35%)
3	FUB	LB	1	3	9,9,10	0.58	0	10,12,14	0.90	0
3	FUB	LB	2	3	9,9,10	0.57	0	10,12,14	0.85	0
3	FUB	LB	3	3	9,9,10	0.57	0	10,12,14	0.97	0
3	FUB	LC	1	3	9,9,10	0.58	0	10,12,14	1.02	0
3	FUB	LC	2	3	9,9,10	0.55	0	10,12,14	0.79	0
3	FUB	LC	3	3	9,9,10	0.58	0	10,12,14	0.84	0
4	FUB	LD	1	4	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
4	FUB	LD	2	4	9,9,10	0.57	0	10,12,14	0.79	0
4	FUB	LD	3	4	9,9,10	0.58	0	10,12,14	0.80	0
4	AHR	LD	4	4	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
19	FUB	LE	1	19	9,9,10	0.58	0	10,12,14	1.11	0
19	FUB	LE	2	19	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
19	GZL	LE	3	19	11,11,12	6.74	7 (63%)	14,15,17	1.38	1 (7%)
19	AHR	LE	4	19	9,9,10	0.55	0	10,12,14	0.96	0
5	FUB	M	1	5	9,9,10	0.56	0	10,12,14	0.93	0
5	FUB	M	2	5	9,9,10	0.58	0	10,12,14	1.29	2 (20%)
5	FUB	M	3	5	9,9,10	0.56	0	10,12,14	1.12	1 (10%)
5	AHR	M	4	5	9,9,10	0.58	0	10,12,14	1.06	1 (10%)
5	AHR	M	5	5	9,9,10	0.56	0	10,12,14	1.17	1 (10%)
3	FUB	MA	1	3	9,9,10	0.56	0	10,12,14	0.84	0
3	FUB	MA	2	3	9,9,10	0.55	0	10,12,14	0.83	0
3	FUB	MA	3	3	9,9,10	0.58	0	10,12,14	0.87	0
10	FUB	MB	1	10	9,9,10	0.58	0	10,12,14	1.00	1 (10%)
10	FUB	MB	2	10	9,9,10	0.58	0	10,12,14	1.04	0
10	FUB	MB	3	10	9,9,10	0.58	0	10,12,14	0.83	0
10	AHR	MB	4	10	9,9,10	0.57	0	10,12,14	1.06	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
10	AHR	MB	5	10	9,9,10	0.57	0	10,12,14	1.19	1 (10%)
8	FUB	MC	1	8	9,9,10	0.55	0	10,12,14	1.02	1 (10%)
8	FUB	MC	2	8	9,9,10	0.56	0	10,12,14	0.78	0
8	FUB	MC	3	8	9,9,10	0.56	0	10,12,14	0.83	0
8	AHR	MC	4	8	9,9,10	0.57	0	10,12,14	1.12	1 (10%)
8	AHR	MC	5	8	9,9,10	0.59	0	10,12,14	1.05	1 (10%)
4	FUB	MD	1	4	9,9,10	0.53	0	10,12,14	0.90	0
4	FUB	MD	2	4	9,9,10	0.55	0	10,12,14	0.84	0
4	FUB	MD	3	4	9,9,10	0.59	0	10,12,14	0.97	0
4	AHR	MD	4	4	9,9,10	0.56	0	10,12,14	0.79	0
6	FUB	ME	1	6	9,9,10	0.58	0	10,12,14	0.89	0
6	FUB	ME	2	6	9,9,10	0.57	0	10,12,14	0.80	0
6	GZL	ME	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.47	1 (7%)
6	FUB	N	1	6	9,9,10	0.58	0	10,12,14	1.05	0
6	FUB	N	2	6	9,9,10	0.62	0	10,12,14	1.15	2 (20%)
6	GZL	N	3	6	11,11,12	6.64	7 (63%)	14,15,17	3.38	5 (35%)
3	FUB	NA	1	3	9,9,10	0.54	0	10,12,14	1.10	1 (10%)
3	FUB	NA	2	3	9,9,10	0.54	0	10,12,14	0.78	0
3	FUB	NA	3	3	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
4	FUB	NB	1	4	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
4	FUB	NB	2	4	9,9,10	0.58	0	10,12,14	0.95	0
4	FUB	NB	3	4	9,9,10	0.57	0	10,12,14	0.91	0
4	AHR	NB	4	4	9,9,10	0.56	0	10,12,14	1.00	1 (10%)
3	FUB	NC	1	3	9,9,10	0.58	0	10,12,14	0.91	0
3	FUB	NC	2	3	9,9,10	0.57	0	10,12,14	0.85	0
3	FUB	NC	3	3	9,9,10	0.56	0	10,12,14	0.98	0
9	FUB	ND	1	9	9,9,10	0.62	0	10,12,14	1.04	0
9	FUB	ND	2	9	9,9,10	0.58	0	10,12,14	1.09	1 (10%)
19	FUB	NE	1	19	9,9,10	0.58	0	10,12,14	0.92	0
19	FUB	NE	2	19	9,9,10	0.57	0	10,12,14	0.76	0
19	GZL	NE	3	19	11,11,12	6.71	7 (63%)	14,15,17	1.53	2 (14%)
19	AHR	NE	4	19	9,9,10	0.57	0	10,12,14	0.94	0
3	FUB	O	1	3	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
3	FUB	O	2	3	9,9,10	0.56	0	10,12,14	0.83	0
3	FUB	O	3	3	9,9,10	0.59	0	10,12,14	0.98	0
3	FUB	OA	1	3	9,9,10	0.58	0	10,12,14	1.08	1 (10%)
3	FUB	OA	2	3	9,9,10	0.57	0	10,12,14	0.92	0
3	FUB	OA	3	3	9,9,10	0.57	0	10,12,14	0.94	0
3	FUB	OB	1	3	9,9,10	0.59	0	10,12,14	0.98	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	OB	2	3	9,9,10	0.59	0	10,12,14	0.90	0
3	FUB	OB	3	3	9,9,10	0.58	0	10,12,14	0.98	0
4	FUB	OC	1	4	9,9,10	0.53	0	10,12,14	0.89	0
4	FUB	OC	2	4	9,9,10	0.58	0	10,12,14	0.69	0
4	FUB	OC	3	4	9,9,10	0.56	0	10,12,14	0.82	0
4	AHR	OC	4	4	9,9,10	0.56	0	10,12,14	1.13	1 (10%)
4	FUB	OD	1	4	9,9,10	0.53	0	10,12,14	1.05	1 (10%)
4	FUB	OD	2	4	9,9,10	0.51	0	10,12,14	0.81	0
4	FUB	OD	3	4	9,9,10	0.58	0	10,12,14	0.86	0
4	AHR	OD	4	4	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
6	FUB	OE	1	6	9,9,10	0.62	0	10,12,14	0.78	0
6	FUB	OE	2	6	9,9,10	0.58	0	10,12,14	0.90	0
6	GZL	OE	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.60	2 (14%)
3	FUB	P	1	3	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
3	FUB	P	2	3	9,9,10	0.56	0	10,12,14	0.87	0
3	FUB	P	3	3	9,9,10	0.59	0	10,12,14	0.94	0
6	FUB	PA	1	6	9,9,10	0.58	0	10,12,14	1.00	0
6	FUB	PA	2	6	9,9,10	0.57	0	10,12,14	0.90	0
6	GZL	PA	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.44	1 (7%)
3	FUB	PB	1	3	9,9,10	0.56	0	10,12,14	0.92	1 (10%)
3	FUB	PB	2	3	9,9,10	0.57	0	10,12,14	0.90	0
3	FUB	PB	3	3	9,9,10	0.56	0	10,12,14	0.88	0
4	FUB	PC	1	4	9,9,10	0.53	0	10,12,14	0.97	0
4	FUB	PC	2	4	9,9,10	0.54	0	10,12,14	0.82	0
4	FUB	PC	3	4	9,9,10	0.57	0	10,12,14	0.95	0
4	AHR	PC	4	4	9,9,10	0.64	0	10,12,14	1.23	2 (20%)
10	FUB	PD	1	10	9,9,10	0.54	0	10,12,14	1.06	1 (10%)
10	FUB	PD	2	10	9,9,10	0.59	0	10,12,14	0.94	0
10	FUB	PD	3	10	9,9,10	0.59	0	10,12,14	0.87	0
10	AHR	PD	4	10	9,9,10	0.57	0	10,12,14	1.13	1 (10%)
10	AHR	PD	5	10	9,9,10	0.58	0	10,12,14	1.00	0
18	FUB	PE	1	18	9,9,10	0.55	0	10,12,14	1.02	1 (10%)
18	FUB	PE	2	18	9,9,10	0.55	0	10,12,14	0.74	0
18	GZL	PE	3	18	11,11,12	6.75	7 (63%)	14,15,17	1.40	1 (7%)
18	AHR	PE	4	18	9,9,10	0.56	0	10,12,14	0.82	0
18	AHR	PE	5	18	9,9,10	0.57	0	10,12,14	1.03	0
3	FUB	Q	1	3	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
3	FUB	Q	2	3	9,9,10	0.55	0	10,12,14	0.80	0
3	FUB	Q	3	3	9,9,10	0.56	0	10,12,14	0.80	0
7	FUB	QA	1	7	9,9,10	0.55	0	10,12,14	1.17	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	FUB	QA	2	7	9,9,10	0.59	0	10,12,14	0.88	0
7	FUB	QA	3	7	9,9,10	0.59	0	10,12,14	1.04	1 (10%)
7	AHR	QA	4	7	9,9,10	0.55	0	10,12,14	0.87	0
3	FUB	QB	1	3	9,9,10	0.59	0	10,12,14	0.95	1 (10%)
3	FUB	QB	2	3	9,9,10	0.59	0	10,12,14	0.87	0
3	FUB	QB	3	3	9,9,10	0.54	0	10,12,14	0.80	0
9	FUB	QC	1	9	9,9,10	0.56	0	10,12,14	0.93	0
9	FUB	QC	2	9	9,9,10	0.57	0	10,12,14	0.94	0
3	FUB	QD	1	3	9,9,10	0.57	0	10,12,14	0.76	0
3	FUB	QD	2	3	9,9,10	0.59	0	10,12,14	0.96	0
3	FUB	QD	3	3	9,9,10	0.56	0	10,12,14	0.88	0
22	FUB	QE	1	22	9,9,10	0.56	0	10,12,14	0.86	1 (10%)
22	FUB	QE	2	22	9,9,10	0.57	0	10,12,14	0.95	0
22	GZL	QE	3	22	11,11,12	6.75	7 (63%)	14,15,17	1.43	1 (7%)
22	AHR	QE	4	22	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
22	AHR	QE	5	22	9,9,10	0.57	0	10,12,14	0.87	0
22	AHR	QE	6	22	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
6	FUB	R	1	6	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
6	FUB	R	2	6	9,9,10	0.57	0	10,12,14	0.91	0
6	GZL	R	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.49	1 (7%)
3	FUB	RA	1	3	9,9,10	0.56	0	10,12,14	1.09	1 (10%)
3	FUB	RA	2	3	9,9,10	0.56	0	10,12,14	0.84	0
3	FUB	RA	3	3	9,9,10	0.58	0	10,12,14	0.94	0
3	FUB	RB	1	3	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
3	FUB	RB	2	3	9,9,10	0.60	0	10,12,14	1.00	0
3	FUB	RB	3	3	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
4	FUB	RC	1	4	9,9,10	0.55	0	10,12,14	0.94	0
4	FUB	RC	2	4	9,9,10	0.55	0	10,12,14	0.71	0
4	FUB	RC	3	4	9,9,10	0.59	0	10,12,14	0.94	0
4	AHR	RC	4	4	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
4	FUB	RD	1	4	9,9,10	0.55	0	10,12,14	0.81	0
4	FUB	RD	2	4	9,9,10	0.58	0	10,12,14	0.97	1 (10%)
4	FUB	RD	3	4	9,9,10	0.59	0	10,12,14	0.95	0
4	AHR	RD	4	4	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
22	FUB	RE	1	22	9,9,10	0.58	0	10,12,14	1.05	0
22	FUB	RE	2	22	9,9,10	0.56	0	10,12,14	0.90	0
22	GZL	RE	3	22	11,11,12	6.75	7 (63%)	14,15,17	1.36	1 (7%)
22	AHR	RE	4	22	9,9,10	0.57	0	10,12,14	1.05	1 (10%)
22	AHR	RE	5	22	9,9,10	0.55	0	10,12,14	1.19	2 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	AHR	RE	6	22	9,9,10	0.62	0	10,12,14	1.23	1 (10%)
7	FUB	S	1	7	9,9,10	0.56	0	10,12,14	1.15	1 (10%)
7	FUB	S	2	7	9,9,10	0.56	0	10,12,14	0.81	0
7	FUB	S	3	7	9,9,10	0.55	0	10,12,14	1.04	1 (10%)
7	AHR	S	4	7	9,9,10	0.59	0	10,12,14	1.03	1 (10%)
8	FUB	SA	1	8	9,9,10	0.57	0	10,12,14	0.97	0
8	FUB	SA	2	8	9,9,10	0.57	0	10,12,14	0.85	0
8	FUB	SA	3	8	9,9,10	0.55	0	10,12,14	0.96	1 (10%)
8	AHR	SA	4	8	9,9,10	0.60	0	10,12,14	1.00	0
8	AHR	SA	5	8	9,9,10	0.58	0	10,12,14	0.85	0
3	FUB	SB	1	3	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
3	FUB	SB	2	3	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
3	FUB	SB	3	3	9,9,10	0.58	0	10,12,14	1.02	1 (10%)
10	FUB	SC	1	10	9,9,10	0.57	0	10,12,14	0.93	0
10	FUB	SC	2	10	9,9,10	0.57	0	10,12,14	0.82	0
10	FUB	SC	3	10	9,9,10	0.60	0	10,12,14	0.89	0
10	AHR	SC	4	10	9,9,10	0.57	0	10,12,14	0.88	0
10	AHR	SC	5	10	9,9,10	0.59	0	10,12,14	1.05	1 (10%)
4	FUB	SD	1	4	9,9,10	0.57	0	10,12,14	1.01	0
4	FUB	SD	2	4	9,9,10	0.58	0	10,12,14	1.09	1 (10%)
4	FUB	SD	3	4	9,9,10	0.58	0	10,12,14	0.87	0
4	AHR	SD	4	4	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
18	FUB	SE	1	18	9,9,10	0.56	0	10,12,14	1.16	1 (10%)
18	FUB	SE	2	18	9,9,10	0.53	0	10,12,14	0.86	0
18	GZL	SE	3	18	11,11,12	6.75	7 (63%)	14,15,17	1.40	1 (7%)
18	AHR	SE	4	18	9,9,10	0.57	0	10,12,14	0.99	0
18	AHR	SE	5	18	9,9,10	0.56	0	10,12,14	0.98	0
3	FUB	T	1	3	9,9,10	0.54	0	10,12,14	1.10	1 (10%)
3	FUB	T	2	3	9,9,10	0.56	0	10,12,14	0.82	0
3	FUB	T	3	3	9,9,10	0.58	0	10,12,14	0.96	0
3	FUB	TA	1	3	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
3	FUB	TA	2	3	9,9,10	0.54	0	10,12,14	1.02	1 (10%)
3	FUB	TA	3	3	9,9,10	0.57	0	10,12,14	0.81	0
3	FUB	TB	1	3	9,9,10	0.55	0	10,12,14	0.74	0
3	FUB	TB	2	3	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
3	FUB	TB	3	3	9,9,10	0.57	0	10,12,14	0.86	0
3	FUB	TC	1	3	9,9,10	0.59	0	10,12,14	1.13	1 (10%)
3	FUB	TC	2	3	9,9,10	0.58	0	10,12,14	1.04	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	TC	3	3	9,9,10	0.57	0	10,12,14	1.09	1 (10%)
3	FUB	TD	1	3	9,9,10	0.56	0	10,12,14	0.79	0
3	FUB	TD	2	3	9,9,10	0.59	0	10,12,14	0.91	0
3	FUB	TD	3	3	9,9,10	0.57	0	10,12,14	0.90	0
20	FUB	TE	1	20	9,9,10	0.55	0	10,12,14	1.09	1 (10%)
20	FUB	TE	2	20	9,9,10	0.57	0	10,12,14	0.76	0
20	GZL	TE	3	20	11,11,12	6.74	7 (63%)	14,15,17	1.56	1 (7%)
20	AHR	TE	4	20	9,9,10	0.56	0	10,12,14	0.83	0
8	FUB	U	1	8	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
8	FUB	U	2	8	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
8	FUB	U	3	8	9,9,10	0.58	0	10,12,14	0.90	0
8	AHR	U	4	8	9,9,10	0.57	0	10,12,14	1.12	1 (10%)
8	AHR	U	5	8	9,9,10	0.59	0	10,12,14	0.92	0
4	FUB	UA	1	4	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
4	FUB	UA	2	4	9,9,10	0.57	0	10,12,14	0.83	0
4	FUB	UA	3	4	9,9,10	0.57	0	10,12,14	0.88	0
4	AHR	UA	4	4	9,9,10	0.58	0	10,12,14	0.89	0
3	FUB	UB	1	3	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
3	FUB	UB	2	3	9,9,10	0.56	0	10,12,14	0.74	0
3	FUB	UB	3	3	9,9,10	0.57	0	10,12,14	0.96	0
4	FUB	UC	1	4	9,9,10	0.52	0	10,12,14	0.89	0
4	FUB	UC	2	4	9,9,10	0.56	0	10,12,14	0.93	0
4	FUB	UC	3	4	9,9,10	0.57	0	10,12,14	0.94	0
4	AHR	UC	4	4	9,9,10	0.59	0	10,12,14	0.93	0
7	FUB	UD	1	7	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
7	FUB	UD	2	7	9,9,10	0.56	0	10,12,14	0.70	0
7	FUB	UD	3	7	9,9,10	0.57	0	10,12,14	0.84	0
7	AHR	UD	4	7	9,9,10	0.57	0	10,12,14	0.77	0
20	FUB	UE	1	20	9,9,10	0.54	0	10,12,14	0.87	0
20	FUB	UE	2	20	9,9,10	0.49	0	10,12,14	0.99	0
20	GZL	UE	3	20	11,11,12	6.75	7 (63%)	14,15,17	1.31	1 (7%)
20	AHR	UE	4	20	9,9,10	0.58	0	10,12,14	0.77	0
3	FUB	V	1	3	9,9,10	0.57	0	10,12,14	0.92	0
3	FUB	V	2	3	9,9,10	0.56	0	10,12,14	0.90	0
3	FUB	V	3	3	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
4	FUB	VA	1	4	9,9,10	0.55	0	10,12,14	0.95	0
4	FUB	VA	2	4	9,9,10	0.57	0	10,12,14	0.90	0
4	FUB	VA	3	4	9,9,10	0.55	0	10,12,14	0.83	0
4	AHR	VA	4	4	9,9,10	0.60	0	10,12,14	0.76	0
10	FUB	VB	1	10	9,9,10	0.54	0	10,12,14	0.95	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
10	FUB	VB	2	10	9,9,10	0.56	0	10,12,14	0.81	0
10	FUB	VB	3	10	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
10	AHR	VB	4	10	9,9,10	0.58	0	10,12,14	0.79	0
10	AHR	VB	5	10	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
4	FUB	VC	1	4	9,9,10	0.55	0	10,12,14	0.85	0
4	FUB	VC	2	4	9,9,10	0.58	0	10,12,14	0.93	0
4	FUB	VC	3	4	9,9,10	0.58	0	10,12,14	0.85	0
4	AHR	VC	4	4	9,9,10	0.56	0	10,12,14	1.04	1 (10%)
4	FUB	VD	1	4	9,9,10	0.57	0	10,12,14	0.92	0
4	FUB	VD	2	4	9,9,10	0.58	0	10,12,14	0.99	1 (10%)
4	FUB	VD	3	4	9,9,10	0.58	0	10,12,14	0.86	0
4	AHR	VD	4	4	9,9,10	0.57	0	10,12,14	1.09	1 (10%)
22	FUB	VE	1	22	9,9,10	0.56	0	10,12,14	1.33	1 (10%)
22	FUB	VE	2	22	9,9,10	0.53	0	10,12,14	0.97	0
22	GZL	VE	3	22	11,11,12	6.73	7 (63%)	14,15,17	1.41	1 (7%)
22	AHR	VE	4	22	9,9,10	0.57	0	10,12,14	1.15	1 (10%)
22	AHR	VE	5	22	9,9,10	0.58	0	10,12,14	0.96	1 (10%)
22	AHR	VE	6	22	9,9,10	0.58	0	10,12,14	0.94	0
4	FUB	W	1	4	9,9,10	0.57	0	10,12,14	0.84	0
4	FUB	W	2	4	9,9,10	0.57	0	10,12,14	0.76	0
4	FUB	W	3	4	9,9,10	0.57	0	10,12,14	0.83	0
4	AHR	W	4	4	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
9	FUB	WA	1	9	9,9,10	0.56	0	10,12,14	0.84	0
9	FUB	WA	2	9	9,9,10	0.58	0	10,12,14	0.95	0
13	FUB	WB	1	13	9,9,10	0.54	0	10,12,14	0.95	0
13	FUB	WB	2	13	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
13	GZL	WB	3	13	11,11,12	6.80	7 (63%)	14,15,17	1.26	1 (7%)
13	AHR	WB	4	13	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
3	FUB	WC	1	3	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
3	FUB	WC	2	3	9,9,10	0.57	0	10,12,14	0.93	0
3	FUB	WC	3	3	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
7	FUB	WD	1	7	9,9,10	0.60	0	10,12,14	0.93	0
7	FUB	WD	2	7	9,9,10	0.59	0	10,12,14	1.10	0
7	FUB	WD	3	7	9,9,10	0.58	0	10,12,14	0.95	0
7	AHR	WD	4	7	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
20	FUB	WE	1	20	9,9,10	0.54	0	10,12,14	0.93	0
20	FUB	WE	2	20	9,9,10	0.56	0	10,12,14	0.81	0
20	GZL	WE	3	20	11,11,12	6.73	7 (63%)	14,15,17	1.36	1 (7%)
20	AHR	WE	4	20	9,9,10	0.57	0	10,12,14	1.11	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	FUB	X	1	4	9,9,10	0.54	0	10,12,14	0.95	1 (10%)
4	FUB	X	2	4	9,9,10	0.55	0	10,12,14	0.79	0
4	FUB	X	3	4	9,9,10	0.57	0	10,12,14	0.83	0
4	AHR	X	4	4	9,9,10	0.58	0	10,12,14	0.98	0
3	FUB	XA	1	3	9,9,10	0.57	0	10,12,14	1.04	0
3	FUB	XA	2	3	9,9,10	0.53	0	10,12,14	0.65	0
3	FUB	XA	3	3	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
6	FUB	XB	1	6	9,9,10	0.57	0	10,12,14	1.02	0
6	FUB	XB	2	6	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
6	GZL	XB	3	6	11,11,12	7.02	6 (54%)	14,15,17	3.89	4 (28%)
7	FUB	XC	1	7	9,9,10	0.58	0	10,12,14	1.04	0
7	FUB	XC	2	7	9,9,10	0.53	0	10,12,14	0.99	1 (10%)
7	FUB	XC	3	7	9,9,10	0.59	0	10,12,14	0.87	0
7	AHR	XC	4	7	9,9,10	0.58	0	10,12,14	0.79	0
11	FUB	XD	1	11	9,9,10	0.66	0	10,12,14	1.19	1 (10%)
11	AHR	XD	2	11	9,9,10	0.58	0	10,12,14	1.00	1 (10%)
11	AHR	XD	3	11	9,9,10	0.56	0	10,12,14	1.09	1 (10%)
23	FUB	XE	1	23	9,9,10	0.56	0	10,12,14	1.20	1 (10%)
23	FUB	XE	2	23	9,9,10	0.56	0	10,12,14	0.71	0
23	GZL	XE	3	23	11,11,12	6.72	7 (63%)	14,15,17	1.41	1 (7%)
23	AHR	XE	4	23	9,9,10	0.56	0	10,12,14	0.88	1 (10%)
23	AHR	XE	5	23	9,9,10	0.57	0	10,12,14	0.92	0
23	AHR	XE	6	23	9,9,10	0.56	0	10,12,14	0.98	1 (10%)
9	FUB	Y	1	9	9,9,10	0.59	0	10,12,14	1.04	1 (10%)
9	FUB	Y	2	9	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
10	FUB	YA	1	10	9,9,10	0.57	0	10,12,14	0.82	0
10	FUB	YA	2	10	9,9,10	0.58	0	10,12,14	0.85	0
10	FUB	YA	3	10	9,9,10	0.57	0	10,12,14	0.82	0
10	AHR	YA	4	10	9,9,10	0.58	0	10,12,14	0.99	0
10	AHR	YA	5	10	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
13	FUB	YB	1	13	9,9,10	0.53	0	10,12,14	0.76	0
13	FUB	YB	2	13	9,9,10	0.57	0	10,12,14	0.75	0
13	GZL	YB	3	13	11,11,12	6.78	7 (63%)	14,15,17	1.14	1 (7%)
13	AHR	YB	4	13	9,9,10	0.56	0	10,12,14	1.12	1 (10%)
4	FUB	YC	1	4	9,9,10	0.57	0	10,12,14	0.87	0
4	FUB	YC	2	4	9,9,10	0.55	0	10,12,14	0.97	1 (10%)
4	FUB	YC	3	4	9,9,10	0.57	0	10,12,14	0.81	0
4	AHR	YC	4	4	9,9,10	0.57	0	10,12,14	1.10	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
9	FUB	YD	1	9	9,9,10	0.55	0	10,12,14	0.60	0
9	FUB	YD	2	9	9,9,10	0.55	0	10,12,14	0.78	0
24	FUB	YE	1	24	9,9,10	0.54	0	10,12,14	1.47	1 (10%)
24	FUB	YE	2	24	9,9,10	0.55	0	10,12,14	0.80	0
24	GZL	YE	3	24	11,11,12	6.73	7 (63%)	14,15,17	1.39	1 (7%)
24	AHR	YE	4	24	9,9,10	0.59	0	10,12,14	1.10	2 (20%)
24	AHR	YE	5	24	9,9,10	0.58	0	10,12,14	1.18	1 (10%)
24	AHR	YE	6	24	9,9,10	0.59	0	10,12,14	1.00	1 (10%)
4	FUB	Z	1	4	9,9,10	0.55	0	10,12,14	1.13	1 (10%)
4	FUB	Z	2	4	9,9,10	0.55	0	10,12,14	0.96	1 (10%)
4	FUB	Z	3	4	9,9,10	0.56	0	10,12,14	0.81	0
4	AHR	Z	4	4	9,9,10	0.58	0	10,12,14	1.15	1 (10%)
3	FUB	ZA	1	3	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
3	FUB	ZA	2	3	9,9,10	0.56	0	10,12,14	0.90	0
3	FUB	ZA	3	3	9,9,10	0.57	0	10,12,14	0.94	0
13	FUB	ZB	1	13	9,9,10	0.59	0	10,12,14	1.00	0
13	FUB	ZB	2	13	9,9,10	0.57	0	10,12,14	0.93	0
13	GZL	ZB	3	13	11,11,12	6.73	7 (63%)	14,15,17	1.57	3 (21%)
13	AHR	ZB	4	13	9,9,10	0.57	0	10,12,14	0.94	0
7	FUB	ZC	1	7	9,9,10	0.55	0	10,12,14	0.82	0
7	FUB	ZC	2	7	9,9,10	0.57	0	10,12,14	0.91	0
7	FUB	ZC	3	7	9,9,10	0.55	0	10,12,14	1.13	1 (10%)
7	AHR	ZC	4	7	9,9,10	0.57	0	10,12,14	1.01	0
4	FUB	ZD	1	4	9,9,10	0.57	0	10,12,14	0.99	1 (10%)
4	FUB	ZD	2	4	9,9,10	0.57	0	10,12,14	0.85	0
4	FUB	ZD	3	4	9,9,10	0.59	0	10,12,14	0.92	0
4	AHR	ZD	4	4	9,9,10	0.58	0	10,12,14	1.00	0
6	FUB	ZE	1	6	9,9,10	0.57	0	10,12,14	0.86	0
6	FUB	ZE	2	6	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
6	GZL	ZE	3	6	11,11,12	6.70	7 (63%)	14,15,17	1.41	1 (7%)
10	FUB	a	1	10	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
10	FUB	a	2	10	9,9,10	0.56	0	10,12,14	0.97	1 (10%)
10	FUB	a	3	10	9,9,10	0.57	0	10,12,14	0.82	0
10	AHR	a	4	10	9,9,10	0.55	0	10,12,14	1.18	1 (10%)
10	AHR	a	5	10	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
4	FUB	aA	1	4	9,9,10	0.55	0	10,12,14	0.77	0
4	FUB	aA	2	4	9,9,10	0.58	0	10,12,14	0.92	0
4	FUB	aA	3	4	9,9,10	0.57	0	10,12,14	0.96	0
4	AHR	aA	4	4	9,9,10	0.57	0	10,12,14	0.98	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	FUB	aB	1	6	9,9,10	0.57	0	10,12,14	0.89	0
6	FUB	aB	2	6	9,9,10	0.54	0	10,12,14	1.25	2 (20%)
6	GZL	aB	3	6	11,11,12	6.71	7 (63%)	14,15,17	1.48	2 (14%)
11	FUB	aC	1	11	9,9,10	0.64	0	10,12,14	1.07	0
11	AHR	aC	2	11	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
11	AHR	aC	3	11	9,9,10	0.58	0	10,12,14	1.00	1 (10%)
3	FUB	aD	1	3	9,9,10	0.57	0	10,12,14	0.92	0
3	FUB	aD	2	3	9,9,10	0.57	0	10,12,14	0.95	0
3	FUB	aD	3	3	9,9,10	0.58	0	10,12,14	0.89	0
19	FUB	aE	1	19	9,9,10	0.59	0	10,12,14	0.85	0
19	FUB	aE	2	19	9,9,10	0.57	0	10,12,14	0.98	0
19	GZL	aE	3	19	11,11,12	6.69	7 (63%)	14,15,17	1.69	3 (21%)
19	AHR	aE	4	19	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
3	FUB	b	1	3	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
3	FUB	b	2	3	9,9,10	0.57	0	10,12,14	0.94	0
3	FUB	b	3	3	9,9,10	0.58	0	10,12,14	0.92	0
4	FUB	bA	1	4	9,9,10	0.55	0	10,12,14	0.88	0
4	FUB	bA	2	4	9,9,10	0.57	0	10,12,14	0.88	0
4	FUB	bA	3	4	9,9,10	0.57	0	10,12,14	0.98	0
4	AHR	bA	4	4	9,9,10	0.57	0	10,12,14	0.88	0
6	FUB	bB	1	6	9,9,10	0.55	0	10,12,14	1.05	1 (10%)
6	FUB	bB	2	6	9,9,10	0.59	0	10,12,14	0.96	1 (10%)
6	GZL	bB	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.43	1 (7%)
9	FUB	bC	1	9	9,9,10	0.56	0	10,12,14	0.70	0
9	FUB	bC	2	9	9,9,10	0.54	0	10,12,14	0.82	0
3	FUB	bD	1	3	9,9,10	0.51	0	10,12,14	0.87	0
3	FUB	bD	2	3	9,9,10	0.58	0	10,12,14	0.87	0
3	FUB	bD	3	3	9,9,10	0.57	0	10,12,14	0.82	0
6	FUB	bE	1	6	9,9,10	0.61	0	10,12,14	1.01	0
6	FUB	bE	2	6	9,9,10	0.55	0	10,12,14	0.86	0
6	GZL	bE	3	6	11,11,12	6.77	7 (63%)	14,15,17	1.55	1 (7%)
4	FUB	c	1	4	9,9,10	0.56	0	10,12,14	0.79	0
4	FUB	c	2	4	9,9,10	0.58	0	10,12,14	0.89	0
4	FUB	c	3	4	9,9,10	0.55	0	10,12,14	0.92	0
4	AHR	c	4	4	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
3	FUB	cA	1	3	9,9,10	0.56	0	10,12,14	0.83	0
3	FUB	cA	2	3	9,9,10	0.58	0	10,12,14	0.99	1 (10%)
3	FUB	cA	3	3	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
6	FUB	cB	1	6	9,9,10	0.57	0	10,12,14	1.00	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	FUB	cB	2	6	9,9,10	0.58	0	10,12,14	1.11	1 (10%)
6	GZL	cB	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.59	2 (14%)
4	FUB	cC	1	4	9,9,10	0.56	0	10,12,14	1.19	1 (10%)
4	FUB	cC	2	4	9,9,10	0.57	0	10,12,14	0.85	0
4	FUB	cC	3	4	9,9,10	0.57	0	10,12,14	0.95	0
4	AHR	cC	4	4	9,9,10	0.57	0	10,12,14	1.06	1 (10%)
12	FUB	cD	1	12	9,9,10	0.57	0	10,12,14	0.80	0
12	FUB	cD	2	12	9,9,10	0.59	0	10,12,14	0.96	0
12	GZL	cD	3	12	11,11,12	6.72	7 (63%)	14,15,17	1.45	2 (14%)
12	AHR	cD	4	12	9,9,10	0.58	0	10,12,14	0.98	0
12	AHR	cD	5	12	9,9,10	0.59	0	10,12,14	1.02	1 (10%)
18	FUB	cE	1	18	9,9,10	0.55	0	10,12,14	1.05	1 (10%)
18	FUB	cE	2	18	9,9,10	0.59	0	10,12,14	0.88	0
18	GZL	cE	3	18	11,11,12	6.74	7 (63%)	14,15,17	1.66	2 (14%)
18	AHR	cE	4	18	9,9,10	0.57	0	10,12,14	0.95	0
18	AHR	cE	5	18	9,9,10	0.57	0	10,12,14	0.87	0
4	FUB	d	1	4	9,9,10	0.55	0	10,12,14	0.97	1 (10%)
4	FUB	d	2	4	9,9,10	0.57	0	10,12,14	0.92	0
4	FUB	d	3	4	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
4	AHR	d	4	4	9,9,10	0.56	0	10,12,14	1.15	1 (10%)
7	FUB	dA	1	7	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
7	FUB	dA	2	7	9,9,10	0.54	0	10,12,14	1.07	1 (10%)
7	FUB	dA	3	7	9,9,10	0.56	0	10,12,14	0.88	0
7	AHR	dA	4	7	9,9,10	0.57	0	10,12,14	0.78	0
13	FUB	dB	1	13	9,9,10	0.58	0	10,12,14	0.74	0
13	FUB	dB	2	13	9,9,10	0.56	0	10,12,14	1.12	0
13	GZL	dB	3	13	11,11,12	6.75	7 (63%)	14,15,17	1.87	4 (28%)
13	AHR	dB	4	13	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
3	FUB	dC	1	3	9,9,10	0.56	0	10,12,14	0.86	0
3	FUB	dC	2	3	9,9,10	0.58	0	10,12,14	0.86	0
3	FUB	dC	3	3	9,9,10	0.58	0	10,12,14	1.09	1 (10%)
13	FUB	dD	1	13	9,9,10	0.59	0	10,12,14	0.86	0
13	FUB	dD	2	13	9,9,10	0.56	0	10,12,14	0.84	0
13	GZL	dD	3	13	11,11,12	6.72	7 (63%)	14,15,17	1.27	1 (7%)
13	AHR	dD	4	13	9,9,10	0.56	0	10,12,14	0.93	0
22	FUB	dE	1	22	9,9,10	0.56	0	10,12,14	0.97	1 (10%)
22	FUB	dE	2	22	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
22	GZL	dE	3	22	11,11,12	6.72	7 (63%)	14,15,17	1.53	1 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	AHR	dE	4	22	9,9,10	0.55	0	10,12,14	1.14	1 (10%)
22	AHR	dE	5	22	9,9,10	0.58	0	10,12,14	1.10	0
22	AHR	dE	6	22	9,9,10	0.55	0	10,12,14	1.09	1 (10%)
3	FUB	e	1	3	9,9,10	0.59	0	10,12,14	0.83	0
3	FUB	e	2	3	9,9,10	0.58	0	10,12,14	0.93	0
3	FUB	e	3	3	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
4	FUB	eA	1	4	9,9,10	0.58	0	10,12,14	0.98	0
4	FUB	eA	2	4	9,9,10	0.56	0	10,12,14	0.82	0
4	FUB	eA	3	4	9,9,10	0.58	0	10,12,14	0.99	0
4	AHR	eA	4	4	9,9,10	0.58	0	10,12,14	0.95	0
15	FUB	eB	1	15	9,9,10	0.55	0	10,12,14	1.00	1 (10%)
15	FUB	eB	2	15	9,9,10	0.57	0	10,12,14	0.92	0
15	GZL	eB	3	15	11,11,12	6.75	7 (63%)	14,15,17	1.49	2 (14%)
15	AHR	eB	4	15	9,9,10	0.61	0	10,12,14	1.21	1 (10%)
15	AHR	eB	5	15	9,9,10	0.59	0	10,12,14	0.95	0
3	FUB	eC	1	3	9,9,10	0.55	0	10,12,14	0.69	0
3	FUB	eC	2	3	9,9,10	0.58	0	10,12,14	0.89	0
3	FUB	eC	3	3	9,9,10	0.58	0	10,12,14	0.90	0
14	FUB	eD	1	14	9,9,10	0.56	0	10,12,14	0.90	0
14	FUB	eD	2	14	9,9,10	0.58	0	10,12,14	0.84	0
14	GZL	eD	3	14	11,11,12	6.70	7 (63%)	14,15,17	1.76	2 (14%)
14	FUB	eD	4	14	9,9,10	0.59	0	10,12,14	1.01	1 (10%)
22	FUB	eE	1	22	9,9,10	0.61	0	10,12,14	1.17	1 (10%)
22	FUB	eE	2	22	9,9,10	0.57	0	10,12,14	0.91	0
22	GZL	eE	3	22	11,11,12	6.74	6 (54%)	14,15,17	1.57	1 (7%)
22	AHR	eE	4	22	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
22	AHR	eE	5	22	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
22	AHR	eE	6	22	9,9,10	0.59	0	10,12,14	1.19	1 (10%)
7	FUB	f	1	7	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
7	FUB	f	2	7	9,9,10	0.55	0	10,12,14	1.04	1 (10%)
7	FUB	f	3	7	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
7	AHR	f	4	7	9,9,10	0.53	0	10,12,14	0.80	0
7	FUB	fA	1	7	9,9,10	0.57	0	10,12,14	0.99	0
7	FUB	fA	2	7	9,9,10	0.58	0	10,12,14	0.92	0
7	FUB	fA	3	7	9,9,10	0.58	0	10,12,14	0.96	0
7	AHR	fA	4	7	9,9,10	0.57	0	10,12,14	0.98	0
15	FUB	fB	1	15	9,9,10	0.57	0	10,12,14	1.01	0
15	FUB	fB	2	15	9,9,10	0.58	0	10,12,14	0.88	0
15	GZL	fB	3	15	11,11,12	6.74	7 (63%)	14,15,17	1.31	1 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	AHR	fB	4	15	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
15	AHR	fB	5	15	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
12	FUB	fC	1	12	9,9,10	0.59	0	10,12,14	0.93	0
12	FUB	fC	2	12	9,9,10	0.56	0	10,12,14	0.87	0
12	GZL	fC	3	12	11,11,12	6.75	7 (63%)	14,15,17	1.31	1 (7%)
12	AHR	fC	4	12	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
12	AHR	fC	5	12	9,9,10	0.59	0	10,12,14	1.03	1 (10%)
12	FUB	fD	1	12	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
12	FUB	fD	2	12	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
12	GZL	fD	3	12	11,11,12	6.70	7 (63%)	14,15,17	1.25	1 (7%)
12	AHR	fD	4	12	9,9,10	0.56	0	10,12,14	0.91	0
12	AHR	fD	5	12	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
18	FUB	fE	1	18	9,9,10	0.54	0	10,12,14	1.14	1 (10%)
18	FUB	fE	2	18	9,9,10	0.54	0	10,12,14	0.93	0
18	GZL	fE	3	18	11,11,12	6.73	7 (63%)	14,15,17	1.34	1 (7%)
18	AHR	fE	4	18	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
18	AHR	fE	5	18	9,9,10	0.58	0	10,12,14	0.85	0
4	FUB	g	1	4	9,9,10	0.56	0	10,12,14	1.03	0
4	FUB	g	2	4	9,9,10	0.58	0	10,12,14	0.89	0
4	FUB	g	3	4	9,9,10	0.57	0	10,12,14	0.90	0
4	AHR	g	4	4	9,9,10	0.58	0	10,12,14	1.06	1 (10%)
11	FUB	gA	1	11	9,9,10	0.66	0	10,12,14	1.36	1 (10%)
11	AHR	gA	2	11	9,9,10	0.57	0	10,12,14	0.94	0
11	AHR	gA	3	11	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
6	FUB	gB	1	6	9,9,10	0.57	0	10,12,14	0.85	0
6	FUB	gB	2	6	9,9,10	0.56	0	10,12,14	0.90	0
6	GZL	gB	3	6	11,11,12	6.71	7 (63%)	14,15,17	1.54	2 (14%)
13	FUB	gC	1	13	9,9,10	0.58	0	10,12,14	0.85	0
13	FUB	gC	2	13	9,9,10	0.59	0	10,12,14	1.01	0
13	GZL	gC	3	13	11,11,12	6.75	7 (63%)	14,15,17	1.28	1 (7%)
13	AHR	gC	4	13	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
4	FUB	gD	1	4	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
4	FUB	gD	2	4	9,9,10	0.56	0	10,12,14	0.99	1 (10%)
4	FUB	gD	3	4	9,9,10	0.57	0	10,12,14	0.78	0
4	AHR	gD	4	4	9,9,10	0.57	0	10,12,14	0.79	0
20	FUB	gE	1	20	9,9,10	0.56	0	10,12,14	0.95	0
20	FUB	gE	2	20	9,9,10	0.59	0	10,12,14	1.03	1 (10%)
20	GZL	gE	3	20	11,11,12	6.74	7 (63%)	14,15,17	1.28	1 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
20	AHR	gE	4	20	9,9,10	0.58	0	10,12,14	0.87	0
7	FUB	h	1	7	9,9,10	0.56	0	10,12,14	1.01	0
7	FUB	h	2	7	9,9,10	0.59	0	10,12,14	0.97	0
7	FUB	h	3	7	9,9,10	0.57	0	10,12,14	1.00	0
7	AHR	h	4	7	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
9	FUB	hA	1	9	9,9,10	0.54	0	10,12,14	0.87	1 (10%)
9	FUB	hA	2	9	9,9,10	0.55	0	10,12,14	0.78	0
3	FUB	hB	1	3	9,9,10	0.58	0	10,12,14	0.81	0
3	FUB	hB	2	3	9,9,10	0.58	0	10,12,14	0.85	0
3	FUB	hB	3	3	9,9,10	0.59	0	10,12,14	0.94	0
14	FUB	hC	1	14	9,9,10	0.56	0	10,12,14	1.04	1 (10%)
14	FUB	hC	2	14	9,9,10	0.57	0	10,12,14	0.87	0
14	GZL	hC	3	14	11,11,12	6.72	7 (63%)	14,15,17	1.67	2 (14%)
14	FUB	hC	4	14	9,9,10	0.59	0	10,12,14	0.85	0
14	FUB	hD	1	14	9,9,10	0.57	0	10,12,14	0.98	1 (10%)
14	FUB	hD	2	14	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
14	GZL	hD	3	14	11,11,12	6.61	7 (63%)	14,15,17	1.61	2 (14%)
14	FUB	hD	4	14	9,9,10	0.57	0	10,12,14	0.94	0
20	FUB	hE	1	20	9,9,10	0.57	0	10,12,14	0.96	0
20	FUB	hE	2	20	9,9,10	0.56	0	10,12,14	0.83	0
20	GZL	hE	3	20	11,11,12	6.72	7 (63%)	14,15,17	1.44	1 (7%)
20	AHR	hE	4	20	9,9,10	0.56	0	10,12,14	0.88	0
11	FUB	i	1	11	9,9,10	0.65	0	10,12,14	1.31	1 (10%)
11	AHR	i	2	11	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
11	AHR	i	3	11	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
4	FUB	iA	1	4	9,9,10	0.56	0	10,12,14	1.11	1 (10%)
4	FUB	iA	2	4	9,9,10	0.57	0	10,12,14	0.97	0
4	FUB	iA	3	4	9,9,10	0.56	0	10,12,14	0.87	0
4	AHR	iA	4	4	9,9,10	0.57	0	10,12,14	1.18	1 (10%)
12	FUB	iB	1	12	9,9,10	0.60	0	10,12,14	0.94	0
12	FUB	iB	2	12	9,9,10	0.59	0	10,12,14	1.01	0
12	GZL	iB	3	12	11,11,12	6.71	7 (63%)	14,15,17	1.53	2 (14%)
12	AHR	iB	4	12	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
12	AHR	iB	5	12	9,9,10	0.60	0	10,12,14	0.97	0
12	FUB	iC	1	12	9,9,10	0.57	0	10,12,14	1.12	1 (10%)
12	FUB	iC	2	12	9,9,10	0.58	0	10,12,14	0.99	1 (10%)
12	GZL	iC	3	12	11,11,12	6.68	7 (63%)	14,15,17	1.43	1 (7%)
12	AHR	iC	4	12	9,9,10	0.57	0	10,12,14	1.02	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
12	AHR	iC	5	12	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
3	FUB	iD	1	3	9,9,10	0.57	0	10,12,14	0.98	1 (10%)
3	FUB	iD	2	3	9,9,10	0.55	0	10,12,14	0.79	0
3	FUB	iD	3	3	9,9,10	0.57	0	10,12,14	0.92	0
22	FUB	iE	1	22	9,9,10	0.55	0	10,12,14	1.17	1 (10%)
22	FUB	iE	2	22	9,9,10	0.55	0	10,12,14	0.89	0
22	GZL	iE	3	22	11,11,12	6.75	7 (63%)	14,15,17	1.33	1 (7%)
22	AHR	iE	4	22	9,9,10	0.60	0	10,12,14	0.99	0
22	AHR	iE	5	22	9,9,10	0.56	0	10,12,14	0.64	0
22	AHR	iE	6	22	9,9,10	0.57	0	10,12,14	1.14	1 (10%)
9	FUB	j	1	9	9,9,10	0.57	0	10,12,14	1.02	1 (10%)
9	FUB	j	2	9	9,9,10	0.56	0	10,12,14	0.78	0
3	FUB	jA	1	3	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
3	FUB	jA	2	3	9,9,10	0.58	0	10,12,14	0.90	0
3	FUB	jA	3	3	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
13	FUB	jB	1	13	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
13	FUB	jB	2	13	9,9,10	0.56	0	10,12,14	0.89	0
13	GZL	jB	3	13	11,11,12	6.75	7 (63%)	14,15,17	1.33	1 (7%)
13	AHR	jB	4	13	9,9,10	0.59	0	10,12,14	0.98	0
4	FUB	jC	1	4	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
4	FUB	jC	2	4	9,9,10	0.58	0	10,12,14	0.97	0
4	FUB	jC	3	4	9,9,10	0.57	0	10,12,14	0.99	0
4	AHR	jC	4	4	9,9,10	0.57	0	10,12,14	0.93	0
10	FUB	jD	1	10	9,9,10	0.55	0	10,12,14	1.20	1 (10%)
10	FUB	jD	2	10	9,9,10	0.59	0	10,12,14	0.98	0
10	FUB	jD	3	10	9,9,10	0.58	0	10,12,14	0.92	0
10	AHR	jD	4	10	9,9,10	0.58	0	10,12,14	0.96	0
10	AHR	jD	5	10	9,9,10	0.57	0	10,12,14	1.05	1 (10%)
20	FUB	jE	1	20	9,9,10	0.59	0	10,12,14	1.01	0
20	FUB	jE	2	20	9,9,10	0.57	0	10,12,14	0.91	0
20	GZL	jE	3	20	11,11,12	6.72	7 (63%)	14,15,17	1.58	2 (14%)
20	AHR	jE	4	20	9,9,10	0.57	0	10,12,14	0.89	0
4	FUB	k	1	4	9,9,10	0.58	0	10,12,14	0.83	0
4	FUB	k	2	4	9,9,10	0.58	0	10,12,14	0.96	0
4	FUB	k	3	4	9,9,10	0.55	0	10,12,14	0.94	0
4	AHR	k	4	4	9,9,10	0.58	0	10,12,14	0.96	0
3	FUB	kA	1	3	9,9,10	0.53	0	10,12,14	0.77	0
3	FUB	kA	2	3	9,9,10	0.55	0	10,12,14	0.80	0
3	FUB	kA	3	3	9,9,10	0.58	0	10,12,14	0.87	0
14	FUB	kB	1	14	9,9,10	0.59	0	10,12,14	0.90	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
14	FUB	kB	2	14	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
14	GZL	kB	3	14	11,11,12	6.65	7 (63%)	14,15,17	1.63	3 (21%)
14	FUB	kB	4	14	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
14	FUB	kC	1	14	9,9,10	0.57	0	10,12,14	0.97	1 (10%)
14	FUB	kC	2	14	9,9,10	0.58	0	10,12,14	0.99	0
14	GZL	kC	3	14	11,11,12	6.66	7 (63%)	14,15,17	1.91	2 (14%)
14	FUB	kC	4	14	9,9,10	0.60	0	10,12,14	0.85	0
4	FUB	kD	1	4	9,9,10	0.60	0	10,12,14	0.96	0
4	FUB	kD	2	4	9,9,10	0.58	0	10,12,14	0.85	0
4	FUB	kD	3	4	9,9,10	0.56	0	10,12,14	0.90	0
4	AHR	kD	4	4	9,9,10	0.57	0	10,12,14	0.93	0
21	FUB	kE	1	21	9,9,10	0.55	0	10,12,14	1.16	2 (20%)
21	FUB	kE	2	21	9,9,10	0.56	0	10,12,14	1.01	1 (10%)
21	GZL	kE	3	21	11,11,12	6.75	7 (63%)	14,15,17	1.24	1 (7%)
21	AHR	kE	4	21	9,9,10	0.58	0	10,12,14	0.98	0
21	AHR	kE	5	21	9,9,10	0.56	0	10,12,14	1.10	1 (10%)
3	FUB	l	1	3	9,9,10	0.58	0	10,12,14	0.92	0
3	FUB	l	2	3	9,9,10	0.53	0	10,12,14	0.82	0
3	FUB	l	3	3	9,9,10	0.57	0	10,12,14	0.88	0
12	FUB	lA	1	12	9,9,10	0.55	0	10,12,14	0.92	0
12	FUB	lA	2	12	9,9,10	0.58	0	10,12,14	0.94	0
12	GZL	lA	3	12	11,11,12	6.73	7 (63%)	14,15,17	1.24	1 (7%)
12	AHR	lA	4	12	9,9,10	0.57	0	10,12,14	1.12	1 (10%)
12	AHR	lA	5	12	9,9,10	0.58	0	10,12,14	1.12	1 (10%)
12	FUB	lB	1	12	9,9,10	0.54	0	10,12,14	1.16	1 (10%)
12	FUB	lB	2	12	9,9,10	0.57	0	10,12,14	0.94	0
12	GZL	lB	3	12	11,11,12	6.71	7 (63%)	14,15,17	1.36	1 (7%)
12	AHR	lB	4	12	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
12	AHR	lB	5	12	9,9,10	0.58	0	10,12,14	0.97	0
3	FUB	lC	1	3	9,9,10	0.57	0	10,12,14	0.81	0
3	FUB	lC	2	3	9,9,10	0.56	0	10,12,14	0.87	0
3	FUB	lC	3	3	9,9,10	0.58	0	10,12,14	1.01	0
3	FUB	lD	1	3	9,9,10	0.59	0	10,12,14	0.87	0
3	FUB	lD	2	3	9,9,10	0.56	0	10,12,14	0.95	0
3	FUB	lD	3	3	9,9,10	0.59	0	10,12,14	0.86	0
24	FUB	lE	1	24	9,9,10	0.54	0	10,12,14	1.33	1 (10%)
24	FUB	lE	2	24	9,9,10	0.55	0	10,12,14	1.04	1 (10%)
24	GZL	lE	3	24	11,11,12	6.71	7 (63%)	14,15,17	1.48	1 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	AHR	lE	4	24	9,9,10	0.59	0	10,12,14	1.15	2 (20%)
24	AHR	lE	5	24	9,9,10	0.55	0	10,12,14	1.10	1 (10%)
24	AHR	lE	6	24	9,9,10	0.57	0	10,12,14	1.13	1 (10%)
3	FUB	m	1	3	9,9,10	0.53	0	10,12,14	0.88	0
3	FUB	m	2	3	9,9,10	0.57	0	10,12,14	0.79	0
3	FUB	m	3	3	9,9,10	0.57	0	10,12,14	0.88	0
13	FUB	mA	1	13	9,9,10	0.56	0	10,12,14	0.83	0
13	FUB	mA	2	13	9,9,10	0.60	0	10,12,14	0.88	0
13	GZL	mA	3	13	11,11,12	6.76	7 (63%)	14,15,17	1.28	1 (7%)
13	AHR	mA	4	13	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
4	FUB	mB	1	4	9,9,10	0.55	0	10,12,14	1.00	1 (10%)
4	FUB	mB	2	4	9,9,10	0.56	0	10,12,14	0.94	0
4	FUB	mB	3	4	9,9,10	0.57	0	10,12,14	1.02	0
4	AHR	mB	4	4	9,9,10	0.58	0	10,12,14	0.95	1 (10%)
10	FUB	mC	1	10	9,9,10	0.57	0	10,12,14	1.13	1 (10%)
10	FUB	mC	2	10	9,9,10	0.58	0	10,12,14	0.99	0
10	FUB	mC	3	10	9,9,10	0.57	0	10,12,14	0.82	0
10	AHR	mC	4	10	9,9,10	0.57	0	10,12,14	1.03	1 (10%)
10	AHR	mC	5	10	9,9,10	0.57	0	10,12,14	1.19	1 (10%)
3	FUB	mD	1	3	9,9,10	0.56	0	10,12,14	0.69	0
3	FUB	mD	2	3	9,9,10	0.58	0	10,12,14	0.99	0
3	FUB	mD	3	3	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
6	FUB	mE	1	6	9,9,10	0.58	0	10,12,14	0.98	0
6	FUB	mE	2	6	9,9,10	0.58	0	10,12,14	0.97	1 (10%)
6	GZL	mE	3	6	11,11,12	6.72	7 (63%)	14,15,17	1.70	2 (14%)
12	FUB	n	1	12	9,9,10	0.55	0	10,12,14	0.87	0
12	FUB	n	2	12	9,9,10	0.58	0	10,12,14	0.84	0
12	GZL	n	3	12	11,11,12	6.73	7 (63%)	14,15,17	1.29	1 (7%)
12	AHR	n	4	12	9,9,10	0.55	0	10,12,14	1.14	1 (10%)
12	AHR	n	5	12	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
14	FUB	nA	1	14	9,9,10	0.52	0	10,12,14	0.90	0
14	FUB	nA	2	14	9,9,10	0.59	0	10,12,14	0.86	0
14	GZL	nA	3	14	11,11,12	6.72	7 (63%)	14,15,17	1.90	4 (28%)
14	FUB	nA	4	14	9,9,10	0.59	0	10,12,14	1.07	0
14	FUB	nB	1	14	9,9,10	0.57	0	10,12,14	0.89	0
14	FUB	nB	2	14	9,9,10	0.58	0	10,12,14	1.01	1 (10%)
14	GZL	nB	3	14	11,11,12	6.67	7 (63%)	14,15,17	1.60	3 (21%)
14	FUB	nB	4	14	9,9,10	0.57	0	10,12,14	1.09	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	FUB	nC	1	4	9,9,10	0.56	0	10,12,14	1.04	1 (10%)
4	FUB	nC	2	4	9,9,10	0.57	0	10,12,14	0.99	0
4	FUB	nC	3	4	9,9,10	0.58	0	10,12,14	0.97	0
4	AHR	nC	4	4	9,9,10	0.58	0	10,12,14	1.02	1 (10%)
3	FUB	nD	1	3	9,9,10	0.60	0	10,12,14	1.00	0
3	FUB	nD	2	3	9,9,10	0.58	0	10,12,14	0.95	0
3	FUB	nD	3	3	9,9,10	0.54	0	10,12,14	0.65	0
6	FUB	nE	1	6	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
6	FUB	nE	2	6	9,9,10	0.57	0	10,12,14	0.97	0
6	GZL	nE	3	6	11,11,12	6.69	7 (63%)	14,15,17	1.64	2 (14%)
13	FUB	o	1	13	9,9,10	0.57	0	10,12,14	0.77	0
13	FUB	o	2	13	9,9,10	0.58	0	10,12,14	0.85	0
13	GZL	o	3	13	11,11,12	6.76	7 (63%)	14,15,17	1.26	1 (7%)
13	AHR	o	4	13	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
12	FUB	oA	1	12	9,9,10	0.54	0	10,12,14	1.11	1 (10%)
12	FUB	oA	2	12	9,9,10	0.56	0	10,12,14	0.93	0
12	GZL	oA	3	12	11,11,12	6.75	7 (63%)	14,15,17	1.30	1 (7%)
12	AHR	oA	4	12	9,9,10	0.59	0	10,12,14	0.90	0
12	AHR	oA	5	12	9,9,10	0.59	0	10,12,14	1.04	1 (10%)
3	FUB	oB	1	3	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
3	FUB	oB	2	3	9,9,10	0.56	0	10,12,14	0.82	0
3	FUB	oB	3	3	9,9,10	0.57	0	10,12,14	1.04	1 (10%)
3	FUB	oC	1	3	9,9,10	0.60	0	10,12,14	0.91	0
3	FUB	oC	2	3	9,9,10	0.57	0	10,12,14	0.92	0
3	FUB	oC	3	3	9,9,10	0.59	0	10,12,14	0.87	0
3	FUB	oD	1	3	9,9,10	0.59	0	10,12,14	0.96	0
3	FUB	oD	2	3	9,9,10	0.57	0	10,12,14	0.87	0
3	FUB	oD	3	3	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
6	FUB	oE	1	6	9,9,10	0.57	0	10,12,14	0.86	0
6	FUB	oE	2	6	9,9,10	0.57	0	10,12,14	0.99	1 (10%)
6	GZL	oE	3	6	11,11,12	6.69	7 (63%)	14,15,17	1.67	2 (14%)
14	FUB	p	1	14	9,9,10	0.54	0	10,12,14	0.86	0
14	FUB	p	2	14	9,9,10	0.58	0	10,12,14	0.89	0
14	GZL	p	3	14	11,11,12	6.70	7 (63%)	14,15,17	1.69	4 (28%)
14	FUB	p	4	14	9,9,10	0.58	0	10,12,14	1.05	1 (10%)
4	FUB	pA	1	4	9,9,10	0.56	0	10,12,14	0.74	0
4	FUB	pA	2	4	9,9,10	0.57	0	10,12,14	0.84	0
4	FUB	pA	3	4	9,9,10	0.57	0	10,12,14	0.80	0
4	AHR	pA	4	4	9,9,10	0.56	0	10,12,14	0.92	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
10	FUB	pB	1	10	9,9,10	0.58	0	10,12,14	1.09	0
10	FUB	pB	2	10	9,9,10	0.58	0	10,12,14	1.05	0
10	FUB	pB	3	10	9,9,10	0.57	0	10,12,14	0.84	0
10	AHR	pB	4	10	9,9,10	0.58	0	10,12,14	1.06	1 (10%)
10	AHR	pB	5	10	9,9,10	0.58	0	10,12,14	1.17	1 (10%)
3	FUB	pC	1	3	9,9,10	0.58	0	10,12,14	1.07	1 (10%)
3	FUB	pC	2	3	9,9,10	0.58	0	10,12,14	1.02	1 (10%)
3	FUB	pC	3	3	9,9,10	0.58	0	10,12,14	0.90	0
3	FUB	pD	1	3	9,9,10	0.59	0	10,12,14	1.09	1 (10%)
3	FUB	pD	2	3	9,9,10	0.56	0	10,12,14	0.98	0
3	FUB	pD	3	3	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
18	FUB	pE	1	18	9,9,10	0.55	0	10,12,14	2.39	5 (50%)
18	FUB	pE	2	18	9,9,10	0.57	0	10,12,14	1.00	1 (10%)
18	GZL	pE	3	18	11,11,12	6.71	7 (63%)	14,15,17	1.53	2 (14%)
18	AHR	pE	4	18	9,9,10	0.59	0	10,12,14	1.05	1 (10%)
18	AHR	pE	5	18	9,9,10	0.61	0	10,12,14	1.20	1 (10%)
12	FUB	q	1	12	9,9,10	0.56	0	10,12,14	1.02	1 (10%)
12	FUB	q	2	12	9,9,10	0.57	0	10,12,14	0.94	0
12	GZL	q	3	12	11,11,12	6.72	7 (63%)	14,15,17	1.35	1 (7%)
12	AHR	q	4	12	9,9,10	0.58	0	10,12,14	0.97	1 (10%)
12	AHR	q	5	12	9,9,10	0.55	0	10,12,14	1.04	1 (10%)
14	FUB	qA	1	14	9,9,10	0.59	0	10,12,14	0.75	0
14	FUB	qA	2	14	9,9,10	0.59	0	10,12,14	0.90	0
14	GZL	qA	3	14	11,11,12	6.73	7 (63%)	14,15,17	1.72	2 (14%)
14	FUB	qA	4	14	9,9,10	0.58	0	10,12,14	1.02	0
4	FUB	qB	1	4	9,9,10	0.59	0	10,12,14	1.05	1 (10%)
4	FUB	qB	2	4	9,9,10	0.58	0	10,12,14	1.00	1 (10%)
4	FUB	qB	3	4	9,9,10	0.58	0	10,12,14	0.99	0
4	AHR	qB	4	4	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
3	FUB	qC	1	3	9,9,10	0.57	0	10,12,14	0.98	0
3	FUB	qC	2	3	9,9,10	0.56	0	10,12,14	0.81	0
3	FUB	qC	3	3	9,9,10	0.54	0	10,12,14	0.63	0
3	FUB	qD	1	3	9,9,10	0.58	0	10,12,14	0.89	0
3	FUB	qD	2	3	9,9,10	0.58	0	10,12,14	0.93	0
3	FUB	qD	3	3	9,9,10	0.56	0	10,12,14	0.93	0
19	FUB	qE	1	19	9,9,10	0.57	0	10,12,14	1.27	1 (10%)
19	FUB	qE	2	19	9,9,10	0.58	0	10,12,14	0.88	0
19	GZL	qE	3	19	11,11,12	6.73	7 (63%)	14,15,17	1.54	2 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	AHR	qE	4	19	9,9,10	0.59	0	10,12,14	0.80	0
4	FUB	r	1	4	9,9,10	0.55	0	10,12,14	0.78	0
4	FUB	r	2	4	9,9,10	0.57	0	10,12,14	0.87	0
4	FUB	r	3	4	9,9,10	0.57	0	10,12,14	0.90	0
4	AHR	r	4	4	9,9,10	0.58	0	10,12,14	0.83	0
3	FUB	rA	1	3	9,9,10	0.54	0	10,12,14	0.80	0
3	FUB	rA	2	3	9,9,10	0.55	0	10,12,14	0.81	0
3	FUB	rA	3	3	9,9,10	0.59	0	10,12,14	0.92	0
3	FUB	rB	1	3	9,9,10	0.56	0	10,12,14	0.95	1 (10%)
3	FUB	rB	2	3	9,9,10	0.57	0	10,12,14	0.83	0
3	FUB	rB	3	3	9,9,10	0.56	0	10,12,14	0.98	0
3	FUB	rC	1	3	9,9,10	0.57	0	10,12,14	1.06	1 (10%)
3	FUB	rC	2	3	9,9,10	0.57	0	10,12,14	0.92	0
3	FUB	rC	3	3	9,9,10	0.59	0	10,12,14	0.99	0
3	FUB	rD	1	3	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
3	FUB	rD	2	3	9,9,10	0.58	0	10,12,14	0.89	0
3	FUB	rD	3	3	9,9,10	0.57	0	10,12,14	0.97	0
18	FUB	rE	1	18	9,9,10	0.61	0	10,12,14	1.03	0
18	FUB	rE	2	18	9,9,10	0.57	0	10,12,14	1.10	1 (10%)
18	GZL	rE	3	18	11,11,12	6.76	7 (63%)	14,15,17	1.46	2 (14%)
18	AHR	rE	4	18	9,9,10	0.55	0	10,12,14	0.77	0
18	AHR	rE	5	18	9,9,10	0.58	0	10,12,14	1.16	1 (10%)
14	FUB	s	1	14	9,9,10	0.55	0	10,12,14	0.86	0
14	FUB	s	2	14	9,9,10	0.59	0	10,12,14	0.94	0
14	GZL	s	3	14	11,11,12	6.70	7 (63%)	14,15,17	1.98	3 (21%)
14	FUB	s	4	14	9,9,10	0.60	0	10,12,14	0.88	0
10	FUB	sA	1	10	9,9,10	0.57	0	10,12,14	1.05	0
10	FUB	sA	2	10	9,9,10	0.57	0	10,12,14	0.85	0
10	FUB	sA	3	10	9,9,10	0.55	0	10,12,14	0.79	0
10	AHR	sA	4	10	9,9,10	0.58	0	10,12,14	1.13	1 (10%)
10	AHR	sA	5	10	9,9,10	0.57	0	10,12,14	1.16	1 (10%)
3	FUB	sB	1	3	9,9,10	0.60	0	10,12,14	0.93	0
3	FUB	sB	2	3	9,9,10	0.57	0	10,12,14	1.05	0
3	FUB	sB	3	3	9,9,10	0.58	0	10,12,14	0.83	0
3	FUB	sC	1	3	9,9,10	0.54	0	10,12,14	1.07	1 (10%)
3	FUB	sC	2	3	9,9,10	0.58	0	10,12,14	0.86	0
3	FUB	sC	3	3	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
10	FUB	sD	1	10	9,9,10	0.56	0	10,12,14	1.07	1 (10%)
10	FUB	sD	2	10	9,9,10	0.57	0	10,12,14	0.82	0
10	FUB	sD	3	10	9,9,10	0.58	0	10,12,14	1.00	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
10	AHR	sD	4	10	9,9,10	0.57	0	10,12,14	0.90	0
10	AHR	sD	5	10	9,9,10	0.58	0	10,12,14	0.80	0
20	FUB	sE	1	20	9,9,10	0.56	0	10,12,14	1.05	1 (10%)
20	FUB	sE	2	20	9,9,10	0.57	0	10,12,14	1.00	0
20	GZL	sE	3	20	11,11,12	6.73	7 (63%)	14,15,17	1.59	2 (14%)
20	AHR	sE	4	20	9,9,10	0.58	0	10,12,14	1.04	1 (10%)
3	FUB	t	1	3	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
3	FUB	t	2	3	9,9,10	0.56	0	10,12,14	0.77	0
3	FUB	t	3	3	9,9,10	0.57	0	10,12,14	0.97	0
4	FUB	tA	1	4	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
4	FUB	tA	2	4	9,9,10	0.57	0	10,12,14	0.81	0
4	FUB	tA	3	4	9,9,10	0.56	0	10,12,14	0.79	0
4	AHR	tA	4	4	9,9,10	0.56	0	10,12,14	1.15	1 (10%)
3	FUB	tB	1	3	9,9,10	0.59	0	10,12,14	0.81	0
3	FUB	tB	2	3	9,9,10	0.56	0	10,12,14	0.84	0
3	FUB	tB	3	3	9,9,10	0.55	0	10,12,14	0.72	0
3	FUB	tC	1	3	9,9,10	0.59	0	10,12,14	1.01	0
3	FUB	tC	2	3	9,9,10	0.59	0	10,12,14	0.93	0
3	FUB	tC	3	3	9,9,10	0.59	0	10,12,14	1.08	1 (10%)
13	FUB	tD	1	13	9,9,10	0.57	0	10,12,14	1.06	0
13	FUB	tD	2	13	9,9,10	0.56	0	10,12,14	1.14	1 (10%)
13	GZL	tD	3	13	11,11,12	6.79	6 (54%)	14,15,17	1.14	2 (14%)
13	AHR	tD	4	13	9,9,10	0.59	0	10,12,14	1.18	1 (10%)
18	FUB	tE	1	18	9,9,10	0.54	0	10,12,14	0.93	1 (10%)
18	FUB	tE	2	18	9,9,10	0.53	0	10,12,14	0.76	0
18	GZL	tE	3	18	11,11,12	6.71	7 (63%)	14,15,17	1.59	2 (14%)
18	AHR	tE	4	18	9,9,10	0.59	0	10,12,14	1.04	1 (10%)
18	AHR	tE	5	18	9,9,10	0.59	0	10,12,14	0.98	0
10	FUB	u	1	10	9,9,10	0.57	0	10,12,14	1.09	1 (10%)
10	FUB	u	2	10	9,9,10	0.58	0	10,12,14	0.88	0
10	FUB	u	3	10	9,9,10	0.56	0	10,12,14	0.93	0
10	AHR	u	4	10	9,9,10	0.59	0	10,12,14	0.98	0
10	AHR	u	5	10	9,9,10	0.56	0	10,12,14	1.18	1 (10%)
3	FUB	uA	1	3	9,9,10	0.55	0	10,12,14	0.81	0
3	FUB	uA	2	3	9,9,10	0.58	0	10,12,14	0.82	0
3	FUB	uA	3	3	9,9,10	0.55	0	10,12,14	1.09	1 (10%)
3	FUB	uB	1	3	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
3	FUB	uB	2	3	9,9,10	0.58	0	10,12,14	0.86	0
3	FUB	uB	3	3	9,9,10	0.58	0	10,12,14	0.89	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	uC	1	3	9,9,10	0.55	0	10,12,14	0.92	0
3	FUB	uC	2	3	9,9,10	0.57	0	10,12,14	0.97	0
3	FUB	uC	3	3	9,9,10	0.58	0	10,12,14	1.01	1 (10%)
6	FUB	uD	1	6	9,9,10	0.57	0	10,12,14	1.07	1 (10%)
6	FUB	uD	2	6	9,9,10	0.60	0	10,12,14	1.03	0
6	GZL	uD	3	6	11,11,12	7.02	6 (54%)	14,15,17	3.92	4 (28%)
20	FUB	uE	1	20	9,9,10	0.54	0	10,12,14	0.95	1 (10%)
20	FUB	uE	2	20	9,9,10	0.52	0	10,12,14	0.93	0
20	GZL	uE	3	20	11,11,12	6.71	7 (63%)	14,15,17	1.52	2 (14%)
20	AHR	uE	4	20	9,9,10	0.59	0	10,12,14	0.84	0
4	FUB	v	1	4	9,9,10	0.57	0	10,12,14	1.08	1 (10%)
4	FUB	v	2	4	9,9,10	0.56	0	10,12,14	0.88	0
4	FUB	v	3	4	9,9,10	0.56	0	10,12,14	0.90	0
4	AHR	v	4	4	9,9,10	0.58	0	10,12,14	1.01	0
3	FUB	vA	1	3	9,9,10	0.58	0	10,12,14	0.80	0
3	FUB	vA	2	3	9,9,10	0.57	0	10,12,14	0.88	0
3	FUB	vA	3	3	9,9,10	0.57	0	10,12,14	1.09	1 (10%)
3	FUB	vB	1	3	9,9,10	0.55	0	10,12,14	1.13	1 (10%)
3	FUB	vB	2	3	9,9,10	0.58	0	10,12,14	0.85	0
3	FUB	vB	3	3	9,9,10	0.59	0	10,12,14	0.90	0
10	FUB	vC	1	10	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
10	FUB	vC	2	10	9,9,10	0.56	0	10,12,14	0.80	0
10	FUB	vC	3	10	9,9,10	0.58	0	10,12,14	0.99	1 (10%)
10	AHR	vC	4	10	9,9,10	0.61	0	10,12,14	0.87	0
10	AHR	vC	5	10	9,9,10	0.57	0	10,12,14	0.93	1 (10%)
13	FUB	vD	1	13	9,9,10	0.55	0	10,12,14	0.95	0
13	FUB	vD	2	13	9,9,10	0.58	0	10,12,14	0.94	0
13	GZL	vD	3	13	11,11,12	6.70	7 (63%)	14,15,17	1.54	2 (14%)
13	AHR	vD	4	13	9,9,10	0.57	0	10,12,14	1.13	1 (10%)
21	FUB	vE	1	21	9,9,10	0.53	0	10,12,14	1.01	1 (10%)
21	FUB	vE	2	21	9,9,10	0.56	0	10,12,14	0.82	0
21	GZL	vE	3	21	11,11,12	6.74	7 (63%)	14,15,17	1.37	1 (7%)
21	AHR	vE	4	21	9,9,10	0.58	0	10,12,14	1.00	0
21	AHR	vE	5	21	9,9,10	0.57	0	10,12,14	0.68	0
3	FUB	w	1	3	9,9,10	0.58	0	10,12,14	0.84	0
3	FUB	w	2	3	9,9,10	0.58	0	10,12,14	0.93	0
3	FUB	w	3	3	9,9,10	0.55	0	10,12,14	1.03	1 (10%)
3	FUB	wA	1	3	9,9,10	0.57	0	10,12,14	0.72	0
3	FUB	wA	2	3	9,9,10	0.57	0	10,12,14	0.81	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	wA	3	3	9,9,10	0.55	0	10,12,14	0.87	1 (10%)
3	FUB	wB	1	3	9,9,10	0.56	0	10,12,14	0.84	0
3	FUB	wB	2	3	9,9,10	0.56	0	10,12,14	0.84	0
3	FUB	wB	3	3	9,9,10	0.59	0	10,12,14	0.85	0
13	FUB	wC	1	13	9,9,10	0.56	0	10,12,14	0.97	0
13	FUB	wC	2	13	9,9,10	0.54	0	10,12,14	1.09	1 (10%)
13	GZL	wC	3	13	11,11,12	6.84	7 (63%)	14,15,17	1.25	2 (14%)
13	AHR	wC	4	13	9,9,10	0.60	0	10,12,14	1.19	1 (10%)
13	FUB	wD	1	13	9,9,10	0.56	0	10,12,14	0.99	1 (10%)
13	FUB	wD	2	13	9,9,10	0.57	0	10,12,14	0.81	0
13	GZL	wD	3	13	11,11,12	6.72	7 (63%)	14,15,17	1.55	3 (21%)
13	AHR	wD	4	13	9,9,10	0.56	0	10,12,14	1.06	1 (10%)
22	FUB	wE	1	22	9,9,10	0.59	0	10,12,14	1.05	0
22	FUB	wE	2	22	9,9,10	0.58	0	10,12,14	0.92	0
22	GZL	wE	3	22	11,11,12	6.75	7 (63%)	14,15,17	1.40	1 (7%)
22	AHR	wE	4	22	9,9,10	0.56	0	10,12,14	0.94	0
22	AHR	wE	5	22	9,9,10	0.59	0	10,12,14	1.53	3 (30%)
22	AHR	wE	6	22	9,9,10	0.55	0	10,12,14	0.75	0
3	FUB	x	1	3	9,9,10	0.57	0	10,12,14	0.76	0
3	FUB	x	2	3	9,9,10	0.59	0	10,12,14	0.98	1 (10%)
3	FUB	x	3	3	9,9,10	0.57	0	10,12,14	1.01	1 (10%)
3	FUB	xA	1	3	9,9,10	0.60	0	10,12,14	0.87	0
3	FUB	xA	2	3	9,9,10	0.58	0	10,12,14	0.89	0
3	FUB	xA	3	3	9,9,10	0.57	0	10,12,14	0.97	0
3	FUB	xB	1	3	9,9,10	0.55	0	10,12,14	1.07	1 (10%)
3	FUB	xB	2	3	9,9,10	0.55	0	10,12,14	0.79	0
3	FUB	xB	3	3	9,9,10	0.57	0	10,12,14	1.01	0
6	FUB	xC	1	6	9,9,10	0.55	0	10,12,14	1.09	1 (10%)
6	FUB	xC	2	6	9,9,10	0.59	0	10,12,14	1.05	1 (10%)
6	GZL	xC	3	6	11,11,12	7.01	6 (54%)	14,15,17	3.90	4 (28%)
6	FUB	xD	1	6	9,9,10	0.57	0	10,12,14	0.81	0
6	FUB	xD	2	6	9,9,10	0.58	0	10,12,14	1.21	2 (20%)
6	GZL	xD	3	6	11,11,12	6.65	7 (63%)	14,15,17	1.71	2 (14%)
20	FUB	xE	1	20	9,9,10	0.57	0	10,12,14	1.12	1 (10%)
20	FUB	xE	2	20	9,9,10	0.56	0	10,12,14	0.71	0
20	GZL	xE	3	20	11,11,12	6.69	7 (63%)	14,15,17	1.59	2 (14%)
20	AHR	xE	4	20	9,9,10	0.56	0	10,12,14	0.98	0
3	FUB	y	1	3	9,9,10	0.57	0	10,12,14	1.00	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FUB	y	2	3	9,9,10	0.58	0	10,12,14	0.91	0
3	FUB	y	3	3	9,9,10	0.54	0	10,12,14	0.86	0
3	FUB	yA	1	3	9,9,10	0.58	0	10,12,14	1.10	1 (10%)
3	FUB	yA	2	3	9,9,10	0.55	0	10,12,14	0.78	0
3	FUB	yA	3	3	9,9,10	0.58	0	10,12,14	0.86	0
10	FUB	yB	1	10	9,9,10	0.56	0	10,12,14	1.03	1 (10%)
10	FUB	yB	2	10	9,9,10	0.58	0	10,12,14	0.73	0
10	FUB	yB	3	10	9,9,10	0.59	0	10,12,14	1.09	0
10	AHR	yB	4	10	9,9,10	0.58	0	10,12,14	0.92	0
10	AHR	yB	5	10	9,9,10	0.57	0	10,12,14	0.79	0
13	FUB	yC	1	13	9,9,10	0.56	0	10,12,14	0.93	0
13	FUB	yC	2	13	9,9,10	0.56	0	10,12,14	1.00	1 (10%)
13	GZL	yC	3	13	11,11,12	6.70	7 (63%)	14,15,17	1.52	1 (7%)
13	AHR	yC	4	13	9,9,10	0.59	0	10,12,14	0.97	0
6	FUB	yD	1	6	9,9,10	0.54	0	10,12,14	0.91	1 (10%)
6	FUB	yD	2	6	9,9,10	0.56	0	10,12,14	1.08	1 (10%)
6	GZL	yD	3	6	11,11,12	6.74	7 (63%)	14,15,17	1.49	2 (14%)
18	FUB	yE	1	18	9,9,10	0.56	0	10,12,14	0.93	0
18	FUB	yE	2	18	9,9,10	0.52	0	10,12,14	0.91	0
18	GZL	yE	3	18	11,11,12	6.64	7 (63%)	14,15,17	1.79	3 (21%)
18	AHR	yE	4	18	9,9,10	0.57	0	10,12,14	1.11	1 (10%)
18	AHR	yE	5	18	9,9,10	0.56	0	10,12,14	1.13	1 (10%)
3	FUB	z	1	3	9,9,10	0.55	0	10,12,14	0.97	1 (10%)
3	FUB	z	2	3	9,9,10	0.56	0	10,12,14	0.90	0
3	FUB	z	3	3	9,9,10	0.57	0	10,12,14	0.84	0
3	FUB	zA	1	3	9,9,10	0.52	0	10,12,14	0.87	0
3	FUB	zA	2	3	9,9,10	0.59	0	10,12,14	0.87	0
3	FUB	zA	3	3	9,9,10	0.56	0	10,12,14	0.87	0
13	FUB	zB	1	13	9,9,10	0.54	0	10,12,14	1.03	1 (10%)
13	FUB	zB	2	13	9,9,10	0.54	0	10,12,14	1.06	1 (10%)
13	GZL	zB	3	13	11,11,12	6.77	7 (63%)	14,15,17	1.21	1 (7%)
13	AHR	zB	4	13	9,9,10	0.59	0	10,12,14	1.10	1 (10%)
13	FUB	zC	1	13	9,9,10	0.56	0	10,12,14	0.93	1 (10%)
13	FUB	zC	2	13	9,9,10	0.56	0	10,12,14	0.96	1 (10%)
13	GZL	zC	3	13	11,11,12	6.71	7 (63%)	14,15,17	1.53	3 (21%)
13	AHR	zC	4	13	9,9,10	0.57	0	10,12,14	0.99	0
6	FUB	zD	1	6	9,9,10	0.57	0	10,12,14	1.02	0
6	FUB	zD	2	6	9,9,10	0.57	0	10,12,14	1.00	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	GZL	zD	3	6	11,11,12	6.73	7 (63%)	14,15,17	1.51	2 (14%)
18	FUB	zE	1	18	9,9,10	0.60	0	10,12,14	1.04	0
18	FUB	zE	2	18	9,9,10	0.59	0	10,12,14	1.07	1 (10%)
18	GZL	zE	3	18	11,11,12	6.66	7 (63%)	14,15,17	1.75	3 (21%)
18	AHR	zE	4	18	9,9,10	0.58	0	10,12,14	0.80	0
18	AHR	zE	5	18	9,9,10	0.58	0	10,12,14	0.95	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	0	1	3	-	0/2/15/18	0/1/1/1
3	FUB	0	2	3	-	0/2/15/18	0/1/1/1
3	FUB	0	3	3	-	0/2/15/18	0/1/1/1
3	FUB	0A	1	3	-	0/2/15/18	0/1/1/1
3	FUB	0A	2	3	-	0/2/15/18	0/1/1/1
3	FUB	0A	3	3	-	0/2/15/18	0/1/1/1
6	FUB	0B	1	6	-	0/2/15/18	0/1/1/1
6	FUB	0B	2	6	-	0/2/15/18	0/1/1/1
6	GZL	0B	3	6	2/2/4/5	5/6/19/22	0/1/1/1
6	FUB	0C	1	6	-	0/2/15/18	0/1/1/1
6	FUB	0C	2	6	-	0/2/15/18	0/1/1/1
6	GZL	0C	3	6	-	2/6/19/22	0/1/1/1
13	FUB	0D	1	13	-	0/2/15/18	0/1/1/1
13	FUB	0D	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	0D	3	13	-	6/6/19/22	0/1/1/1
13	AHR	0D	4	13	-	0/2/15/18	0/1/1/1
18	FUB	0E	1	18	-	0/2/15/18	0/1/1/1
18	FUB	0E	2	18	-	0/2/15/18	0/1/1/1
18	GZL	0E	3	18	1/1/4/5	6/6/19/22	0/1/1/1
18	AHR	0E	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	0E	5	18	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	1	1	3	-	0/2/15/18	0/1/1/1
3	FUB	1	2	3	-	0/2/15/18	0/1/1/1
3	FUB	1	3	3	-	0/2/15/18	0/1/1/1
10	FUB	1A	1	10	-	0/2/15/18	0/1/1/1
10	FUB	1A	2	10	-	0/2/15/18	0/1/1/1
10	FUB	1A	3	10	-	0/2/15/18	0/1/1/1
10	AHR	1A	4	10	1/1/3/4	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
10	AHR	1A	5	10	-	0/2/15/18	0/1/1/1
13	FUB	1B	1	13	-	0/2/15/18	0/1/1/1
13	FUB	1B	2	13	-	0/2/15/18	0/1/1/1
13	GZL	1B	3	13	1/1/4/5	3/6/19/22	0/1/1/1
13	AHR	1B	4	13	-	0/2/15/18	0/1/1/1
6	FUB	1C	1	6	-	0/2/15/18	0/1/1/1
6	FUB	1C	2	6	-	0/2/15/18	0/1/1/1
6	GZL	1C	3	6	1/1/4/5	0/6/19/22	0/1/1/1
15	FUB	1D	1	15	-	0/2/15/18	0/1/1/1
15	FUB	1D	2	15	-	0/2/15/18	0/1/1/1
15	GZL	1D	3	15	1/1/4/5	4/6/19/22	0/1/1/1
15	AHR	1D	4	15	-	0/2/15/18	0/1/1/1
15	AHR	1D	5	15	1/1/3/4	0/2/15/18	0/1/1/1
19	FUB	1E	1	19	-	0/2/15/18	0/1/1/1
19	FUB	1E	2	19	-	0/2/15/18	0/1/1/1
19	GZL	1E	3	19	1/1/4/5	4/6/19/22	0/1/1/1
19	AHR	1E	4	19	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	2	1	3	-	0/2/15/18	0/1/1/1
3	FUB	2	2	3	-	0/2/15/18	0/1/1/1
3	FUB	2	3	3	-	0/2/15/18	0/1/1/1
13	FUB	2A	1	13	-	0/2/15/18	0/1/1/1
13	FUB	2A	2	13	-	0/2/15/18	0/1/1/1
13	GZL	2A	3	13	3/3/4/5	2/6/19/22	0/1/1/1
13	AHR	2A	4	13	-	0/2/15/18	0/1/1/1
13	FUB	2B	1	13	-	0/2/15/18	0/1/1/1
13	FUB	2B	2	13	-	0/2/15/18	0/1/1/1
13	GZL	2B	3	13	1/1/4/5	0/6/19/22	0/1/1/1
13	AHR	2B	4	13	-	0/2/15/18	0/1/1/1
6	FUB	2C	1	6	-	0/2/15/18	0/1/1/1
6	FUB	2C	2	6	1/1/3/4	0/2/15/18	0/1/1/1
6	GZL	2C	3	6	1/1/4/5	4/6/19/22	0/1/1/1
15	FUB	2D	1	15	-	0/2/15/18	0/1/1/1
15	FUB	2D	2	15	-	0/2/15/18	0/1/1/1
15	GZL	2D	3	15	1/1/4/5	2/6/19/22	0/1/1/1
15	AHR	2D	4	15	-	0/2/15/18	0/1/1/1
15	AHR	2D	5	15	-	0/2/15/18	0/1/1/1
10	FUB	3	1	10	-	0/2/15/18	0/1/1/1
10	FUB	3	2	10	-	0/2/15/18	0/1/1/1
10	FUB	3	3	10	-	0/2/15/18	0/1/1/1
10	AHR	3	4	10	1/1/3/4	0/2/15/18	0/1/1/1
10	AHR	3	5	10	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	FUB	3A	1	6	-	0/2/15/18	0/1/1/1
6	FUB	3A	2	6	-	0/2/15/18	0/1/1/1
6	GZL	3A	3	6	2/2/4/5	4/6/19/22	0/1/1/1
6	FUB	3B	1	6	-	0/2/15/18	0/1/1/1
6	FUB	3B	2	6	-	0/2/15/18	0/1/1/1
6	GZL	3B	3	6	-	2/6/19/22	0/1/1/1
13	FUB	3C	1	13	-	0/2/15/18	0/1/1/1
13	FUB	3C	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	3C	3	13	-	4/6/19/22	0/1/1/1
13	AHR	3C	4	13	-	0/2/15/18	0/1/1/1
6	FUB	3D	1	6	-	0/2/15/18	0/1/1/1
6	FUB	3D	2	6	-	0/2/15/18	0/1/1/1
6	GZL	3D	3	6	1/1/4/5	0/6/19/22	0/1/1/1
13	FUB	4	1	13	-	0/2/15/18	0/1/1/1
13	FUB	4	2	13	-	0/2/15/18	0/1/1/1
13	GZL	4	3	13	2/2/4/5	5/6/19/22	0/1/1/1
13	AHR	4	4	13	-	0/2/15/18	0/1/1/1
13	FUB	4A	1	13	-	0/2/15/18	0/1/1/1
13	FUB	4A	2	13	-	0/2/15/18	0/1/1/1
13	GZL	4A	3	13	1/1/4/5	0/6/19/22	0/1/1/1
13	AHR	4A	4	13	-	0/2/15/18	0/1/1/1
6	FUB	4B	1	6	-	0/2/15/18	0/1/1/1
6	FUB	4B	2	6	-	0/2/15/18	0/1/1/1
6	GZL	4B	3	6	1/1/4/5	4/6/19/22	0/1/1/1
15	FUB	4C	1	15	-	0/2/15/18	0/1/1/1
15	FUB	4C	2	15	-	0/2/15/18	0/1/1/1
15	GZL	4C	3	15	1/1/4/5	2/6/19/22	0/1/1/1
15	AHR	4C	4	15	-	0/2/15/18	0/1/1/1
15	AHR	4C	5	15	1/1/3/4	0/2/15/18	0/1/1/1
16	NAG	4D	1	16,1	-	4/6/23/26	0/1/1/1
16	NAG	4D	2	16	-	0/6/23/26	0/1/1/1
6	FUB	5	1	6	-	0/2/15/18	0/1/1/1
6	FUB	5	2	6	-	0/2/15/18	0/1/1/1
6	GZL	5	3	6	3/3/4/5	2/6/19/22	0/1/1/1
13	FUB	5A	1	13	-	0/2/15/18	0/1/1/1
13	FUB	5A	2	13	-	0/2/15/18	0/1/1/1
13	GZL	5A	3	13	1/1/4/5	2/6/19/22	0/1/1/1
13	AHR	5A	4	13	-	0/2/15/18	0/1/1/1
6	FUB	5B	1	6	-	0/2/15/18	0/1/1/1
6	FUB	5B	2	6	1/1/3/4	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	GZL	5B	3	6	1/1/4/5	6/6/19/22	0/1/1/1
15	FUB	5C	1	15	-	0/2/15/18	0/1/1/1
15	FUB	5C	2	15	-	0/2/15/18	0/1/1/1
15	GZL	5C	3	15	1/1/4/5	0/6/19/22	0/1/1/1
15	AHR	5C	4	15	-	0/2/15/18	0/1/1/1
15	AHR	5C	5	15	-	0/2/15/18	0/1/1/1
17	NAG	5D	1	17,1	-	1/6/23/26	0/1/1/1
17	NAG	5D	2	17	-	2/6/23/26	0/1/1/1
17	BMA	5D	3	17	-	2/2/19/22	0/1/1/1
17	MAN	5D	4	17	1/1/4/5	2/2/19/22	0/1/1/1
17	MAN	5D	5	17	-	0/2/19/22	0/1/1/1
17	MAN	5D	6	17	1/1/4/5	2/2/19/22	0/1/1/1
13	FUB	6	1	13	-	0/2/15/18	0/1/1/1
13	FUB	6	2	13	-	0/2/15/18	0/1/1/1
13	GZL	6	3	13	1/1/4/5	3/6/19/22	0/1/1/1
13	AHR	6	4	13	-	0/2/15/18	0/1/1/1
6	FUB	6A	1	6	-	0/2/15/18	0/1/1/1
6	FUB	6A	2	6	-	0/2/15/18	0/1/1/1
6	GZL	6A	3	6	-	2/6/19/22	0/1/1/1
13	FUB	6B	1	13	-	0/2/15/18	0/1/1/1
13	FUB	6B	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	6B	3	13	-	4/6/19/22	0/1/1/1
13	AHR	6B	4	13	-	0/2/15/18	0/1/1/1
6	FUB	6C	1	6	-	0/2/15/18	0/1/1/1
6	FUB	6C	2	6	-	0/2/15/18	0/1/1/1
6	GZL	6C	3	6	1/1/4/5	2/6/19/22	0/1/1/1
6	FUB	6D	1	6	-	0/2/15/18	0/1/1/1
6	FUB	6D	2	6	-	0/2/15/18	0/1/1/1
6	GZL	6D	3	6	1/1/4/5	4/6/19/22	0/1/1/1
13	FUB	7	1	13	-	0/2/15/18	0/1/1/1
13	FUB	7	2	13	-	0/2/15/18	0/1/1/1
13	GZL	7	3	13	1/1/4/5	0/6/19/22	0/1/1/1
13	AHR	7	4	13	-	0/2/15/18	0/1/1/1
6	FUB	7A	1	6	-	0/2/15/18	0/1/1/1
6	FUB	7A	2	6	-	0/2/15/18	0/1/1/1
6	GZL	7A	3	6	1/1/4/5	2/6/19/22	0/1/1/1
15	FUB	7B	1	15	-	0/2/15/18	0/1/1/1
15	FUB	7B	2	15	-	0/2/15/18	0/1/1/1
15	GZL	7B	3	15	1/1/4/5	6/6/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	AHR	7B	4	15	-	0/2/15/18	0/1/1/1
15	AHR	7B	5	15	1/1/3/4	0/2/15/18	0/1/1/1
17	NAG	7C	1	17,1	-	1/6/23/26	0/1/1/1
17	NAG	7C	2	17	-	0/6/23/26	0/1/1/1
17	BMA	7C	3	17	-	2/2/19/22	0/1/1/1
17	MAN	7C	4	17	1/1/4/5	2/2/19/22	0/1/1/1
17	MAN	7C	5	17	-	2/2/19/22	0/1/1/1
17	MAN	7C	6	17	1/1/4/5	1/2/19/22	0/1/1/1
6	FUB	7D	1	6	-	0/2/15/18	0/1/1/1
6	FUB	7D	2	6	-	0/2/15/18	0/1/1/1
6	GZL	7D	3	6	1/1/4/5	6/6/19/22	0/1/1/1
6	FUB	8	1	6	-	0/2/15/18	0/1/1/1
6	FUB	8	2	6	-	0/2/15/18	0/1/1/1
6	GZL	8	3	6	1/1/4/5	0/6/19/22	0/1/1/1
6	FUB	8A	1	6	-	0/2/15/18	0/1/1/1
6	FUB	8A	2	6	1/1/3/4	0/2/15/18	0/1/1/1
6	GZL	8A	3	6	1/1/4/5	4/6/19/22	0/1/1/1
15	FUB	8B	1	15	-	0/2/15/18	0/1/1/1
15	FUB	8B	2	15	-	0/2/15/18	0/1/1/1
15	GZL	8B	3	15	1/1/4/5	2/6/19/22	0/1/1/1
15	AHR	8B	4	15	-	0/2/15/18	0/1/1/1
15	AHR	8B	5	15	-	0/2/15/18	0/1/1/1
3	FUB	8C	1	3	-	0/2/15/18	0/1/1/1
3	FUB	8C	2	3	-	0/2/15/18	0/1/1/1
3	FUB	8C	3	3	-	0/2/15/18	0/1/1/1
6	FUB	8D	1	6	-	0/2/15/18	0/1/1/1
6	FUB	8D	2	6	-	0/2/15/18	0/1/1/1
6	GZL	8D	3	6	1/1/4/5	2/6/19/22	0/1/1/1
6	FUB	9	1	6	-	0/2/15/18	0/1/1/1
6	FUB	9	2	6	-	0/2/15/18	0/1/1/1
6	GZL	9	3	6	1/1/4/5	1/6/19/22	0/1/1/1
13	FUB	9A	1	13	-	0/2/15/18	0/1/1/1
13	FUB	9A	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	9A	3	13	-	4/6/19/22	0/1/1/1
13	AHR	9A	4	13	-	0/2/15/18	0/1/1/1
6	FUB	9B	1	6	-	0/2/15/18	0/1/1/1
6	FUB	9B	2	6	-	0/2/15/18	0/1/1/1
6	GZL	9B	3	6	1/1/4/5	2/6/19/22	0/1/1/1
3	FUB	9C	1	3	-	0/2/15/18	0/1/1/1
3	FUB	9C	2	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	9C	3	3	-	0/2/15/18	0/1/1/1
18	FUB	9D	1	18	-	0/2/15/18	0/1/1/1
18	FUB	9D	2	18	-	0/2/15/18	0/1/1/1
18	GZL	9D	3	18	1/1/4/5	3/6/19/22	0/1/1/1
18	AHR	9D	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	9D	5	18	-	0/2/15/18	0/1/1/1
6	FUB	AA	1	6	-	0/2/15/18	0/1/1/1
6	FUB	AA	2	6	1/1/3/4	0/2/15/18	0/1/1/1
6	GZL	AA	3	6	1/1/4/5	6/6/19/22	0/1/1/1
15	FUB	AB	1	15	-	0/2/15/18	0/1/1/1
15	FUB	AB	2	15	-	0/2/15/18	0/1/1/1
15	GZL	AB	3	15	1/1/4/5	4/6/19/22	0/1/1/1
15	AHR	AB	4	15	-	0/2/15/18	0/1/1/1
15	AHR	AB	5	15	1/1/3/4	0/2/15/18	0/1/1/1
16	NAG	AC	1	16,1	-	3/6/23/26	0/1/1/1
16	NAG	AC	2	16	-	2/6/23/26	0/1/1/1
4	FUB	AD	1	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	AD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	AD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	AD	4	4	-	0/2/15/18	0/1/1/1
19	FUB	AE	1	19	-	0/2/15/18	0/1/1/1
19	FUB	AE	2	19	-	0/2/15/18	0/1/1/1
19	GZL	AE	3	19	1/1/4/5	6/6/19/22	0/1/1/1
19	AHR	AE	4	19	-	0/2/15/18	0/1/1/1
13	FUB	BA	1	13	-	0/2/15/18	0/1/1/1
13	FUB	BA	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	BA	3	13	-	4/6/19/22	0/1/1/1
13	AHR	BA	4	13	-	0/2/15/18	0/1/1/1
15	FUB	BB	1	15	-	0/2/15/18	0/1/1/1
15	FUB	BB	2	15	-	0/2/15/18	0/1/1/1
15	GZL	BB	3	15	1/1/4/5	1/6/19/22	0/1/1/1
15	AHR	BB	4	15	-	0/2/15/18	0/1/1/1
15	AHR	BB	5	15	-	0/2/15/18	0/1/1/1
3	FUB	BC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	BC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	BC	3	3	-	0/2/15/18	0/1/1/1
5	FUB	BD	1	5	-	0/2/15/18	0/1/1/1
5	FUB	BD	2	5	-	0/2/15/18	0/1/1/1
5	FUB	BD	3	5	-	0/2/15/18	0/1/1/1
5	AHR	BD	4	5	-	0/2/15/18	0/1/1/1
5	AHR	BD	5	5	1/1/3/4	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	FUB	BE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	BE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	BE	3	18	1/1/4/5	4/6/19/22	0/1/1/1
18	AHR	BE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	BE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
15	FUB	CA	1	15	-	0/2/15/18	0/1/1/1
15	FUB	CA	2	15	-	0/2/15/18	0/1/1/1
15	GZL	CA	3	15	1/1/4/5	4/6/19/22	0/1/1/1
15	AHR	CA	4	15	-	0/2/15/18	0/1/1/1
15	AHR	CA	5	15	1/1/3/4	0/2/15/18	0/1/1/1
6	FUB	CB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	CB	2	6	-	0/2/15/18	0/1/1/1
6	GZL	CB	3	6	1/1/4/5	2/6/19/22	0/1/1/1
3	FUB	CC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	CC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	CC	3	3	-	0/2/15/18	0/1/1/1
6	FUB	CD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	CD	2	6	-	0/2/15/18	0/1/1/1
6	GZL	CD	3	6	3/3/4/5	1/6/19/22	0/1/1/1
20	FUB	CE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	CE	2	20	-	1/2/15/18	0/1/1/1
20	GZL	CE	3	20	1/1/4/5	6/6/19/22	0/1/1/1
20	AHR	CE	4	20	-	0/2/15/18	0/1/1/1
15	FUB	DA	1	15	-	0/2/15/18	0/1/1/1
15	FUB	DA	2	15	-	0/2/15/18	0/1/1/1
15	GZL	DA	3	15	1/1/4/5	2/6/19/22	0/1/1/1
15	AHR	DA	4	15	-	0/2/15/18	0/1/1/1
15	AHR	DA	5	15	-	0/2/15/18	0/1/1/1
17	NAG	DB	1	17,1	-	2/6/23/26	0/1/1/1
17	NAG	DB	2	17	-	2/6/23/26	0/1/1/1
17	BMA	DB	3	17	-	2/2/19/22	0/1/1/1
17	MAN	DB	4	17	1/1/4/5	2/2/19/22	0/1/1/1
17	MAN	DB	5	17	-	2/2/19/22	0/1/1/1
17	MAN	DB	6	17	1/1/4/5	1/2/19/22	0/1/1/1
4	FUB	DC	1	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	DC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	DC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	DC	4	4	-	0/2/15/18	0/1/1/1
3	FUB	DD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	DD	2	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	DD	3	3	-	0/2/15/18	0/1/1/1
18	FUB	DE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	DE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	DE	3	18	1/1/4/5	2/6/19/22	0/1/1/1
18	AHR	DE	4	18	-	0/2/15/18	0/1/1/1
18	AHR	DE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
6	FUB	EA	1	6	-	0/2/15/18	0/1/1/1
6	FUB	EA	2	6	-	0/2/15/18	0/1/1/1
6	GZL	EA	3	6	1/1/4/5	2/6/19/22	0/1/1/1
3	FUB	EB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	EB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	EB	3	3	-	0/2/15/18	0/1/1/1
5	FUB	EC	1	5	-	0/2/15/18	0/1/1/1
5	FUB	EC	2	5	-	0/2/15/18	0/1/1/1
5	FUB	EC	3	5	-	0/2/15/18	0/1/1/1
5	AHR	EC	4	5	-	0/2/15/18	0/1/1/1
5	AHR	EC	5	5	-	0/2/15/18	0/1/1/1
3	FUB	ED	1	3	-	0/2/15/18	0/1/1/1
3	FUB	ED	2	3	-	0/2/15/18	0/1/1/1
3	FUB	ED	3	3	-	0/2/15/18	0/1/1/1
20	FUB	EE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	EE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	EE	3	20	1/1/4/5	0/6/19/22	0/1/1/1
20	AHR	EE	4	20	-	0/2/15/18	0/1/1/1
16	NAG	FA	1	16,1	-	4/6/23/26	0/1/1/1
16	NAG	FA	2	16	-	2/6/23/26	0/1/1/1
12	FUB	FB	1	12	-	0/2/15/18	0/1/1/1
12	FUB	FB	2	12	-	0/2/15/18	0/1/1/1
12	GZL	FB	3	12	2/2/4/5	3/6/19/22	0/1/1/1
12	AHR	FB	4	12	-	0/2/15/18	0/1/1/1
12	AHR	FB	5	12	-	0/2/15/18	0/1/1/1
6	FUB	FC	1	6	-	0/2/15/18	0/1/1/1
6	FUB	FC	2	6	-	0/2/15/18	0/1/1/1
6	GZL	FC	3	6	1/1/4/5	4/6/19/22	0/1/1/1
3	FUB	FD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	FD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	FD	3	3	-	0/2/15/18	0/1/1/1
21	FUB	FE	1	21	-	0/2/15/18	0/1/1/1
21	FUB	FE	2	21	-	0/2/15/18	0/1/1/1
21	GZL	FE	3	21	1/1/4/5	2/6/19/22	0/1/1/1
21	AHR	FE	4	21	1/1/3/4	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	AHR	FE	5	21	1/1/3/4	0/2/15/18	0/1/1/1
17	NAG	GA	1	17,1	-	1/6/23/26	0/1/1/1
17	NAG	GA	2	17	-	2/6/23/26	0/1/1/1
17	BMA	GA	3	17	-	2/2/19/22	0/1/1/1
17	MAN	GA	4	17	1/1/4/5	1/2/19/22	0/1/1/1
17	MAN	GA	5	17	-	1/2/19/22	0/1/1/1
17	MAN	GA	6	17	1/1/4/5	1/2/19/22	0/1/1/1
13	FUB	GB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	GB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	GB	3	13	2/2/4/5	3/6/19/22	0/1/1/1
13	AHR	GB	4	13	-	0/2/15/18	0/1/1/1
3	FUB	GC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	GC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	GC	3	3	-	0/2/15/18	0/1/1/1
6	FUB	GD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	GD	2	6	-	0/2/15/18	0/1/1/1
6	GZL	GD	3	6	1/1/4/5	4/6/19/22	0/1/1/1
22	FUB	GE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	GE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	GE	3	22	1/1/4/5	6/6/19/22	0/1/1/1
22	AHR	GE	4	22	-	0/2/15/18	0/1/1/1
22	AHR	GE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	GE	6	22	-	0/2/15/18	0/1/1/1
3	FUB	HA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	HA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	HA	3	3	-	0/2/15/18	0/1/1/1
14	FUB	HB	1	14	-	0/2/15/18	0/1/1/1
14	FUB	HB	2	14	-	0/2/15/18	0/1/1/1
14	GZL	HB	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	HB	4	14	-	0/2/15/18	0/1/1/1
3	FUB	HC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	HC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	HC	3	3	-	0/2/15/18	0/1/1/1
7	FUB	HD	1	7	-	0/2/15/18	0/1/1/1
7	FUB	HD	2	7	-	0/2/15/18	0/1/1/1
7	FUB	HD	3	7	-	0/2/15/18	0/1/1/1
7	AHR	HD	4	7	-	0/2/15/18	0/1/1/1
20	FUB	HE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	HE	2	20	-	2/2/15/18	0/1/1/1
20	GZL	HE	3	20	1/1/4/5	6/6/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	AHR	HE	4	20	-	0/2/15/18	0/1/1/1
3	FUB	IA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	IA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	IA	3	3	-	0/2/15/18	0/1/1/1
12	FUB	IB	1	12	-	0/2/15/18	0/1/1/1
12	FUB	IB	2	12	-	0/2/15/18	0/1/1/1
12	GZL	IB	3	12	2/2/4/5	6/6/19/22	0/1/1/1
12	AHR	IB	4	12	-	0/2/15/18	0/1/1/1
12	AHR	IB	5	12	-	0/2/15/18	0/1/1/1
3	FUB	IC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	IC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	IC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	ID	1	3	-	0/2/15/18	0/1/1/1
3	FUB	ID	2	3	-	0/2/15/18	0/1/1/1
3	FUB	ID	3	3	-	0/2/15/18	0/1/1/1
18	FUB	IE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	IE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	IE	3	18	1/1/4/5	6/6/19/22	0/1/1/1
18	AHR	IE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	IE	5	18	-	0/2/15/18	0/1/1/1
3	FUB	J	1	3	-	0/2/15/18	0/1/1/1
3	FUB	J	2	3	-	0/2/15/18	0/1/1/1
3	FUB	J	3	3	-	0/2/15/18	0/1/1/1
4	FUB	JA	1	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	JA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	JA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	JA	4	4	-	0/2/15/18	0/1/1/1
4	FUB	JB	1	4	-	0/2/15/18	0/1/1/1
4	FUB	JB	2	4	-	0/2/15/18	0/1/1/1
4	FUB	JB	3	4	-	0/2/15/18	0/1/1/1
4	AHR	JB	4	4	-	0/2/15/18	0/1/1/1
6	FUB	JC	1	6	-	0/2/15/18	0/1/1/1
6	FUB	JC	2	6	-	0/2/15/18	0/1/1/1
6	GZL	JC	3	6	1/1/4/5	0/6/19/22	0/1/1/1
8	FUB	JD	1	8	-	0/2/15/18	0/1/1/1
8	FUB	JD	2	8	-	0/2/15/18	0/1/1/1
8	FUB	JD	3	8	-	0/2/15/18	0/1/1/1
8	AHR	JD	4	8	-	0/2/15/18	0/1/1/1
8	AHR	JD	5	8	-	0/2/15/18	0/1/1/1
18	FUB	JE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	JE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	JE	3	18	1/1/4/5	2/6/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	AHR	JE	4	18	-	0/2/15/18	0/1/1/1
18	AHR	JE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	K	1	3	-	0/2/15/18	0/1/1/1
3	FUB	K	2	3	-	0/2/15/18	0/1/1/1
3	FUB	K	3	3	-	0/2/15/18	0/1/1/1
5	FUB	KA	1	5	-	0/2/15/18	0/1/1/1
5	FUB	KA	2	5	-	0/2/15/18	0/1/1/1
5	FUB	KA	3	5	-	0/2/15/18	0/1/1/1
5	AHR	KA	4	5	-	0/2/15/18	0/1/1/1
5	AHR	KA	5	5	-	0/2/15/18	0/1/1/1
14	FUB	KB	1	14	-	0/2/15/18	0/1/1/1
14	FUB	KB	2	14	-	0/2/15/18	0/1/1/1
14	GZL	KB	3	14	2/2/4/5	4/6/19/22	0/1/1/1
14	FUB	KB	4	14	-	0/2/15/18	0/1/1/1
7	FUB	KC	1	7	-	0/2/15/18	0/1/1/1
7	FUB	KC	2	7	-	0/2/15/18	0/1/1/1
7	FUB	KC	3	7	-	0/2/15/18	0/1/1/1
7	AHR	KC	4	7	-	0/2/15/18	0/1/1/1
3	FUB	KD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	KD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	KD	3	3	-	0/2/15/18	0/1/1/1
18	FUB	KE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	KE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	KE	3	18	1/1/4/5	4/6/19/22	0/1/1/1
18	AHR	KE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	KE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	L	1	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	L	2	4	-	0/2/15/18	0/1/1/1
4	FUB	L	3	4	-	0/2/15/18	0/1/1/1
4	AHR	L	4	4	-	0/2/15/18	0/1/1/1
6	FUB	LA	1	6	-	0/2/15/18	0/1/1/1
6	FUB	LA	2	6	-	0/2/15/18	0/1/1/1
6	GZL	LA	3	6	2/2/4/5	2/6/19/22	0/1/1/1
3	FUB	LB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	LB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	LB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	LC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	LC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	LC	3	3	-	0/2/15/18	0/1/1/1
4	FUB	LD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	LD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	LD	3	4	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	AHR	LD	4	4	-	0/2/15/18	0/1/1/1
19	FUB	LE	1	19	-	0/2/15/18	0/1/1/1
19	FUB	LE	2	19	-	0/2/15/18	0/1/1/1
19	GZL	LE	3	19	1/1/4/5	2/6/19/22	0/1/1/1
19	AHR	LE	4	19	1/1/3/4	0/2/15/18	0/1/1/1
5	FUB	M	1	5	-	0/2/15/18	0/1/1/1
5	FUB	M	2	5	-	0/2/15/18	0/1/1/1
5	FUB	M	3	5	-	0/2/15/18	0/1/1/1
5	AHR	M	4	5	-	0/2/15/18	0/1/1/1
5	AHR	M	5	5	-	0/2/15/18	0/1/1/1
3	FUB	MA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	MA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	MA	3	3	-	0/2/15/18	0/1/1/1
10	FUB	MB	1	10	-	0/2/15/18	0/1/1/1
10	FUB	MB	2	10	-	0/2/15/18	0/1/1/1
10	FUB	MB	3	10	-	0/2/15/18	0/1/1/1
10	AHR	MB	4	10	-	0/2/15/18	0/1/1/1
10	AHR	MB	5	10	-	0/2/15/18	0/1/1/1
8	FUB	MC	1	8	-	0/2/15/18	0/1/1/1
8	FUB	MC	2	8	-	0/2/15/18	0/1/1/1
8	FUB	MC	3	8	-	0/2/15/18	0/1/1/1
8	AHR	MC	4	8	-	0/2/15/18	0/1/1/1
8	AHR	MC	5	8	-	0/2/15/18	0/1/1/1
4	FUB	MD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	MD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	MD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	MD	4	4	-	0/2/15/18	0/1/1/1
6	FUB	ME	1	6	-	0/2/15/18	0/1/1/1
6	FUB	ME	2	6	-	0/2/15/18	0/1/1/1
6	GZL	ME	3	6	1/1/4/5	4/6/19/22	0/1/1/1
6	FUB	N	1	6	-	0/2/15/18	0/1/1/1
6	FUB	N	2	6	-	0/2/15/18	0/1/1/1
6	GZL	N	3	6	2/2/4/5	2/6/19/22	0/1/1/1
3	FUB	NA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	NA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	NA	3	3	-	0/2/15/18	0/1/1/1
4	FUB	NB	1	4	-	0/2/15/18	0/1/1/1
4	FUB	NB	2	4	-	0/2/15/18	0/1/1/1
4	FUB	NB	3	4	-	0/2/15/18	0/1/1/1
4	AHR	NB	4	4	-	0/2/15/18	0/1/1/1
3	FUB	NC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	NC	2	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	NC	3	3	-	0/2/15/18	0/1/1/1
9	FUB	ND	1	9	-	0/2/15/18	0/1/1/1
9	FUB	ND	2	9	-	0/2/15/18	0/1/1/1
19	FUB	NE	1	19	-	0/2/15/18	0/1/1/1
19	FUB	NE	2	19	-	0/2/15/18	0/1/1/1
19	GZL	NE	3	19	1/1/4/5	2/6/19/22	0/1/1/1
19	AHR	NE	4	19	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	O	1	3	-	0/2/15/18	0/1/1/1
3	FUB	O	2	3	-	0/2/15/18	0/1/1/1
3	FUB	O	3	3	-	0/2/15/18	0/1/1/1
3	FUB	OA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	OA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	OA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	OB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	OB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	OB	3	3	-	0/2/15/18	0/1/1/1
4	FUB	OC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	OC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	OC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	OC	4	4	-	0/2/15/18	0/1/1/1
4	FUB	OD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	OD	2	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	OD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	OD	4	4	-	0/2/15/18	0/1/1/1
6	FUB	OE	1	6	-	0/2/15/18	0/1/1/1
6	FUB	OE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	OE	3	6	1/1/4/5	4/6/19/22	0/1/1/1
3	FUB	P	1	3	-	0/2/15/18	0/1/1/1
3	FUB	P	2	3	-	0/2/15/18	0/1/1/1
3	FUB	P	3	3	-	0/2/15/18	0/1/1/1
6	FUB	PA	1	6	-	0/2/15/18	0/1/1/1
6	FUB	PA	2	6	-	0/2/15/18	0/1/1/1
6	GZL	PA	3	6	1/1/4/5	2/6/19/22	0/1/1/1
3	FUB	PB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	PB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	PB	3	3	-	0/2/15/18	0/1/1/1
4	FUB	PC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	PC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	PC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	PC	4	4	1/1/3/4	0/2/15/18	0/1/1/1
10	FUB	PD	1	10	-	0/2/15/18	0/1/1/1
10	FUB	PD	2	10	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
10	FUB	PD	3	10	-	0/2/15/18	0/1/1/1
10	AHR	PD	4	10	-	0/2/15/18	0/1/1/1
10	AHR	PD	5	10	-	0/2/15/18	0/1/1/1
18	FUB	PE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	PE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	PE	3	18	1/1/4/5	2/6/19/22	0/1/1/1
18	AHR	PE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	PE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	Q	1	3	-	0/2/15/18	0/1/1/1
3	FUB	Q	2	3	-	0/2/15/18	0/1/1/1
3	FUB	Q	3	3	-	0/2/15/18	0/1/1/1
7	FUB	QA	1	7	-	0/2/15/18	0/1/1/1
7	FUB	QA	2	7	-	0/2/15/18	0/1/1/1
7	FUB	QA	3	7	-	0/2/15/18	0/1/1/1
7	AHR	QA	4	7	-	0/2/15/18	0/1/1/1
3	FUB	QB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	QB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	QB	3	3	-	0/2/15/18	0/1/1/1
9	FUB	QC	1	9	-	0/2/15/18	0/1/1/1
9	FUB	QC	2	9	-	0/2/15/18	0/1/1/1
3	FUB	QD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	QD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	QD	3	3	-	0/2/15/18	0/1/1/1
22	FUB	QE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	QE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	QE	3	22	1/1/4/5	2/6/19/22	0/1/1/1
22	AHR	QE	4	22	1/1/3/4	0/2/15/18	0/1/1/1
22	AHR	QE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	QE	6	22	1/1/3/4	0/2/15/18	0/1/1/1
6	FUB	R	1	6	-	0/2/15/18	0/1/1/1
6	FUB	R	2	6	-	0/2/15/18	0/1/1/1
6	GZL	R	3	6	1/1/4/5	2/6/19/22	0/1/1/1
3	FUB	RA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	RA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	RA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	RB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	RB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	RB	3	3	-	0/2/15/18	0/1/1/1
4	FUB	RC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	RC	2	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	RC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	RC	4	4	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	FUB	RD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	RD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	RD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	RD	4	4	-	0/2/15/18	0/1/1/1
22	FUB	RE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	RE	2	22	-	1/2/15/18	0/1/1/1
22	GZL	RE	3	22	1/1/4/5	3/6/19/22	0/1/1/1
22	AHR	RE	4	22	2/2/3/4	0/2/15/18	0/1/1/1
22	AHR	RE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	RE	6	22	-	0/2/15/18	0/1/1/1
7	FUB	S	1	7	-	0/2/15/18	0/1/1/1
7	FUB	S	2	7	-	0/2/15/18	0/1/1/1
7	FUB	S	3	7	-	0/2/15/18	0/1/1/1
7	AHR	S	4	7	-	0/2/15/18	0/1/1/1
8	FUB	SA	1	8	-	0/2/15/18	0/1/1/1
8	FUB	SA	2	8	-	0/2/15/18	0/1/1/1
8	FUB	SA	3	8	-	0/2/15/18	0/1/1/1
8	AHR	SA	4	8	-	0/2/15/18	0/1/1/1
8	AHR	SA	5	8	-	0/2/15/18	0/1/1/1
3	FUB	SB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	SB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	SB	3	3	-	0/2/15/18	0/1/1/1
10	FUB	SC	1	10	-	0/2/15/18	0/1/1/1
10	FUB	SC	2	10	-	0/2/15/18	0/1/1/1
10	FUB	SC	3	10	-	0/2/15/18	0/1/1/1
10	AHR	SC	4	10	-	0/2/15/18	0/1/1/1
10	AHR	SC	5	10	-	0/2/15/18	0/1/1/1
4	FUB	SD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	SD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	SD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	SD	4	4	-	0/2/15/18	0/1/1/1
18	FUB	SE	1	18	1/1/3/4	0/2/15/18	0/1/1/1
18	FUB	SE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	SE	3	18	1/1/4/5	3/6/19/22	0/1/1/1
18	AHR	SE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	SE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	T	1	3	-	0/2/15/18	0/1/1/1
3	FUB	T	2	3	-	0/2/15/18	0/1/1/1
3	FUB	T	3	3	-	0/2/15/18	0/1/1/1
3	FUB	TA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	TA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	TA	3	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	TB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	TB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	TB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	TC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	TC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	TC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	TD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	TD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	TD	3	3	-	0/2/15/18	0/1/1/1
20	FUB	TE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	TE	2	20	-	2/2/15/18	0/1/1/1
20	GZL	TE	3	20	1/1/4/5	4/6/19/22	0/1/1/1
20	AHR	TE	4	20	1/1/3/4	0/2/15/18	0/1/1/1
8	FUB	U	1	8	-	0/2/15/18	0/1/1/1
8	FUB	U	2	8	-	0/2/15/18	0/1/1/1
8	FUB	U	3	8	-	0/2/15/18	0/1/1/1
8	AHR	U	4	8	-	0/2/15/18	0/1/1/1
8	AHR	U	5	8	-	0/2/15/18	0/1/1/1
4	FUB	UA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	UA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	UA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	UA	4	4	-	0/2/15/18	0/1/1/1
3	FUB	UB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	UB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	UB	3	3	-	0/2/15/18	0/1/1/1
4	FUB	UC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	UC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	UC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	UC	4	4	-	0/2/15/18	0/1/1/1
7	FUB	UD	1	7	-	0/2/15/18	0/1/1/1
7	FUB	UD	2	7	-	0/2/15/18	0/1/1/1
7	FUB	UD	3	7	-	0/2/15/18	0/1/1/1
7	AHR	UD	4	7	-	0/2/15/18	0/1/1/1
20	FUB	UE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	UE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	UE	3	20	1/1/4/5	4/6/19/22	0/1/1/1
20	AHR	UE	4	20	-	0/2/15/18	0/1/1/1
3	FUB	V	1	3	-	0/2/15/18	0/1/1/1
3	FUB	V	2	3	-	0/2/15/18	0/1/1/1
3	FUB	V	3	3	-	0/2/15/18	0/1/1/1
4	FUB	VA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	VA	2	4	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	FUB	VA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	VA	4	4	2/2/3/4	0/2/15/18	0/1/1/1
10	FUB	VB	1	10	-	0/2/15/18	0/1/1/1
10	FUB	VB	2	10	-	0/2/15/18	0/1/1/1
10	FUB	VB	3	10	-	0/2/15/18	0/1/1/1
10	AHR	VB	4	10	1/1/3/4	0/2/15/18	0/1/1/1
10	AHR	VB	5	10	-	0/2/15/18	0/1/1/1
4	FUB	VC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	VC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	VC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	VC	4	4	-	0/2/15/18	0/1/1/1
4	FUB	VD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	VD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	VD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	VD	4	4	-	0/2/15/18	0/1/1/1
22	FUB	VE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	VE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	VE	3	22	1/1/4/5	2/6/19/22	0/1/1/1
22	AHR	VE	4	22	1/1/3/4	0/2/15/18	0/1/1/1
22	AHR	VE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	VE	6	22	-	0/2/15/18	0/1/1/1
4	FUB	W	1	4	-	0/2/15/18	0/1/1/1
4	FUB	W	2	4	-	0/2/15/18	0/1/1/1
4	FUB	W	3	4	-	0/2/15/18	0/1/1/1
4	AHR	W	4	4	-	0/2/15/18	0/1/1/1
9	FUB	WA	1	9	-	0/2/15/18	0/1/1/1
9	FUB	WA	2	9	-	0/2/15/18	0/1/1/1
13	FUB	WB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	WB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	WB	3	13	3/3/4/5	1/6/19/22	0/1/1/1
13	AHR	WB	4	13	-	0/2/15/18	0/1/1/1
3	FUB	WC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	WC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	WC	3	3	-	0/2/15/18	0/1/1/1
7	FUB	WD	1	7	-	0/2/15/18	0/1/1/1
7	FUB	WD	2	7	-	0/2/15/18	0/1/1/1
7	FUB	WD	3	7	-	0/2/15/18	0/1/1/1
7	AHR	WD	4	7	-	0/2/15/18	0/1/1/1
20	FUB	WE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	WE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	WE	3	20	1/1/4/5	2/6/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	AHR	WE	4	20	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	X	1	4	-	0/2/15/18	0/1/1/1
4	FUB	X	2	4	-	0/2/15/18	0/1/1/1
4	FUB	X	3	4	-	0/2/15/18	0/1/1/1
4	AHR	X	4	4	-	0/2/15/18	0/1/1/1
3	FUB	XA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	XA	2	3	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	XA	3	3	-	0/2/15/18	0/1/1/1
6	FUB	XB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	XB	2	6	-	0/2/15/18	0/1/1/1
6	GZL	XB	3	6	2/2/4/5	5/6/19/22	0/1/1/1
7	FUB	XC	1	7	-	0/2/15/18	0/1/1/1
7	FUB	XC	2	7	-	0/2/15/18	0/1/1/1
7	FUB	XC	3	7	-	0/2/15/18	0/1/1/1
7	AHR	XC	4	7	-	0/2/15/18	0/1/1/1
11	FUB	XD	1	11	-	0/2/15/18	0/1/1/1
11	AHR	XD	2	11	-	0/2/15/18	0/1/1/1
11	AHR	XD	3	11	-	0/2/15/18	0/1/1/1
23	FUB	XE	1	23	-	0/2/15/18	0/1/1/1
23	FUB	XE	2	23	-	1/2/15/18	0/1/1/1
23	GZL	XE	3	23	1/1/4/5	2/6/19/22	0/1/1/1
23	AHR	XE	4	23	1/1/3/4	0/2/15/18	0/1/1/1
23	AHR	XE	5	23	1/1/3/4	0/2/15/18	0/1/1/1
23	AHR	XE	6	23	-	0/2/15/18	0/1/1/1
9	FUB	Y	1	9	-	0/2/15/18	0/1/1/1
9	FUB	Y	2	9	-	0/2/15/18	0/1/1/1
10	FUB	YA	1	10	-	0/2/15/18	0/1/1/1
10	FUB	YA	2	10	-	0/2/15/18	0/1/1/1
10	FUB	YA	3	10	-	0/2/15/18	0/1/1/1
10	AHR	YA	4	10	-	0/2/15/18	0/1/1/1
10	AHR	YA	5	10	-	0/2/15/18	0/1/1/1
13	FUB	YB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	YB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	YB	3	13	1/1/4/5	4/6/19/22	0/1/1/1
13	AHR	YB	4	13	-	0/2/15/18	0/1/1/1
4	FUB	YC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	YC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	YC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	YC	4	4	-	0/2/15/18	0/1/1/1
9	FUB	YD	1	9	-	0/2/15/18	0/1/1/1
9	FUB	YD	2	9	-	0/2/15/18	0/1/1/1
24	FUB	YE	1	24	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	FUB	YE	2	24	-	0/2/15/18	0/1/1/1
24	GZL	YE	3	24	1/1/4/5	4/6/19/22	0/1/1/1
24	AHR	YE	4	24	1/1/3/4	0/2/15/18	0/1/1/1
24	AHR	YE	5	24	-	0/2/15/18	0/1/1/1
24	AHR	YE	6	24	-	0/2/15/18	0/1/1/1
4	FUB	Z	1	4	-	0/2/15/18	0/1/1/1
4	FUB	Z	2	4	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	Z	3	4	-	0/2/15/18	0/1/1/1
4	AHR	Z	4	4	-	0/2/15/18	0/1/1/1
3	FUB	ZA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	ZA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	ZA	3	3	-	0/2/15/18	0/1/1/1
13	FUB	ZB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	ZB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	ZB	3	13	1/1/4/5	2/6/19/22	0/1/1/1
13	AHR	ZB	4	13	-	0/2/15/18	0/1/1/1
7	FUB	ZC	1	7	-	0/2/15/18	0/1/1/1
7	FUB	ZC	2	7	-	0/2/15/18	0/1/1/1
7	FUB	ZC	3	7	-	0/2/15/18	0/1/1/1
7	AHR	ZC	4	7	-	0/2/15/18	0/1/1/1
4	FUB	ZD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	ZD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	ZD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	ZD	4	4	-	0/2/15/18	0/1/1/1
6	FUB	ZE	1	6	-	0/2/15/18	0/1/1/1
6	FUB	ZE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	ZE	3	6	1/1/4/5	2/6/19/22	0/1/1/1
10	FUB	a	1	10	-	0/2/15/18	0/1/1/1
10	FUB	a	2	10	-	0/2/15/18	0/1/1/1
10	FUB	a	3	10	-	0/2/15/18	0/1/1/1
10	AHR	a	4	10	-	0/2/15/18	0/1/1/1
10	AHR	a	5	10	-	0/2/15/18	0/1/1/1
4	FUB	aA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	aA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	aA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	aA	4	4	-	0/2/15/18	0/1/1/1
6	FUB	aB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	aB	2	6	-	0/2/15/18	0/1/1/1
6	GZL	aB	3	6	-	2/6/19/22	0/1/1/1
11	FUB	aC	1	11	-	0/2/15/18	0/1/1/1
11	AHR	aC	2	11	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	AHR	aC	3	11	-	0/2/15/18	0/1/1/1
3	FUB	aD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	aD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	aD	3	3	-	0/2/15/18	0/1/1/1
19	FUB	aE	1	19	-	0/2/15/18	0/1/1/1
19	FUB	aE	2	19	-	0/2/15/18	0/1/1/1
19	GZL	aE	3	19	1/1/4/5	2/6/19/22	0/1/1/1
19	AHR	aE	4	19	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	b	1	3	-	0/2/15/18	0/1/1/1
3	FUB	b	2	3	-	0/2/15/18	0/1/1/1
3	FUB	b	3	3	-	0/2/15/18	0/1/1/1
4	FUB	bA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	bA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	bA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	bA	4	4	-	0/2/15/18	0/1/1/1
6	FUB	bB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	bB	2	6	-	0/2/15/18	0/1/1/1
6	GZL	bB	3	6	1/1/4/5	4/6/19/22	0/1/1/1
9	FUB	bC	1	9	-	0/2/15/18	0/1/1/1
9	FUB	bC	2	9	-	0/2/15/18	0/1/1/1
3	FUB	bD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	bD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	bD	3	3	-	0/2/15/18	0/1/1/1
6	FUB	bE	1	6	-	0/2/15/18	0/1/1/1
6	FUB	bE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	bE	3	6	1/1/4/5	4/6/19/22	0/1/1/1
4	FUB	c	1	4	-	0/2/15/18	0/1/1/1
4	FUB	c	2	4	-	0/2/15/18	0/1/1/1
4	FUB	c	3	4	-	0/2/15/18	0/1/1/1
4	AHR	c	4	4	-	0/2/15/18	0/1/1/1
3	FUB	cA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	cA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	cA	3	3	-	0/2/15/18	0/1/1/1
6	FUB	cB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	cB	2	6	1/1/3/4	0/2/15/18	0/1/1/1
6	GZL	cB	3	6	1/1/4/5	4/6/19/22	0/1/1/1
4	FUB	cC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	cC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	cC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	cC	4	4	-	0/2/15/18	0/1/1/1
12	FUB	cD	1	12	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	FUB	cD	2	12	-	0/2/15/18	0/1/1/1
12	GZL	cD	3	12	2/2/4/5	2/6/19/22	0/1/1/1
12	AHR	cD	4	12	-	0/2/15/18	0/1/1/1
12	AHR	cD	5	12	-	0/2/15/18	0/1/1/1
18	FUB	cE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	cE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	cE	3	18	1/1/4/5	2/6/19/22	0/1/1/1
18	AHR	cE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	cE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	d	1	4	-	0/2/15/18	0/1/1/1
4	FUB	d	2	4	-	0/2/15/18	0/1/1/1
4	FUB	d	3	4	-	0/2/15/18	0/1/1/1
4	AHR	d	4	4	-	0/2/15/18	0/1/1/1
7	FUB	dA	1	7	-	0/2/15/18	0/1/1/1
7	FUB	dA	2	7	-	0/2/15/18	0/1/1/1
7	FUB	dA	3	7	-	0/2/15/18	0/1/1/1
7	AHR	dA	4	7	-	0/2/15/18	0/1/1/1
13	FUB	dB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	dB	2	13	1/1/3/4	0/2/15/18	0/1/1/1
13	GZL	dB	3	13	-	4/6/19/22	0/1/1/1
13	AHR	dB	4	13	-	0/2/15/18	0/1/1/1
3	FUB	dC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	dC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	dC	3	3	-	0/2/15/18	0/1/1/1
13	FUB	dD	1	13	-	0/2/15/18	0/1/1/1
13	FUB	dD	2	13	-	0/2/15/18	0/1/1/1
13	GZL	dD	3	13	2/2/4/5	3/6/19/22	0/1/1/1
13	AHR	dD	4	13	-	0/2/15/18	0/1/1/1
22	FUB	dE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	dE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	dE	3	22	1/1/4/5	4/6/19/22	0/1/1/1
22	AHR	dE	4	22	1/1/3/4	0/2/15/18	0/1/1/1
22	AHR	dE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	dE	6	22	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	e	1	3	-	0/2/15/18	0/1/1/1
3	FUB	e	2	3	-	0/2/15/18	0/1/1/1
3	FUB	e	3	3	-	0/2/15/18	0/1/1/1
4	FUB	eA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	eA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	eA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	eA	4	4	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	FUB	eB	1	15	-	0/2/15/18	0/1/1/1
15	FUB	eB	2	15	-	0/2/15/18	0/1/1/1
15	GZL	eB	3	15	1/1/4/5	6/6/19/22	0/1/1/1
15	AHR	eB	4	15	-	0/2/15/18	0/1/1/1
15	AHR	eB	5	15	1/1/3/4	0/2/15/18	0/1/1/1
3	FUB	eC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	eC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	eC	3	3	-	0/2/15/18	0/1/1/1
14	FUB	eD	1	14	-	0/2/15/18	0/1/1/1
14	FUB	eD	2	14	-	0/2/15/18	0/1/1/1
14	GZL	eD	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	eD	4	14	-	0/2/15/18	0/1/1/1
22	FUB	eE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	eE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	eE	3	22	1/1/4/5	2/6/19/22	0/1/1/1
22	AHR	eE	4	22	2/2/3/4	0/2/15/18	0/1/1/1
22	AHR	eE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	eE	6	22	-	0/2/15/18	0/1/1/1
7	FUB	f	1	7	-	0/2/15/18	0/1/1/1
7	FUB	f	2	7	-	0/2/15/18	0/1/1/1
7	FUB	f	3	7	-	0/2/15/18	0/1/1/1
7	AHR	f	4	7	-	0/2/15/18	0/1/1/1
7	FUB	fA	1	7	-	0/2/15/18	0/1/1/1
7	FUB	fA	2	7	-	0/2/15/18	0/1/1/1
7	FUB	fA	3	7	-	0/2/15/18	0/1/1/1
7	AHR	fA	4	7	-	0/2/15/18	0/1/1/1
15	FUB	fB	1	15	-	0/2/15/18	0/1/1/1
15	FUB	fB	2	15	-	0/2/15/18	0/1/1/1
15	GZL	fB	3	15	1/1/4/5	0/6/19/22	0/1/1/1
15	AHR	fB	4	15	-	0/2/15/18	0/1/1/1
15	AHR	fB	5	15	-	0/2/15/18	0/1/1/1
12	FUB	fC	1	12	-	0/2/15/18	0/1/1/1
12	FUB	fC	2	12	-	0/2/15/18	0/1/1/1
12	GZL	fC	3	12	2/2/4/5	6/6/19/22	0/1/1/1
12	AHR	fC	4	12	-	0/2/15/18	0/1/1/1
12	AHR	fC	5	12	-	0/2/15/18	0/1/1/1
12	FUB	fD	1	12	-	0/2/15/18	0/1/1/1
12	FUB	fD	2	12	-	0/2/15/18	0/1/1/1
12	GZL	fD	3	12	2/2/4/5	2/6/19/22	0/1/1/1
12	AHR	fD	4	12	-	0/2/15/18	0/1/1/1
12	AHR	fD	5	12	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	FUB	fE	1	18	1/1/3/4	0/2/15/18	0/1/1/1
18	FUB	fE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	fE	3	18	1/1/4/5	6/6/19/22	0/1/1/1
18	AHR	fE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	fE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	g	1	4	-	0/2/15/18	0/1/1/1
4	FUB	g	2	4	-	0/2/15/18	0/1/1/1
4	FUB	g	3	4	-	0/2/15/18	0/1/1/1
4	AHR	g	4	4	-	0/2/15/18	0/1/1/1
11	FUB	gA	1	11	-	1/2/15/18	0/1/1/1
11	AHR	gA	2	11	-	0/2/15/18	0/1/1/1
11	AHR	gA	3	11	-	0/2/15/18	0/1/1/1
6	FUB	gB	1	6	-	0/2/15/18	0/1/1/1
6	FUB	gB	2	6	-	0/2/15/18	0/1/1/1
6	GZL	gB	3	6	1/1/4/5	6/6/19/22	0/1/1/1
13	FUB	gC	1	13	-	0/2/15/18	0/1/1/1
13	FUB	gC	2	13	-	0/2/15/18	0/1/1/1
13	GZL	gC	3	13	2/2/4/5	2/6/19/22	0/1/1/1
13	AHR	gC	4	13	-	0/2/15/18	0/1/1/1
4	FUB	gD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	gD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	gD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	gD	4	4	-	0/2/15/18	0/1/1/1
20	FUB	gE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	gE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	gE	3	20	1/1/4/5	2/6/19/22	0/1/1/1
20	AHR	gE	4	20	1/1/3/4	0/2/15/18	0/1/1/1
7	FUB	h	1	7	-	0/2/15/18	0/1/1/1
7	FUB	h	2	7	-	0/2/15/18	0/1/1/1
7	FUB	h	3	7	-	0/2/15/18	0/1/1/1
7	AHR	h	4	7	-	0/2/15/18	0/1/1/1
9	FUB	hA	1	9	-	0/2/15/18	0/1/1/1
9	FUB	hA	2	9	-	0/2/15/18	0/1/1/1
3	FUB	hB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	hB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	hB	3	3	-	0/2/15/18	0/1/1/1
14	FUB	hC	1	14	-	0/2/15/18	0/1/1/1
14	FUB	hC	2	14	-	0/2/15/18	0/1/1/1
14	GZL	hC	3	14	2/2/4/5	3/6/19/22	0/1/1/1
14	FUB	hC	4	14	-	0/2/15/18	0/1/1/1
14	FUB	hD	1	14	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	FUB	hD	2	14	-	0/2/15/18	0/1/1/1
14	GZL	hD	3	14	2/2/4/5	4/6/19/22	0/1/1/1
14	FUB	hD	4	14	-	0/2/15/18	0/1/1/1
20	FUB	hE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	hE	2	20	-	2/2/15/18	0/1/1/1
20	GZL	hE	3	20	1/1/4/5	3/6/19/22	0/1/1/1
20	AHR	hE	4	20	-	0/2/15/18	0/1/1/1
11	FUB	i	1	11	-	0/2/15/18	0/1/1/1
11	AHR	i	2	11	-	0/2/15/18	0/1/1/1
11	AHR	i	3	11	-	0/2/15/18	0/1/1/1
4	FUB	iA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	iA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	iA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	iA	4	4	-	0/2/15/18	0/1/1/1
12	FUB	iB	1	12	-	0/2/15/18	0/1/1/1
12	FUB	iB	2	12	-	0/2/15/18	0/1/1/1
12	GZL	iB	3	12	2/2/4/5	6/6/19/22	0/1/1/1
12	AHR	iB	4	12	-	0/2/15/18	0/1/1/1
12	AHR	iB	5	12	-	0/2/15/18	0/1/1/1
12	FUB	iC	1	12	-	0/2/15/18	0/1/1/1
12	FUB	iC	2	12	-	0/2/15/18	0/1/1/1
12	GZL	iC	3	12	2/2/4/5	6/6/19/22	0/1/1/1
12	AHR	iC	4	12	-	0/2/15/18	0/1/1/1
12	AHR	iC	5	12	-	0/2/15/18	0/1/1/1
3	FUB	iD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	iD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	iD	3	3	-	0/2/15/18	0/1/1/1
22	FUB	iE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	iE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	iE	3	22	1/1/4/5	2/6/19/22	0/1/1/1
22	AHR	iE	4	22	1/1/3/4	0/2/15/18	0/1/1/1
22	AHR	iE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	iE	6	22	-	0/2/15/18	0/1/1/1
9	FUB	j	1	9	-	0/2/15/18	0/1/1/1
9	FUB	j	2	9	-	0/2/15/18	0/1/1/1
3	FUB	jA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	jA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	jA	3	3	-	0/2/15/18	0/1/1/1
13	FUB	jB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	jB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	jB	3	13	2/2/4/5	3/6/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	AHR	jB	4	13	-	0/2/15/18	0/1/1/1
4	FUB	jC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	jC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	jC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	jC	4	4	-	0/2/15/18	0/1/1/1
10	FUB	jD	1	10	-	0/2/15/18	0/1/1/1
10	FUB	jD	2	10	-	0/2/15/18	0/1/1/1
10	FUB	jD	3	10	-	0/2/15/18	0/1/1/1
10	AHR	jD	4	10	-	0/2/15/18	0/1/1/1
10	AHR	jD	5	10	-	0/2/15/18	0/1/1/1
20	FUB	jE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	jE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	jE	3	20	1/1/4/5	4/6/19/22	0/1/1/1
20	AHR	jE	4	20	1/1/3/4	0/2/15/18	0/1/1/1
4	FUB	k	1	4	-	0/2/15/18	0/1/1/1
4	FUB	k	2	4	-	0/2/15/18	0/1/1/1
4	FUB	k	3	4	-	0/2/15/18	0/1/1/1
4	AHR	k	4	4	-	0/2/15/18	0/1/1/1
3	FUB	kA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	kA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	kA	3	3	-	0/2/15/18	0/1/1/1
14	FUB	kB	1	14	-	0/2/15/18	0/1/1/1
14	FUB	kB	2	14	-	0/2/15/18	0/1/1/1
14	GZL	kB	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	kB	4	14	-	0/2/15/18	0/1/1/1
14	FUB	kC	1	14	-	0/2/15/18	0/1/1/1
14	FUB	kC	2	14	-	0/2/15/18	0/1/1/1
14	GZL	kC	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	kC	4	14	-	0/2/15/18	0/1/1/1
4	FUB	kD	1	4	-	0/2/15/18	0/1/1/1
4	FUB	kD	2	4	-	0/2/15/18	0/1/1/1
4	FUB	kD	3	4	-	0/2/15/18	0/1/1/1
4	AHR	kD	4	4	-	0/2/15/18	0/1/1/1
21	FUB	kE	1	21	-	0/2/15/18	0/1/1/1
21	FUB	kE	2	21	-	0/2/15/18	0/1/1/1
21	GZL	kE	3	21	1/1/4/5	0/6/19/22	0/1/1/1
21	AHR	kE	4	21	1/1/3/4	0/2/15/18	0/1/1/1
21	AHR	kE	5	21	-	0/2/15/18	0/1/1/1
3	FUB	l	1	3	-	0/2/15/18	0/1/1/1
3	FUB	l	2	3	-	0/2/15/18	0/1/1/1
3	FUB	l	3	3	-	0/2/15/18	0/1/1/1
12	FUB	lA	1	12	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	FUB	1A	2	12	-	0/2/15/18	0/1/1/1
12	GZL	1A	3	12	2/2/4/5	2/6/19/22	0/1/1/1
12	AHR	1A	4	12	-	0/2/15/18	0/1/1/1
12	AHR	1A	5	12	-	0/2/15/18	0/1/1/1
12	FUB	1B	1	12	-	0/2/15/18	0/1/1/1
12	FUB	1B	2	12	-	0/2/15/18	0/1/1/1
12	GZL	1B	3	12	2/2/4/5	6/6/19/22	0/1/1/1
12	AHR	1B	4	12	-	0/2/15/18	0/1/1/1
12	AHR	1B	5	12	-	0/2/15/18	0/1/1/1
3	FUB	1C	1	3	-	0/2/15/18	0/1/1/1
3	FUB	1C	2	3	-	0/2/15/18	0/1/1/1
3	FUB	1C	3	3	-	0/2/15/18	0/1/1/1
3	FUB	1D	1	3	-	0/2/15/18	0/1/1/1
3	FUB	1D	2	3	-	0/2/15/18	0/1/1/1
3	FUB	1D	3	3	-	0/2/15/18	0/1/1/1
24	FUB	1E	1	24	-	0/2/15/18	0/1/1/1
24	FUB	1E	2	24	-	0/2/15/18	0/1/1/1
24	GZL	1E	3	24	1/1/4/5	5/6/19/22	0/1/1/1
24	AHR	1E	4	24	1/1/3/4	0/2/15/18	0/1/1/1
24	AHR	1E	5	24	-	0/2/15/18	0/1/1/1
24	AHR	1E	6	24	-	0/2/15/18	0/1/1/1
3	FUB	m	1	3	-	0/2/15/18	0/1/1/1
3	FUB	m	2	3	-	0/2/15/18	0/1/1/1
3	FUB	m	3	3	-	0/2/15/18	0/1/1/1
13	FUB	mA	1	13	-	0/2/15/18	0/1/1/1
13	FUB	mA	2	13	-	0/2/15/18	0/1/1/1
13	GZL	mA	3	13	2/2/4/5	4/6/19/22	0/1/1/1
13	AHR	mA	4	13	-	0/2/15/18	0/1/1/1
4	FUB	mB	1	4	-	0/2/15/18	0/1/1/1
4	FUB	mB	2	4	-	0/2/15/18	0/1/1/1
4	FUB	mB	3	4	-	0/2/15/18	0/1/1/1
4	AHR	mB	4	4	-	0/2/15/18	0/1/1/1
10	FUB	mC	1	10	-	0/2/15/18	0/1/1/1
10	FUB	mC	2	10	-	0/2/15/18	0/1/1/1
10	FUB	mC	3	10	-	0/2/15/18	0/1/1/1
10	AHR	mC	4	10	-	0/2/15/18	0/1/1/1
10	AHR	mC	5	10	-	0/2/15/18	0/1/1/1
3	FUB	mD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	mD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	mD	3	3	-	0/2/15/18	0/1/1/1
6	FUB	mE	1	6	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	FUB	mE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	mE	3	6	1/1/4/5	4/6/19/22	0/1/1/1
12	FUB	n	1	12	-	0/2/15/18	0/1/1/1
12	FUB	n	2	12	-	0/2/15/18	0/1/1/1
12	GZL	n	3	12	2/2/4/5	2/6/19/22	0/1/1/1
12	AHR	n	4	12	-	0/2/15/18	0/1/1/1
12	AHR	n	5	12	-	0/2/15/18	0/1/1/1
14	FUB	nA	1	14	-	0/2/15/18	0/1/1/1
14	FUB	nA	2	14	-	0/2/15/18	0/1/1/1
14	GZL	nA	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	nA	4	14	-	0/2/15/18	0/1/1/1
14	FUB	nB	1	14	-	0/2/15/18	0/1/1/1
14	FUB	nB	2	14	-	0/2/15/18	0/1/1/1
14	GZL	nB	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	nB	4	14	-	0/2/15/18	0/1/1/1
4	FUB	nC	1	4	-	0/2/15/18	0/1/1/1
4	FUB	nC	2	4	-	0/2/15/18	0/1/1/1
4	FUB	nC	3	4	-	0/2/15/18	0/1/1/1
4	AHR	nC	4	4	-	0/2/15/18	0/1/1/1
3	FUB	nD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	nD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	nD	3	3	-	0/2/15/18	0/1/1/1
6	FUB	nE	1	6	-	0/2/15/18	0/1/1/1
6	FUB	nE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	nE	3	6	1/1/4/5	6/6/19/22	0/1/1/1
13	FUB	o	1	13	-	0/2/15/18	0/1/1/1
13	FUB	o	2	13	-	0/2/15/18	0/1/1/1
13	GZL	o	3	13	2/2/4/5	2/6/19/22	0/1/1/1
13	AHR	o	4	13	-	0/2/15/18	0/1/1/1
12	FUB	oA	1	12	-	0/2/15/18	0/1/1/1
12	FUB	oA	2	12	-	0/2/15/18	0/1/1/1
12	GZL	oA	3	12	2/2/4/5	2/6/19/22	0/1/1/1
12	AHR	oA	4	12	-	0/2/15/18	0/1/1/1
12	AHR	oA	5	12	-	0/2/15/18	0/1/1/1
3	FUB	oB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	oB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	oB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	oC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	oC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	oC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	oD	1	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	oD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	oD	3	3	-	0/2/15/18	0/1/1/1
6	FUB	oE	1	6	-	0/2/15/18	0/1/1/1
6	FUB	oE	2	6	-	0/2/15/18	0/1/1/1
6	GZL	oE	3	6	1/1/4/5	4/6/19/22	0/1/1/1
14	FUB	p	1	14	-	0/2/15/18	0/1/1/1
14	FUB	p	2	14	-	0/2/15/18	0/1/1/1
14	GZL	p	3	14	2/2/4/5	6/6/19/22	0/1/1/1
14	FUB	p	4	14	-	0/2/15/18	0/1/1/1
4	FUB	pA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	pA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	pA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	pA	4	4	-	0/2/15/18	0/1/1/1
10	FUB	pB	1	10	-	0/2/15/18	0/1/1/1
10	FUB	pB	2	10	-	0/2/15/18	0/1/1/1
10	FUB	pB	3	10	-	0/2/15/18	0/1/1/1
10	AHR	pB	4	10	-	0/2/15/18	0/1/1/1
10	AHR	pB	5	10	-	0/2/15/18	0/1/1/1
3	FUB	pC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	pC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	pC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	pD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	pD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	pD	3	3	-	0/2/15/18	0/1/1/1
18	FUB	pE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	pE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	pE	3	18	1/1/4/5	4/6/19/22	0/1/1/1
18	AHR	pE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	pE	5	18	-	0/2/15/18	0/1/1/1
12	FUB	q	1	12	-	0/2/15/18	0/1/1/1
12	FUB	q	2	12	-	0/2/15/18	0/1/1/1
12	GZL	q	3	12	2/2/4/5	0/6/19/22	0/1/1/1
12	AHR	q	4	12	-	0/2/15/18	0/1/1/1
12	AHR	q	5	12	1/1/3/4	0/2/15/18	0/1/1/1
14	FUB	qA	1	14	-	0/2/15/18	0/1/1/1
14	FUB	qA	2	14	-	0/2/15/18	0/1/1/1
14	GZL	qA	3	14	2/2/4/5	4/6/19/22	0/1/1/1
14	FUB	qA	4	14	-	0/2/15/18	0/1/1/1
4	FUB	qB	1	4	-	0/2/15/18	0/1/1/1
4	FUB	qB	2	4	-	0/2/15/18	0/1/1/1
4	FUB	qB	3	4	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	AHR	qB	4	4	-	0/2/15/18	0/1/1/1
3	FUB	qC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	qC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	qC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	qD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	qD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	qD	3	3	-	0/2/15/18	0/1/1/1
19	FUB	qE	1	19	-	0/2/15/18	0/1/1/1
19	FUB	qE	2	19	-	0/2/15/18	0/1/1/1
19	GZL	qE	3	19	1/1/4/5	4/6/19/22	0/1/1/1
19	AHR	qE	4	19	-	0/2/15/18	0/1/1/1
4	FUB	r	1	4	-	0/2/15/18	0/1/1/1
4	FUB	r	2	4	-	0/2/15/18	0/1/1/1
4	FUB	r	3	4	-	0/2/15/18	0/1/1/1
4	AHR	r	4	4	-	0/2/15/18	0/1/1/1
3	FUB	rA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	rA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	rA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	rB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	rB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	rB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	rC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	rC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	rC	3	3	-	0/2/15/18	0/1/1/1
3	FUB	rD	1	3	-	0/2/15/18	0/1/1/1
3	FUB	rD	2	3	-	0/2/15/18	0/1/1/1
3	FUB	rD	3	3	-	0/2/15/18	0/1/1/1
18	FUB	rE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	rE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	rE	3	18	1/1/4/5	3/6/19/22	0/1/1/1
18	AHR	rE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	rE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
14	FUB	s	1	14	-	0/2/15/18	0/1/1/1
14	FUB	s	2	14	-	0/2/15/18	0/1/1/1
14	GZL	s	3	14	2/2/4/5	4/6/19/22	0/1/1/1
14	FUB	s	4	14	-	0/2/15/18	0/1/1/1
10	FUB	sA	1	10	-	0/2/15/18	0/1/1/1
10	FUB	sA	2	10	-	0/2/15/18	0/1/1/1
10	FUB	sA	3	10	-	0/2/15/18	0/1/1/1
10	AHR	sA	4	10	-	0/2/15/18	0/1/1/1
10	AHR	sA	5	10	-	0/2/15/18	0/1/1/1
3	FUB	sB	1	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	sB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	sB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	sC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	sC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	sC	3	3	-	0/2/15/18	0/1/1/1
10	FUB	sD	1	10	-	0/2/15/18	0/1/1/1
10	FUB	sD	2	10	-	0/2/15/18	0/1/1/1
10	FUB	sD	3	10	-	0/2/15/18	0/1/1/1
10	AHR	sD	4	10	1/1/3/4	0/2/15/18	0/1/1/1
10	AHR	sD	5	10	-	0/2/15/18	0/1/1/1
20	FUB	sE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	sE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	sE	3	20	1/1/4/5	6/6/19/22	0/1/1/1
20	AHR	sE	4	20	-	0/2/15/18	0/1/1/1
3	FUB	t	1	3	-	0/2/15/18	0/1/1/1
3	FUB	t	2	3	-	0/2/15/18	0/1/1/1
3	FUB	t	3	3	-	0/2/15/18	0/1/1/1
4	FUB	tA	1	4	-	0/2/15/18	0/1/1/1
4	FUB	tA	2	4	-	0/2/15/18	0/1/1/1
4	FUB	tA	3	4	-	0/2/15/18	0/1/1/1
4	AHR	tA	4	4	-	0/2/15/18	0/1/1/1
3	FUB	tB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	tB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	tB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	tC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	tC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	tC	3	3	-	0/2/15/18	0/1/1/1
13	FUB	tD	1	13	-	0/2/15/18	0/1/1/1
13	FUB	tD	2	13	-	0/2/15/18	0/1/1/1
13	GZL	tD	3	13	3/3/4/5	0/6/19/22	0/1/1/1
13	AHR	tD	4	13	-	0/2/15/18	0/1/1/1
18	FUB	tE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	tE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	tE	3	18	1/1/4/5	2/6/19/22	0/1/1/1
18	AHR	tE	4	18	-	0/2/15/18	0/1/1/1
18	AHR	tE	5	18	1/1/3/4	0/2/15/18	0/1/1/1
10	FUB	u	1	10	-	0/2/15/18	0/1/1/1
10	FUB	u	2	10	-	0/2/15/18	0/1/1/1
10	FUB	u	3	10	-	0/2/15/18	0/1/1/1
10	AHR	u	4	10	-	0/2/15/18	0/1/1/1
10	AHR	u	5	10	-	0/2/15/18	0/1/1/1
3	FUB	uA	1	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	uA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	uA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	uB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	uB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	uB	3	3	-	0/2/15/18	0/1/1/1
3	FUB	uC	1	3	-	0/2/15/18	0/1/1/1
3	FUB	uC	2	3	-	0/2/15/18	0/1/1/1
3	FUB	uC	3	3	-	0/2/15/18	0/1/1/1
6	FUB	uD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	uD	2	6	-	0/2/15/18	0/1/1/1
6	GZL	uD	3	6	2/2/4/5	6/6/19/22	0/1/1/1
20	FUB	uE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	uE	2	20	-	0/2/15/18	0/1/1/1
20	GZL	uE	3	20	1/1/4/5	4/6/19/22	0/1/1/1
20	AHR	uE	4	20	-	0/2/15/18	0/1/1/1
4	FUB	v	1	4	-	0/2/15/18	0/1/1/1
4	FUB	v	2	4	-	0/2/15/18	0/1/1/1
4	FUB	v	3	4	-	0/2/15/18	0/1/1/1
4	AHR	v	4	4	-	0/2/15/18	0/1/1/1
3	FUB	vA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	vA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	vA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	vB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	vB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	vB	3	3	-	0/2/15/18	0/1/1/1
10	FUB	vC	1	10	-	0/2/15/18	0/1/1/1
10	FUB	vC	2	10	-	0/2/15/18	0/1/1/1
10	FUB	vC	3	10	-	0/2/15/18	0/1/1/1
10	AHR	vC	4	10	1/1/3/4	0/2/15/18	0/1/1/1
10	AHR	vC	5	10	-	0/2/15/18	0/1/1/1
13	FUB	vD	1	13	-	0/2/15/18	0/1/1/1
13	FUB	vD	2	13	-	0/2/15/18	0/1/1/1
13	GZL	vD	3	13	1/1/4/5	4/6/19/22	0/1/1/1
13	AHR	vD	4	13	-	0/2/15/18	0/1/1/1
21	FUB	vE	1	21	-	0/2/15/18	0/1/1/1
21	FUB	vE	2	21	-	0/2/15/18	0/1/1/1
21	GZL	vE	3	21	1/1/4/5	4/6/19/22	0/1/1/1
21	AHR	vE	4	21	1/1/3/4	0/2/15/18	0/1/1/1
21	AHR	vE	5	21	2/2/3/4	0/2/15/18	0/1/1/1
3	FUB	w	1	3	-	0/2/15/18	0/1/1/1
3	FUB	w	2	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	w	3	3	-	0/2/15/18	0/1/1/1
3	FUB	wA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	wA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	wA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	wB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	wB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	wB	3	3	-	0/2/15/18	0/1/1/1
13	FUB	wC	1	13	-	0/2/15/18	0/1/1/1
13	FUB	wC	2	13	-	0/2/15/18	0/1/1/1
13	GZL	wC	3	13	3/3/4/5	1/6/19/22	0/1/1/1
13	AHR	wC	4	13	-	0/2/15/18	0/1/1/1
13	FUB	wD	1	13	-	0/2/15/18	0/1/1/1
13	FUB	wD	2	13	-	0/2/15/18	0/1/1/1
13	GZL	wD	3	13	1/1/4/5	6/6/19/22	0/1/1/1
13	AHR	wD	4	13	-	0/2/15/18	0/1/1/1
22	FUB	wE	1	22	-	0/2/15/18	0/1/1/1
22	FUB	wE	2	22	-	0/2/15/18	0/1/1/1
22	GZL	wE	3	22	1/1/4/5	2/6/19/22	0/1/1/1
22	AHR	wE	4	22	-	0/2/15/18	0/1/1/1
22	AHR	wE	5	22	-	0/2/15/18	0/1/1/1
22	AHR	wE	6	22	-	0/2/15/18	0/1/1/1
3	FUB	x	1	3	-	0/2/15/18	0/1/1/1
3	FUB	x	2	3	-	0/2/15/18	0/1/1/1
3	FUB	x	3	3	-	0/2/15/18	0/1/1/1
3	FUB	xA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	xA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	xA	3	3	-	0/2/15/18	0/1/1/1
3	FUB	xB	1	3	-	0/2/15/18	0/1/1/1
3	FUB	xB	2	3	-	0/2/15/18	0/1/1/1
3	FUB	xB	3	3	-	0/2/15/18	0/1/1/1
6	FUB	xC	1	6	-	0/2/15/18	0/1/1/1
6	FUB	xC	2	6	-	0/2/15/18	0/1/1/1
6	GZL	xC	3	6	2/2/4/5	5/6/19/22	0/1/1/1
6	FUB	xD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	xD	2	6	-	0/2/15/18	0/1/1/1
6	GZL	xD	3	6	-	6/6/19/22	0/1/1/1
20	FUB	xE	1	20	-	0/2/15/18	0/1/1/1
20	FUB	xE	2	20	-	2/2/15/18	0/1/1/1
20	GZL	xE	3	20	1/1/4/5	6/6/19/22	0/1/1/1
20	AHR	xE	4	20	-	0/2/15/18	0/1/1/1
3	FUB	y	1	3	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FUB	y	2	3	-	0/2/15/18	0/1/1/1
3	FUB	y	3	3	-	0/2/15/18	0/1/1/1
3	FUB	yA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	yA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	yA	3	3	-	0/2/15/18	0/1/1/1
10	FUB	yB	1	10	-	0/2/15/18	0/1/1/1
10	FUB	yB	2	10	-	0/2/15/18	0/1/1/1
10	FUB	yB	3	10	-	0/2/15/18	0/1/1/1
10	AHR	yB	4	10	1/1/3/4	0/2/15/18	0/1/1/1
10	AHR	yB	5	10	-	0/2/15/18	0/1/1/1
13	FUB	yC	1	13	-	0/2/15/18	0/1/1/1
13	FUB	yC	2	13	-	0/2/15/18	0/1/1/1
13	GZL	yC	3	13	1/1/4/5	2/6/19/22	0/1/1/1
13	AHR	yC	4	13	-	0/2/15/18	0/1/1/1
6	FUB	yD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	yD	2	6	-	0/2/15/18	0/1/1/1
6	GZL	yD	3	6	1/1/4/5	2/6/19/22	0/1/1/1
18	FUB	yE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	yE	2	18	-	0/2/15/18	0/1/1/1
18	GZL	yE	3	18	1/1/4/5	6/6/19/22	0/1/1/1
18	AHR	yE	4	18	1/1/3/4	0/2/15/18	0/1/1/1
18	AHR	yE	5	18	-	0/2/15/18	0/1/1/1
3	FUB	z	1	3	-	0/2/15/18	0/1/1/1
3	FUB	z	2	3	-	0/2/15/18	0/1/1/1
3	FUB	z	3	3	-	0/2/15/18	0/1/1/1
3	FUB	zA	1	3	-	0/2/15/18	0/1/1/1
3	FUB	zA	2	3	-	0/2/15/18	0/1/1/1
3	FUB	zA	3	3	-	0/2/15/18	0/1/1/1
13	FUB	zB	1	13	-	0/2/15/18	0/1/1/1
13	FUB	zB	2	13	-	0/2/15/18	0/1/1/1
13	GZL	zB	3	13	3/3/4/5	2/6/19/22	0/1/1/1
13	AHR	zB	4	13	-	0/2/15/18	0/1/1/1
13	FUB	zC	1	13	-	0/2/15/18	0/1/1/1
13	FUB	zC	2	13	-	0/2/15/18	0/1/1/1
13	GZL	zC	3	13	1/1/4/5	6/6/19/22	0/1/1/1
13	AHR	zC	4	13	-	0/2/15/18	0/1/1/1
6	FUB	zD	1	6	-	0/2/15/18	0/1/1/1
6	FUB	zD	2	6	1/1/3/4	0/2/15/18	0/1/1/1
6	GZL	zD	3	6	1/1/4/5	2/6/19/22	0/1/1/1
18	FUB	zE	1	18	-	0/2/15/18	0/1/1/1
18	FUB	zE	2	18	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	GZL	zE	3	18	1/1/4/5	6/6/19/22	0/1/1/1
18	AHR	zE	4	18	-	0/2/15/18	0/1/1/1
18	AHR	zE	5	18	1/1/3/4	0/2/15/18	0/1/1/1

All (1123) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	CD	3	GZL	C2-C3	-19.62	1.22	1.53
6	LA	3	GZL	C2-C3	-19.56	1.22	1.53
6	uD	3	GZL	C2-C3	-19.38	1.22	1.53
6	xC	3	GZL	C2-C3	-19.37	1.22	1.53
6	XB	3	GZL	C2-C3	-19.34	1.22	1.53
13	4	3	GZL	C2-C3	-19.24	1.22	1.53
6	0B	3	GZL	C2-C3	-19.24	1.22	1.53
6	3A	3	GZL	C2-C3	-19.11	1.22	1.53
13	6	3	GZL	C2-C3	-18.94	1.23	1.53
13	wC	3	GZL	C2-C3	-18.88	1.23	1.53
13	YB	3	GZL	C2-C3	-18.87	1.23	1.53
13	4A	3	GZL	C2-C3	-18.86	1.23	1.53
6	5	3	GZL	C2-C3	-18.85	1.23	1.53
13	WB	3	GZL	C2-C3	-18.84	1.23	1.53
18	rE	3	GZL	C2-C3	-18.79	1.23	1.53
21	FE	3	GZL	C2-C3	-18.79	1.23	1.53
13	mA	3	GZL	C2-C3	-18.78	1.23	1.53
6	bE	3	GZL	C2-C3	-18.78	1.23	1.53
13	dB	3	GZL	C2-C3	-18.78	1.23	1.53
13	1B	3	GZL	C2-C3	-18.77	1.23	1.53
12	oA	3	GZL	C2-C3	-18.77	1.23	1.53
15	BB	3	GZL	C2-C3	-18.76	1.23	1.53
18	9D	3	GZL	C2-C3	-18.76	1.23	1.53
15	DA	3	GZL	C2-C3	-18.76	1.23	1.53
22	wE	3	GZL	C2-C3	-18.76	1.23	1.53
15	eB	3	GZL	C2-C3	-18.75	1.23	1.53
18	SE	3	GZL	C2-C3	-18.75	1.23	1.53
20	UE	3	GZL	C2-C3	-18.74	1.23	1.53
22	iE	3	GZL	C2-C3	-18.74	1.23	1.53
13	o	3	GZL	C2-C3	-18.74	1.23	1.53
18	PE	3	GZL	C2-C3	-18.74	1.23	1.53
6	OE	3	GZL	C2-C3	-18.73	1.23	1.53
15	fB	3	GZL	C2-C3	-18.73	1.23	1.53
6	9	3	GZL	C2-C3	-18.73	1.23	1.53
6	5B	3	GZL	C2-C3	-18.72	1.23	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	CA	3	GZL	C2-C3	-18.72	1.23	1.53
6	yD	3	GZL	C2-C3	-18.71	1.23	1.53
13	gC	3	GZL	C2-C3	-18.71	1.23	1.53
22	RE	3	GZL	C2-C3	-18.70	1.23	1.53
6	FC	3	GZL	C2-C3	-18.70	1.23	1.53
13	zB	3	GZL	C2-C3	-18.70	1.23	1.53
22	QE	3	GZL	C2-C3	-18.70	1.23	1.53
6	7D	3	GZL	C2-C3	-18.70	1.23	1.53
20	HE	3	GZL	C2-C3	-18.69	1.23	1.53
12	fC	3	GZL	C2-C3	-18.69	1.23	1.53
13	tD	3	GZL	C2-C3	-18.69	1.23	1.53
6	ME	3	GZL	C2-C3	-18.69	1.23	1.53
22	eE	3	GZL	C2-C3	-18.69	1.23	1.53
6	cB	3	GZL	C2-C3	-18.69	1.23	1.53
6	AA	3	GZL	C2-C3	-18.69	1.23	1.53
15	8B	3	GZL	C2-C3	-18.69	1.23	1.53
18	fE	3	GZL	C2-C3	-18.68	1.23	1.53
15	7B	3	GZL	C2-C3	-18.68	1.23	1.53
15	2D	3	GZL	C2-C3	-18.68	1.23	1.53
20	sE	3	GZL	C2-C3	-18.68	1.23	1.53
21	kE	3	GZL	C2-C3	-18.67	1.23	1.53
15	1D	3	GZL	C2-C3	-18.67	1.23	1.53
22	VE	3	GZL	C2-C3	-18.66	1.23	1.53
6	6A	3	GZL	C2-C3	-18.66	1.23	1.53
6	8A	3	GZL	C2-C3	-18.66	1.23	1.53
15	4C	3	GZL	C2-C3	-18.65	1.23	1.53
18	cE	3	GZL	C2-C3	-18.65	1.23	1.53
13	9A	3	GZL	C2-C3	-18.64	1.23	1.53
13	7	3	GZL	C2-C3	-18.64	1.23	1.53
12	q	3	GZL	C2-C3	-18.64	1.23	1.53
15	AB	3	GZL	C2-C3	-18.64	1.23	1.53
18	0E	3	GZL	C2-C3	-18.64	1.23	1.53
23	XE	3	GZL	C2-C3	-18.64	1.23	1.53
24	YE	3	GZL	C2-C3	-18.64	1.23	1.53
20	WE	3	GZL	C2-C3	-18.64	1.23	1.53
19	AE	3	GZL	C2-C3	-18.64	1.23	1.53
6	JC	3	GZL	C2-C3	-18.64	1.23	1.53
13	GB	3	GZL	C2-C3	-18.64	1.23	1.53
19	LE	3	GZL	C2-C3	-18.63	1.23	1.53
20	TE	3	GZL	C2-C3	-18.63	1.23	1.53
6	R	3	GZL	C2-C3	-18.63	1.23	1.53
20	EE	3	GZL	C2-C3	-18.63	1.23	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	GE	3	GZL	C2-C3	-18.63	1.23	1.53
20	gE	3	GZL	C2-C3	-18.63	1.23	1.53
14	qA	3	GZL	C2-C3	-18.62	1.23	1.53
6	8D	3	GZL	C2-C3	-18.62	1.23	1.53
12	lA	3	GZL	C2-C3	-18.62	1.23	1.53
21	vE	3	GZL	C2-C3	-18.62	1.23	1.53
19	NE	3	GZL	C2-C3	-18.61	1.23	1.53
13	2A	3	GZL	C2-C3	-18.61	1.23	1.53
22	dE	3	GZL	C2-C3	-18.61	1.23	1.53
6	8	3	GZL	C2-C3	-18.61	1.23	1.53
6	1C	3	GZL	C2-C3	-18.61	1.23	1.53
6	EA	3	GZL	C2-C3	-18.60	1.23	1.53
19	1E	3	GZL	C2-C3	-18.60	1.23	1.53
13	ZB	3	GZL	C2-C3	-18.60	1.23	1.53
6	zD	3	GZL	C2-C3	-18.60	1.23	1.53
20	uE	3	GZL	C2-C3	-18.60	1.23	1.53
13	jB	3	GZL	C2-C3	-18.60	1.23	1.53
6	bB	3	GZL	C2-C3	-18.59	1.23	1.53
6	mE	3	GZL	C2-C3	-18.59	1.23	1.53
12	cD	3	GZL	C2-C3	-18.59	1.23	1.53
18	tE	3	GZL	C2-C3	-18.59	1.23	1.53
18	DE	3	GZL	C2-C3	-18.59	1.23	1.53
20	CE	3	GZL	C2-C3	-18.58	1.23	1.53
6	aB	3	GZL	C2-C3	-18.58	1.23	1.53
6	7A	3	GZL	C2-C3	-18.58	1.23	1.53
12	n	3	GZL	C2-C3	-18.57	1.23	1.53
13	6B	3	GZL	C2-C3	-18.57	1.23	1.53
6	PA	3	GZL	C2-C3	-18.57	1.23	1.53
13	dD	3	GZL	C2-C3	-18.56	1.23	1.53
19	qE	3	GZL	C2-C3	-18.56	1.23	1.53
20	xE	3	GZL	C2-C3	-18.56	1.23	1.53
6	GD	3	GZL	C2-C3	-18.56	1.23	1.53
18	pE	3	GZL	C2-C3	-18.56	1.23	1.53
12	lB	3	GZL	C2-C3	-18.55	1.23	1.53
6	6C	3	GZL	C2-C3	-18.55	1.23	1.53
6	CB	3	GZL	C2-C3	-18.55	1.23	1.53
13	5A	3	GZL	C2-C3	-18.55	1.23	1.53
20	hE	3	GZL	C2-C3	-18.55	1.23	1.53
20	jE	3	GZL	C2-C3	-18.55	1.23	1.53
14	nA	3	GZL	C2-C3	-18.54	1.23	1.53
12	IB	3	GZL	C2-C3	-18.54	1.23	1.53
13	vD	3	GZL	C2-C3	-18.54	1.23	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	5C	3	GZL	C2-C3	-18.53	1.23	1.53
13	wD	3	GZL	C2-C3	-18.52	1.23	1.53
6	3D	3	GZL	C2-C3	-18.51	1.23	1.53
6	4B	3	GZL	C2-C3	-18.51	1.23	1.53
12	fD	3	GZL	C2-C3	-18.51	1.23	1.53
13	2B	3	GZL	C2-C3	-18.51	1.23	1.53
24	lE	3	GZL	C2-C3	-18.50	1.23	1.53
18	JE	3	GZL	C2-C3	-18.50	1.23	1.53
18	BE	3	GZL	C2-C3	-18.49	1.23	1.53
13	0D	3	GZL	C2-C3	-18.48	1.23	1.53
6	2C	3	GZL	C2-C3	-18.48	1.23	1.53
18	IE	3	GZL	C2-C3	-18.48	1.23	1.53
6	gB	3	GZL	C2-C3	-18.47	1.23	1.53
13	BA	3	GZL	C2-C3	-18.47	1.23	1.53
13	zC	3	GZL	C2-C3	-18.47	1.23	1.53
14	s	3	GZL	C2-C3	-18.46	1.23	1.53
6	nE	3	GZL	C2-C3	-18.44	1.23	1.53
18	KE	3	GZL	C2-C3	-18.43	1.23	1.53
14	p	3	GZL	C2-C3	-18.43	1.23	1.53
19	aE	3	GZL	C2-C3	-18.42	1.24	1.53
13	3C	3	GZL	C2-C3	-18.42	1.24	1.53
13	yC	3	GZL	C2-C3	-18.42	1.24	1.53
12	iB	3	GZL	C2-C3	-18.41	1.24	1.53
6	ZE	3	GZL	C2-C3	-18.41	1.24	1.53
14	hC	3	GZL	C2-C3	-18.41	1.24	1.53
6	6D	3	GZL	C2-C3	-18.41	1.24	1.53
12	iC	3	GZL	C2-C3	-18.40	1.24	1.53
6	oE	3	GZL	C2-C3	-18.40	1.24	1.53
14	eD	3	GZL	C2-C3	-18.40	1.24	1.53
6	9B	3	GZL	C2-C3	-18.38	1.24	1.53
6	0C	3	GZL	C2-C3	-18.37	1.24	1.53
6	3B	3	GZL	C2-C3	-18.34	1.24	1.53
14	nB	3	GZL	C2-C3	-18.32	1.24	1.53
14	kC	3	GZL	C2-C3	-18.30	1.24	1.53
18	zE	3	GZL	C2-C3	-18.28	1.24	1.53
14	HB	3	GZL	C2-C3	-18.26	1.24	1.53
18	yE	3	GZL	C2-C3	-18.25	1.24	1.53
12	FB	3	GZL	C2-C3	-18.21	1.24	1.53
14	kB	3	GZL	C2-C3	-18.20	1.24	1.53
14	KB	3	GZL	C2-C3	-18.18	1.24	1.53
6	xD	3	GZL	C2-C3	-18.15	1.24	1.53
14	hD	3	GZL	C2-C3	-18.13	1.24	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	3	GZL	C2-C3	-17.88	1.24	1.53
6	CD	3	GZL	O4-C4	-7.94	1.26	1.43
6	LA	3	GZL	O4-C4	-7.81	1.26	1.43
6	3A	3	GZL	O4-C4	-7.79	1.26	1.43
6	0B	3	GZL	O4-C4	-7.74	1.26	1.43
6	XB	3	GZL	O4-C4	-7.70	1.26	1.43
6	uD	3	GZL	O4-C4	-7.69	1.26	1.43
6	xC	3	GZL	O4-C4	-7.64	1.26	1.43
6	N	3	GZL	O4-C4	-7.38	1.27	1.43
13	2A	3	GZL	O4-C4	-7.37	1.27	1.43
14	hC	3	GZL	O4-C4	-7.29	1.27	1.43
18	BE	3	GZL	O4-C4	-7.28	1.27	1.43
6	3B	3	GZL	O4-C4	-7.28	1.27	1.43
14	nA	3	GZL	O4-C4	-7.27	1.27	1.43
14	p	3	GZL	O4-C4	-7.27	1.27	1.43
6	oE	3	GZL	O4-C4	-7.26	1.27	1.43
6	8D	3	GZL	O4-C4	-7.26	1.27	1.43
22	QE	3	GZL	O4-C4	-7.25	1.27	1.43
14	eD	3	GZL	O4-C4	-7.24	1.27	1.43
6	EA	3	GZL	O4-C4	-7.23	1.27	1.43
14	s	3	GZL	O4-C4	-7.23	1.27	1.43
6	8A	3	GZL	O4-C4	-7.23	1.27	1.43
6	9B	3	GZL	O4-C4	-7.22	1.27	1.43
13	tD	3	GZL	O4-C4	-7.22	1.27	1.43
15	7B	3	GZL	O4-C4	-7.22	1.27	1.43
6	CB	3	GZL	O4-C4	-7.22	1.27	1.43
14	qA	3	GZL	O4-C4	-7.21	1.27	1.43
6	PA	3	GZL	O4-C4	-7.21	1.27	1.43
6	xD	3	GZL	O4-C4	-7.21	1.27	1.43
22	RE	3	GZL	O4-C4	-7.21	1.27	1.43
14	kB	3	GZL	O4-C4	-7.20	1.27	1.43
6	4B	3	GZL	O4-C4	-7.20	1.27	1.43
20	TE	3	GZL	O4-C4	-7.20	1.27	1.43
24	lE	3	GZL	O4-C4	-7.20	1.27	1.43
6	gB	3	GZL	O4-C4	-7.19	1.27	1.43
14	KB	3	GZL	O4-C4	-7.19	1.27	1.43
21	vE	3	GZL	O4-C4	-7.19	1.27	1.43
12	FB	3	GZL	O4-C4	-7.19	1.27	1.43
14	HB	3	GZL	O4-C4	-7.18	1.27	1.43
6	GD	3	GZL	O4-C4	-7.18	1.27	1.43
13	4	3	GZL	O4-C4	-7.18	1.27	1.43
22	eE	3	GZL	O4-C4	-7.18	1.27	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	AB	3	GZL	O4-C4	-7.18	1.27	1.43
14	hD	3	GZL	O4-C4	-7.18	1.27	1.43
20	UE	3	GZL	O4-C4	-7.18	1.27	1.43
14	nB	3	GZL	O4-C4	-7.18	1.27	1.43
22	dE	3	GZL	O4-C4	-7.17	1.27	1.43
14	kC	3	GZL	O4-C4	-7.17	1.27	1.43
18	SE	3	GZL	O4-C4	-7.17	1.27	1.43
6	ZE	3	GZL	O4-C4	-7.16	1.27	1.43
12	iB	3	GZL	O4-C4	-7.16	1.27	1.43
13	2B	3	GZL	O4-C4	-7.16	1.27	1.43
6	mE	3	GZL	O4-C4	-7.16	1.27	1.43
19	qE	3	GZL	O4-C4	-7.16	1.27	1.43
6	cB	3	GZL	O4-C4	-7.16	1.27	1.43
20	gE	3	GZL	O4-C4	-7.16	1.27	1.43
23	XE	3	GZL	O4-C4	-7.15	1.27	1.43
15	CA	3	GZL	O4-C4	-7.15	1.27	1.43
21	kE	3	GZL	O4-C4	-7.15	1.27	1.43
19	AE	3	GZL	O4-C4	-7.15	1.27	1.43
6	0C	3	GZL	O4-C4	-7.15	1.27	1.43
20	WE	3	GZL	O4-C4	-7.14	1.27	1.43
6	9	3	GZL	O4-C4	-7.14	1.27	1.43
20	hE	3	GZL	O4-C4	-7.13	1.27	1.43
13	BA	3	GZL	O4-C4	-7.13	1.27	1.43
15	eB	3	GZL	O4-C4	-7.13	1.27	1.43
20	jE	3	GZL	O4-C4	-7.13	1.27	1.43
6	JC	3	GZL	O4-C4	-7.13	1.27	1.43
12	n	3	GZL	O4-C4	-7.13	1.27	1.43
13	o	3	GZL	O4-C4	-7.13	1.27	1.43
13	6	3	GZL	O4-C4	-7.13	1.27	1.43
6	3D	3	GZL	O4-C4	-7.13	1.27	1.43
20	EE	3	GZL	O4-C4	-7.12	1.27	1.43
6	7A	3	GZL	O4-C4	-7.12	1.27	1.43
18	PE	3	GZL	O4-C4	-7.12	1.27	1.43
21	FE	3	GZL	O4-C4	-7.12	1.27	1.43
6	8	3	GZL	O4-C4	-7.12	1.27	1.43
6	R	3	GZL	O4-C4	-7.12	1.27	1.43
18	IE	3	GZL	O4-C4	-7.11	1.27	1.43
6	bE	3	GZL	O4-C4	-7.11	1.27	1.43
18	yE	3	GZL	O4-C4	-7.11	1.27	1.43
6	AA	3	GZL	O4-C4	-7.11	1.27	1.43
12	iC	3	GZL	O4-C4	-7.11	1.27	1.43
13	4A	3	GZL	O4-C4	-7.10	1.27	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6D	3	GZL	O4-C4	-7.10	1.27	1.43
13	wD	3	GZL	O4-C4	-7.10	1.27	1.43
18	zE	3	GZL	O4-C4	-7.10	1.27	1.43
13	jB	3	GZL	O4-C4	-7.10	1.28	1.43
15	DA	3	GZL	O4-C4	-7.10	1.28	1.43
13	mA	3	GZL	O4-C4	-7.09	1.28	1.43
13	5A	3	GZL	O4-C4	-7.09	1.28	1.43
24	YE	3	GZL	O4-C4	-7.09	1.28	1.43
6	ME	3	GZL	O4-C4	-7.09	1.28	1.43
15	BB	3	GZL	O4-C4	-7.08	1.28	1.43
22	VE	3	GZL	O4-C4	-7.08	1.28	1.43
13	wC	3	GZL	O4-C4	-7.08	1.28	1.43
13	yC	3	GZL	O4-C4	-7.08	1.28	1.43
20	CE	3	GZL	O4-C4	-7.07	1.28	1.43
6	bB	3	GZL	O4-C4	-7.07	1.28	1.43
15	8B	3	GZL	O4-C4	-7.07	1.28	1.43
12	oA	3	GZL	O4-C4	-7.07	1.28	1.43
13	ZB	3	GZL	O4-C4	-7.07	1.28	1.43
20	uE	3	GZL	O4-C4	-7.07	1.28	1.43
19	LE	3	GZL	O4-C4	-7.06	1.28	1.43
12	fC	3	GZL	O4-C4	-7.06	1.28	1.43
18	pE	3	GZL	O4-C4	-7.05	1.28	1.43
13	zC	3	GZL	O4-C4	-7.05	1.28	1.43
6	2C	3	GZL	O4-C4	-7.05	1.28	1.43
6	5B	3	GZL	O4-C4	-7.05	1.28	1.43
6	OE	3	GZL	O4-C4	-7.05	1.28	1.43
20	sE	3	GZL	O4-C4	-7.04	1.28	1.43
22	wE	3	GZL	O4-C4	-7.04	1.28	1.43
19	NE	3	GZL	O4-C4	-7.04	1.28	1.43
13	dD	3	GZL	O4-C4	-7.04	1.28	1.43
12	q	3	GZL	O4-C4	-7.04	1.28	1.43
12	lA	3	GZL	O4-C4	-7.04	1.28	1.43
18	rE	3	GZL	O4-C4	-7.03	1.28	1.43
20	HE	3	GZL	O4-C4	-7.03	1.28	1.43
15	fB	3	GZL	O4-C4	-7.03	1.28	1.43
13	lB	3	GZL	O4-C4	-7.03	1.28	1.43
6	6C	3	GZL	O4-C4	-7.03	1.28	1.43
13	9A	3	GZL	C3-C4	7.03	1.68	1.52
18	JE	3	GZL	O4-C4	-7.02	1.28	1.43
15	5C	3	GZL	O4-C4	-7.02	1.28	1.43
13	zB	3	GZL	O4-C4	-7.02	1.28	1.43
19	lE	3	GZL	O4-C4	-7.01	1.28	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	7	3	GZL	O4-C4	-7.01	1.28	1.43
13	gC	3	GZL	O4-C4	-7.01	1.28	1.43
20	xE	3	GZL	O4-C4	-7.01	1.28	1.43
6	nE	3	GZL	O4-C4	-7.01	1.28	1.43
18	DE	3	GZL	O4-C4	-7.00	1.28	1.43
22	GE	3	GZL	O4-C4	-7.00	1.28	1.43
22	iE	3	GZL	O4-C4	-7.00	1.28	1.43
6	zD	3	GZL	O4-C4	-7.00	1.28	1.43
12	IB	3	GZL	O4-C4	-7.00	1.28	1.43
18	KE	3	GZL	O4-C4	-7.00	1.28	1.43
19	aE	3	GZL	O4-C4	-7.00	1.28	1.43
18	cE	3	GZL	O4-C4	-7.00	1.28	1.43
18	tE	3	GZL	O4-C4	-7.00	1.28	1.43
18	0E	3	GZL	O4-C4	-6.99	1.28	1.43
18	9D	3	GZL	O4-C4	-6.98	1.28	1.43
6	1C	3	GZL	O4-C4	-6.98	1.28	1.43
12	fD	3	GZL	O4-C4	-6.98	1.28	1.43
15	4C	3	GZL	O4-C4	-6.98	1.28	1.43
12	cD	3	GZL	O4-C4	-6.97	1.28	1.43
13	YB	3	GZL	O4-C4	-6.97	1.28	1.43
6	aB	3	GZL	O4-C4	-6.97	1.28	1.43
13	WB	3	GZL	O4-C4	-6.97	1.28	1.43
15	1D	3	GZL	O4-C4	-6.97	1.28	1.43
6	6A	3	GZL	O4-C4	-6.96	1.28	1.43
13	dB	3	GZL	C3-C4	6.96	1.68	1.52
18	fE	3	GZL	O4-C4	-6.96	1.28	1.43
13	BA	3	GZL	C3-C4	6.96	1.68	1.52
13	GB	3	GZL	O4-C4	-6.95	1.28	1.43
15	2D	3	GZL	O4-C4	-6.94	1.28	1.43
6	yD	3	GZL	O4-C4	-6.93	1.28	1.43
13	6B	3	GZL	O4-C4	-6.93	1.28	1.43
13	9A	3	GZL	O4-C4	-6.93	1.28	1.43
13	0D	3	GZL	O4-C4	-6.93	1.28	1.43
6	5	3	GZL	O4-C4	-6.92	1.28	1.43
13	6B	3	GZL	C3-C4	6.92	1.68	1.52
13	3C	3	GZL	O4-C4	-6.92	1.28	1.43
13	dB	3	GZL	O4-C4	-6.91	1.28	1.43
6	7D	3	GZL	O4-C4	-6.91	1.28	1.43
13	vD	3	GZL	O4-C4	-6.91	1.28	1.43
12	lB	3	GZL	O4-C4	-6.90	1.28	1.43
13	2A	3	GZL	C3-C4	6.81	1.68	1.52
13	3C	3	GZL	C3-C4	6.78	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	0D	3	GZL	C3-C4	6.74	1.68	1.52
6	nE	3	GZL	C3-C4	6.70	1.67	1.52
18	0E	3	GZL	C3-C4	6.67	1.67	1.52
13	wC	3	GZL	C3-C4	6.67	1.67	1.52
18	zE	3	GZL	C3-C4	6.66	1.67	1.52
14	hD	3	GZL	C3-C4	6.66	1.67	1.52
18	KE	3	GZL	C3-C4	6.63	1.67	1.52
15	2D	3	GZL	C3-C4	6.63	1.67	1.52
18	JE	3	GZL	C3-C4	6.62	1.67	1.52
13	vD	3	GZL	C3-C4	6.60	1.67	1.52
12	cD	3	GZL	C3-C4	6.59	1.67	1.52
6	1C	3	GZL	C3-C4	6.58	1.67	1.52
6	7D	3	GZL	C3-C4	6.58	1.67	1.52
13	7	3	GZL	C3-C4	6.57	1.67	1.52
18	9D	3	GZL	C3-C4	6.57	1.67	1.52
19	1E	3	GZL	C3-C4	6.57	1.67	1.52
13	ZB	3	GZL	C3-C4	6.57	1.67	1.52
13	5A	3	GZL	C3-C4	6.56	1.67	1.52
19	aE	3	GZL	C3-C4	6.56	1.67	1.52
18	yE	3	GZL	C3-C4	6.56	1.67	1.52
20	sE	3	GZL	C3-C4	6.56	1.67	1.52
18	tE	3	GZL	C3-C4	6.55	1.67	1.52
6	FC	3	GZL	O4-C4	-6.54	1.29	1.43
13	zB	3	GZL	C3-C4	6.54	1.67	1.52
14	kB	3	GZL	C3-C4	6.54	1.67	1.52
20	xE	3	GZL	C3-C4	6.54	1.67	1.52
13	WB	3	GZL	C3-C4	6.53	1.67	1.52
12	FB	3	GZL	C3-C4	6.53	1.67	1.52
6	aB	3	GZL	C3-C4	6.53	1.67	1.52
18	rE	3	GZL	C3-C4	6.52	1.67	1.52
18	IE	3	GZL	C3-C4	6.51	1.67	1.52
13	tD	3	GZL	C3-C4	6.51	1.67	1.52
13	zC	3	GZL	C3-C4	6.51	1.67	1.52
12	lB	3	GZL	C3-C4	6.50	1.67	1.52
13	yC	3	GZL	C3-C4	6.50	1.67	1.52
15	8B	3	GZL	C3-C4	6.50	1.67	1.52
6	2C	3	GZL	C3-C4	6.50	1.67	1.52
15	5C	3	GZL	C3-C4	6.49	1.67	1.52
19	NE	3	GZL	C3-C4	6.49	1.67	1.52
6	xD	3	GZL	C3-C4	6.49	1.67	1.52
12	fD	3	GZL	C3-C4	6.48	1.67	1.52
13	wD	3	GZL	C3-C4	6.48	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	HB	3	GZL	C3-C4	6.48	1.67	1.52
6	zD	3	GZL	C3-C4	6.48	1.67	1.52
6	yD	3	GZL	C3-C4	6.47	1.67	1.52
14	hC	3	GZL	C3-C4	6.47	1.67	1.52
20	HE	3	GZL	C3-C4	6.46	1.67	1.52
18	eE	3	GZL	C3-C4	6.46	1.67	1.52
13	GB	3	GZL	C3-C4	6.46	1.67	1.52
12	IB	3	GZL	C3-C4	6.45	1.67	1.52
15	4C	3	GZL	C3-C4	6.45	1.67	1.52
14	KB	3	GZL	C3-C4	6.45	1.67	1.52
14	eD	3	GZL	C3-C4	6.45	1.67	1.52
22	GE	3	GZL	C3-C4	6.44	1.67	1.52
20	CE	3	GZL	C3-C4	6.44	1.67	1.52
12	lA	3	GZL	C3-C4	6.44	1.67	1.52
18	pE	3	GZL	C3-C4	6.43	1.67	1.52
15	eB	3	GZL	C3-C4	6.43	1.67	1.52
6	OE	3	GZL	C3-C4	6.42	1.67	1.52
6	9B	3	GZL	C3-C4	6.42	1.67	1.52
6	0B	3	GZL	C1-C2	6.42	1.62	1.51
13	dD	3	GZL	C3-C4	6.41	1.67	1.52
6	6D	3	GZL	C3-C4	6.41	1.67	1.52
18	DE	3	GZL	C3-C4	6.41	1.67	1.52
6	6C	3	GZL	C3-C4	6.41	1.67	1.52
6	3D	3	GZL	C3-C4	6.40	1.67	1.52
14	kC	3	GZL	C3-C4	6.40	1.67	1.52
6	R	3	GZL	C3-C4	6.40	1.67	1.52
6	6A	3	GZL	C3-C4	6.40	1.67	1.52
12	iB	3	GZL	C3-C4	6.40	1.67	1.52
6	5B	3	GZL	C3-C4	6.39	1.67	1.52
15	CA	3	GZL	C3-C4	6.39	1.67	1.52
12	iC	3	GZL	C3-C4	6.39	1.67	1.52
14	s	3	GZL	C3-C4	6.38	1.67	1.52
19	qE	3	GZL	C3-C4	6.38	1.67	1.52
20	uE	3	GZL	C3-C4	6.38	1.67	1.52
14	p	3	GZL	C3-C4	6.38	1.67	1.52
15	BB	3	GZL	C3-C4	6.38	1.67	1.52
14	nB	3	GZL	C3-C4	6.38	1.67	1.52
22	wE	3	GZL	C3-C4	6.38	1.67	1.52
6	bB	3	GZL	C3-C4	6.38	1.67	1.52
6	GD	3	GZL	C3-C4	6.38	1.67	1.52
6	0C	3	GZL	C3-C4	6.37	1.67	1.52
15	fB	3	GZL	C3-C4	6.37	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	fE	3	GZL	C3-C4	6.37	1.67	1.52
22	eE	3	GZL	C3-C4	6.37	1.67	1.52
14	nA	3	GZL	C3-C4	6.37	1.67	1.52
12	fC	3	GZL	C3-C4	6.37	1.67	1.52
6	LA	3	GZL	C1-C2	6.36	1.62	1.51
6	XB	3	GZL	C1-C2	6.36	1.62	1.51
22	iE	3	GZL	C3-C4	6.36	1.67	1.52
6	4B	3	GZL	C3-C4	6.36	1.67	1.52
13	jB	3	GZL	C3-C4	6.36	1.67	1.52
6	JC	3	GZL	C3-C4	6.35	1.67	1.52
20	jE	3	GZL	C3-C4	6.35	1.67	1.52
6	ZE	3	GZL	C3-C4	6.35	1.67	1.52
6	3B	3	GZL	C3-C4	6.35	1.67	1.52
13	gC	3	GZL	C3-C4	6.35	1.67	1.52
6	bE	3	GZL	C3-C4	6.34	1.67	1.52
20	hE	3	GZL	C3-C4	6.34	1.67	1.52
20	EE	3	GZL	C3-C4	6.34	1.67	1.52
19	LE	3	GZL	C3-C4	6.34	1.67	1.52
19	AE	3	GZL	C3-C4	6.34	1.67	1.52
6	ME	3	GZL	C3-C4	6.33	1.67	1.52
6	gB	3	GZL	C3-C4	6.33	1.67	1.52
12	n	3	GZL	C3-C4	6.33	1.67	1.52
6	AA	3	GZL	C3-C4	6.33	1.67	1.52
6	xC	3	GZL	C1-C2	6.33	1.62	1.51
13	o	3	GZL	C3-C4	6.33	1.67	1.52
15	1D	3	GZL	C3-C4	6.32	1.67	1.52
24	lE	3	GZL	C3-C4	6.32	1.67	1.52
13	2B	3	GZL	C3-C4	6.32	1.67	1.52
12	q	3	GZL	C3-C4	6.31	1.67	1.52
13	YB	3	GZL	C3-C4	6.31	1.67	1.52
22	dE	3	GZL	C3-C4	6.31	1.67	1.52
24	YE	3	GZL	C3-C4	6.30	1.67	1.52
6	8	3	GZL	C3-C4	6.30	1.67	1.52
6	cB	3	GZL	C3-C4	6.30	1.67	1.52
20	WE	3	GZL	C3-C4	6.30	1.67	1.52
13	4A	3	GZL	C3-C4	6.29	1.67	1.52
21	FE	3	GZL	C3-C4	6.29	1.67	1.52
6	8D	3	GZL	C3-C4	6.29	1.67	1.52
22	QE	3	GZL	C3-C4	6.29	1.67	1.52
21	kE	3	GZL	C3-C4	6.28	1.67	1.52
6	uD	3	GZL	C1-C2	6.28	1.62	1.51
6	oE	3	GZL	C3-C4	6.28	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	oA	3	GZL	C3-C4	6.27	1.66	1.52
15	AB	3	GZL	C3-C4	6.27	1.66	1.52
15	DA	3	GZL	C3-C4	6.27	1.66	1.52
20	gE	3	GZL	C3-C4	6.27	1.66	1.52
18	PE	3	GZL	C3-C4	6.26	1.66	1.52
6	mE	3	GZL	C3-C4	6.26	1.66	1.52
6	PA	3	GZL	C3-C4	6.26	1.66	1.52
22	RE	3	GZL	C3-C4	6.26	1.66	1.52
6	8A	3	GZL	C3-C4	6.25	1.66	1.52
22	VE	3	GZL	C3-C4	6.25	1.66	1.52
21	vE	3	GZL	C3-C4	6.25	1.66	1.52
6	9	3	GZL	C3-C4	6.25	1.66	1.52
6	EA	3	GZL	C3-C4	6.25	1.66	1.52
18	BE	3	GZL	C3-C4	6.25	1.66	1.52
13	mA	3	GZL	C3-C4	6.25	1.66	1.52
15	7B	3	GZL	C3-C4	6.25	1.66	1.52
6	CB	3	GZL	C3-C4	6.25	1.66	1.52
13	1B	3	GZL	C3-C4	6.24	1.66	1.52
14	qA	3	GZL	C3-C4	6.24	1.66	1.52
18	SE	3	GZL	C3-C4	6.24	1.66	1.52
20	TE	3	GZL	C3-C4	6.21	1.66	1.52
23	XE	3	GZL	C3-C4	6.20	1.66	1.52
13	6	3	GZL	C3-C4	6.20	1.66	1.52
6	CD	3	GZL	C1-C2	6.19	1.62	1.51
20	UE	3	GZL	C3-C4	6.18	1.66	1.52
6	7A	3	GZL	C3-C4	6.18	1.66	1.52
6	N	3	GZL	C3-C4	6.13	1.66	1.52
6	N	3	GZL	C1-C2	6.12	1.62	1.51
6	5	3	GZL	C3-C4	6.08	1.66	1.52
13	4	3	GZL	C3-C4	5.89	1.66	1.52
6	FC	3	GZL	C3-C4	5.86	1.66	1.52
6	LA	3	GZL	C3-C4	5.80	1.65	1.52
6	3A	3	GZL	C1-C2	5.69	1.61	1.51
13	2A	3	GZL	C1-C2	5.66	1.61	1.51
6	CD	3	GZL	C3-C4	5.65	1.65	1.52
6	uD	3	GZL	C3-C4	5.31	1.64	1.52
6	XB	3	GZL	C3-C4	5.29	1.64	1.52
6	0B	3	GZL	C3-C4	5.27	1.64	1.52
6	xC	3	GZL	C3-C4	5.22	1.64	1.52
6	3A	3	GZL	C3-C4	5.21	1.64	1.52
13	tD	3	GZL	C1-C2	5.15	1.60	1.51
6	5	3	GZL	C1-C2	5.11	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3B	3	GZL	C1-C2	5.09	1.60	1.51
13	WB	3	GZL	C1-C2	5.07	1.60	1.51
6	0C	3	GZL	C1-C2	5.05	1.60	1.51
13	wC	3	GZL	C1-C2	5.05	1.60	1.51
6	CB	3	GZL	C1-C2	5.02	1.60	1.51
14	kB	3	GZL	C1-C2	5.02	1.60	1.51
14	nB	3	GZL	C1-C2	5.00	1.60	1.51
12	iB	3	GZL	C1-C2	5.00	1.60	1.51
13	jB	3	GZL	C1-C2	4.98	1.60	1.51
6	ZE	3	GZL	C1-C2	4.98	1.60	1.51
14	p	3	GZL	C1-C2	4.97	1.60	1.51
14	hC	3	GZL	C1-C2	4.96	1.60	1.51
13	zB	3	GZL	C1-C2	4.96	1.60	1.51
6	xD	3	GZL	C1-C2	4.95	1.60	1.51
6	9B	3	GZL	C1-C2	4.95	1.60	1.51
12	FB	3	GZL	C1-C2	4.93	1.60	1.51
6	gB	3	GZL	C1-C2	4.93	1.60	1.51
14	HB	3	GZL	C1-C2	4.93	1.60	1.51
14	kC	3	GZL	C1-C2	4.93	1.60	1.51
14	eD	3	GZL	C1-C2	4.92	1.60	1.51
14	KB	3	GZL	C1-C2	4.92	1.60	1.51
6	EA	3	GZL	C1-C2	4.91	1.60	1.51
19	qE	3	GZL	C1-C2	4.91	1.60	1.51
6	3D	3	GZL	C1-C2	4.91	1.60	1.51
12	n	3	GZL	C1-C2	4.91	1.60	1.51
13	4	3	GZL	C1-C2	4.90	1.60	1.51
6	PA	3	GZL	C1-C2	4.90	1.60	1.51
19	LE	3	GZL	C1-C2	4.89	1.60	1.51
13	2B	3	GZL	C1-C2	4.89	1.60	1.51
14	nA	3	GZL	C1-C2	4.89	1.60	1.51
21	vE	3	GZL	C1-C2	4.89	1.60	1.51
6	7A	3	GZL	C1-C2	4.89	1.60	1.51
19	AE	3	GZL	C1-C2	4.88	1.60	1.51
6	4B	3	GZL	C1-C2	4.88	1.60	1.51
6	6C	3	GZL	C1-C2	4.87	1.59	1.51
20	gE	3	GZL	C1-C2	4.87	1.59	1.51
14	qA	3	GZL	C1-C2	4.87	1.59	1.51
20	TE	3	GZL	C1-C2	4.85	1.59	1.51
13	1B	3	GZL	C1-C2	4.84	1.59	1.51
6	oE	3	GZL	C1-C2	4.84	1.59	1.51
6	bB	3	GZL	C1-C2	4.82	1.59	1.51
20	jE	3	GZL	C1-C2	4.82	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	IB	3	GZL	C1-C2	4.82	1.59	1.51
13	yC	3	GZL	C1-C2	4.82	1.59	1.51
13	wD	3	GZL	C1-C2	4.82	1.59	1.51
6	2C	3	GZL	C1-C2	4.81	1.59	1.51
13	GB	3	GZL	C1-C2	4.81	1.59	1.51
14	s	3	GZL	C1-C2	4.80	1.59	1.51
12	fC	3	GZL	C1-C2	4.80	1.59	1.51
13	zC	3	GZL	C1-C2	4.80	1.59	1.51
21	kE	3	GZL	C1-C2	4.80	1.59	1.51
15	1D	3	GZL	C1-C2	4.79	1.59	1.51
18	BE	3	GZL	C1-C2	4.79	1.59	1.51
20	hE	3	GZL	C1-C2	4.79	1.59	1.51
24	lE	3	GZL	C1-C2	4.79	1.59	1.51
6	6D	3	GZL	C1-C2	4.78	1.59	1.51
6	bE	3	GZL	C1-C2	4.78	1.59	1.51
6	8D	3	GZL	C1-C2	4.77	1.59	1.51
18	cE	3	GZL	C1-C2	4.77	1.59	1.51
13	dD	3	GZL	C1-C2	4.76	1.59	1.51
19	aE	3	GZL	C1-C2	4.76	1.59	1.51
13	o	3	GZL	C1-C2	4.76	1.59	1.51
6	cB	3	GZL	C1-C2	4.76	1.59	1.51
6	8	3	GZL	C1-C2	4.76	1.59	1.51
12	lA	3	GZL	C1-C2	4.75	1.59	1.51
24	YE	3	GZL	C1-C2	4.75	1.59	1.51
15	7B	3	GZL	C1-C2	4.75	1.59	1.51
6	mE	3	GZL	C1-C2	4.74	1.59	1.51
15	AB	3	GZL	C1-C2	4.74	1.59	1.51
13	gC	3	GZL	C1-C2	4.74	1.59	1.51
6	R	3	GZL	C1-C2	4.73	1.59	1.51
13	4A	3	GZL	C1-C2	4.72	1.59	1.51
20	UE	3	GZL	C1-C2	4.72	1.59	1.51
22	VE	3	GZL	C1-C2	4.72	1.59	1.51
12	iC	3	GZL	C1-C2	4.71	1.59	1.51
20	WE	3	GZL	C1-C2	4.71	1.59	1.51
15	5C	3	GZL	C1-C2	4.71	1.59	1.51
20	EE	3	GZL	C1-C2	4.71	1.59	1.51
15	CA	3	GZL	C1-C2	4.71	1.59	1.51
22	dE	3	GZL	C1-C2	4.70	1.59	1.51
6	zD	3	GZL	C1-C2	4.70	1.59	1.51
18	SE	3	GZL	C1-C2	4.70	1.59	1.51
6	8A	3	GZL	C1-C2	4.69	1.59	1.51
13	ZB	3	GZL	C1-C2	4.69	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	cD	3	GZL	C1-C2	4.69	1.59	1.51
23	XE	3	GZL	C1-C2	4.69	1.59	1.51
18	zE	3	GZL	C1-C2	4.68	1.59	1.51
18	PE	3	GZL	C1-C2	4.68	1.59	1.51
6	GD	3	GZL	C1-C2	4.67	1.59	1.51
22	iE	3	GZL	C1-C2	4.67	1.59	1.51
12	lB	3	GZL	C1-C2	4.67	1.59	1.51
22	RE	3	GZL	C1-C2	4.67	1.59	1.51
6	ME	3	GZL	C1-C2	4.66	1.59	1.51
6	9	3	GZL	C1-C2	4.66	1.59	1.51
18	yE	3	GZL	C1-C2	4.66	1.59	1.51
14	hD	3	GZL	C1-C2	4.66	1.59	1.51
6	aB	3	GZL	C1-C2	4.66	1.59	1.51
6	yD	3	GZL	C1-C2	4.65	1.59	1.51
18	fE	3	GZL	C1-C2	4.65	1.59	1.51
19	lE	3	GZL	C1-C2	4.65	1.59	1.51
21	FE	3	GZL	C1-C2	4.65	1.59	1.51
13	mA	3	GZL	C1-C2	4.65	1.59	1.51
6	AA	3	GZL	C1-C2	4.64	1.59	1.51
22	eE	3	GZL	C1-C2	4.64	1.59	1.51
18	pE	3	GZL	C1-C2	4.64	1.59	1.51
12	q	3	GZL	C1-C2	4.64	1.59	1.51
12	oA	3	GZL	C1-C2	4.64	1.59	1.51
13	YB	3	GZL	C1-C2	4.63	1.59	1.51
6	JC	3	GZL	C1-C2	4.63	1.59	1.51
13	vD	3	GZL	C1-C2	4.62	1.59	1.51
18	DE	3	GZL	C1-C2	4.62	1.59	1.51
15	DA	3	GZL	C1-C2	4.61	1.59	1.51
20	uE	3	GZL	C1-C2	4.61	1.59	1.51
15	4C	3	GZL	C1-C2	4.60	1.59	1.51
15	eB	3	GZL	C1-C2	4.60	1.59	1.51
12	fD	3	GZL	C1-C2	4.60	1.59	1.51
6	6A	3	GZL	C1-C2	4.60	1.59	1.51
22	QE	3	GZL	C1-C2	4.59	1.59	1.51
15	BB	3	GZL	C1-C2	4.59	1.59	1.51
15	fB	3	GZL	C1-C2	4.58	1.59	1.51
15	2D	3	GZL	C1-C2	4.58	1.59	1.51
18	JE	3	GZL	C1-C2	4.58	1.59	1.51
18	tE	3	GZL	C1-C2	4.57	1.59	1.51
22	wE	3	GZL	C1-C2	4.57	1.59	1.51
20	sE	3	GZL	C1-C2	4.57	1.59	1.51
6	5B	3	GZL	C1-C2	4.57	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	OE	3	GZL	C1-C2	4.56	1.59	1.51
6	1C	3	GZL	C1-C2	4.56	1.59	1.51
13	0D	3	GZL	C1-C2	4.55	1.59	1.51
18	KE	3	GZL	C1-C2	4.55	1.59	1.51
6	nE	3	GZL	C1-C2	4.54	1.59	1.51
13	7	3	GZL	C1-C2	4.54	1.59	1.51
13	5A	3	GZL	C1-C2	4.53	1.59	1.51
13	6	3	GZL	C1-C2	4.52	1.59	1.51
13	3C	3	GZL	C1-C2	4.52	1.59	1.51
19	NE	3	GZL	C1-C2	4.51	1.59	1.51
15	8B	3	GZL	C1-C2	4.50	1.59	1.51
18	IE	3	GZL	C1-C2	4.48	1.59	1.51
6	uD	3	GZL	O4-C1	4.47	1.53	1.43
6	xC	3	GZL	O4-C1	4.45	1.53	1.43
22	GE	3	GZL	C1-C2	4.44	1.59	1.51
18	0E	3	GZL	C1-C2	4.44	1.59	1.51
20	HE	3	GZL	C1-C2	4.43	1.59	1.51
20	CE	3	GZL	C1-C2	4.43	1.59	1.51
18	rE	3	GZL	C1-C2	4.43	1.59	1.51
20	xE	3	GZL	C1-C2	4.42	1.59	1.51
6	XB	3	GZL	O4-C1	4.41	1.53	1.43
6	7D	3	GZL	C1-C2	4.38	1.59	1.51
6	LA	3	GZL	O4-C1	4.38	1.53	1.43
6	0B	3	GZL	O4-C1	4.36	1.53	1.43
18	9D	3	GZL	C1-C2	4.35	1.59	1.51
13	6B	3	GZL	C1-C2	4.33	1.59	1.51
6	FC	3	GZL	C1-C2	4.25	1.58	1.51
6	CD	3	GZL	O4-C1	4.22	1.53	1.43
13	YB	3	GZL	O4-C1	4.21	1.53	1.43
15	1D	3	GZL	O4-C1	4.20	1.53	1.43
13	1B	3	GZL	O4-C1	4.19	1.53	1.43
13	dB	3	GZL	C1-C2	4.17	1.58	1.51
13	wC	3	GZL	O4-C1	4.16	1.53	1.43
13	WB	3	GZL	O4-C1	4.16	1.53	1.43
19	LE	3	GZL	O4-C1	4.14	1.53	1.43
13	jB	3	GZL	O4-C1	4.14	1.53	1.43
13	zB	3	GZL	O4-C1	4.13	1.52	1.43
13	tD	3	GZL	O4-C1	4.12	1.52	1.43
13	o	3	GZL	O4-C1	4.12	1.52	1.43
13	2A	3	GZL	O4-C1	4.12	1.52	1.43
15	4C	3	GZL	O4-C1	4.11	1.52	1.43
13	gC	3	GZL	O4-C1	4.11	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	gE	3	GZL	O4-C1	4.10	1.52	1.43
6	N	3	GZL	O4-C1	4.09	1.52	1.43
6	5	3	GZL	O4-C1	4.09	1.52	1.43
22	VE	3	GZL	O4-C1	4.09	1.52	1.43
12	IB	3	GZL	O4-C1	4.09	1.52	1.43
13	GB	3	GZL	O4-C1	4.09	1.52	1.43
15	fB	3	GZL	O4-C1	4.09	1.52	1.43
22	iE	3	GZL	O4-C1	4.09	1.52	1.43
6	6A	3	GZL	O4-C1	4.08	1.52	1.43
13	mA	3	GZL	O4-C1	4.08	1.52	1.43
23	XE	3	GZL	O4-C1	4.08	1.52	1.43
12	q	3	GZL	O4-C1	4.08	1.52	1.43
12	lB	3	GZL	O4-C1	4.07	1.52	1.43
13	dD	3	GZL	O4-C1	4.07	1.52	1.43
21	kE	3	GZL	O4-C1	4.07	1.52	1.43
12	fC	3	GZL	O4-C1	4.06	1.52	1.43
6	3B	3	GZL	O4-C1	4.06	1.52	1.43
14	qA	3	GZL	O4-C1	4.06	1.52	1.43
20	TE	3	GZL	O4-C1	4.06	1.52	1.43
6	zD	3	GZL	O4-C1	4.06	1.52	1.43
24	YE	3	GZL	O4-C1	4.06	1.52	1.43
12	oA	3	GZL	O4-C1	4.05	1.52	1.43
6	ZE	3	GZL	O4-C1	4.05	1.52	1.43
18	fE	3	GZL	O4-C1	4.05	1.52	1.43
6	7A	3	GZL	O4-C1	4.05	1.52	1.43
6	oE	3	GZL	O4-C1	4.05	1.52	1.43
13	6	3	GZL	O4-C1	4.05	1.52	1.43
22	wE	3	GZL	O4-C1	4.05	1.52	1.43
21	vE	3	GZL	O4-C1	4.05	1.52	1.43
13	yC	3	GZL	O4-C1	4.04	1.52	1.43
15	7B	3	GZL	O4-C1	4.04	1.52	1.43
13	9A	3	GZL	C1-C2	4.04	1.58	1.51
18	pE	3	GZL	O4-C1	4.03	1.52	1.43
6	ME	3	GZL	O4-C1	4.03	1.52	1.43
6	mE	3	GZL	O4-C1	4.03	1.52	1.43
6	FC	3	GZL	O4-C1	4.03	1.52	1.43
19	AE	3	GZL	O4-C1	4.02	1.52	1.43
15	DA	3	GZL	O4-C1	4.02	1.52	1.43
15	AB	3	GZL	O4-C1	4.02	1.52	1.43
24	lE	3	GZL	O4-C1	4.02	1.52	1.43
12	lA	3	GZL	O4-C1	4.02	1.52	1.43
6	0C	3	GZL	O4-C1	4.01	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	fD	3	GZL	O4-C1	4.01	1.52	1.43
18	SE	3	GZL	O4-C1	4.01	1.52	1.43
6	bB	3	GZL	O4-C1	4.01	1.52	1.43
6	3D	3	GZL	O4-C1	4.01	1.52	1.43
12	iB	3	GZL	O4-C1	4.01	1.52	1.43
20	UE	3	GZL	O4-C1	4.01	1.52	1.43
6	AA	3	GZL	O4-C1	4.01	1.52	1.43
6	PA	3	GZL	O4-C1	4.01	1.52	1.43
6	6C	3	GZL	O4-C1	4.00	1.52	1.43
6	yD	3	GZL	O4-C1	4.00	1.52	1.43
13	2B	3	GZL	O4-C1	4.00	1.52	1.43
14	nA	3	GZL	O4-C1	4.00	1.52	1.43
14	s	3	GZL	O4-C1	4.00	1.52	1.43
20	WE	3	GZL	O4-C1	4.00	1.52	1.43
6	CB	3	GZL	O4-C1	4.00	1.52	1.43
18	PE	3	GZL	O4-C1	4.00	1.52	1.43
12	iC	3	GZL	O4-C1	4.00	1.52	1.43
20	jE	3	GZL	O4-C1	4.00	1.52	1.43
18	cE	3	GZL	O4-C1	4.00	1.52	1.43
15	2D	3	GZL	O4-C1	4.00	1.52	1.43
13	4A	3	GZL	O4-C1	3.99	1.52	1.43
15	BB	3	GZL	O4-C1	3.99	1.52	1.43
12	n	3	GZL	O4-C1	3.99	1.52	1.43
6	8	3	GZL	O4-C1	3.99	1.52	1.43
6	xD	3	GZL	O4-C1	3.99	1.52	1.43
14	p	3	GZL	O4-C1	3.99	1.52	1.43
6	3A	3	GZL	O4-C1	3.98	1.52	1.43
6	EA	3	GZL	O4-C1	3.98	1.52	1.43
6	9	3	GZL	O4-C1	3.98	1.52	1.43
6	6D	3	GZL	O4-C1	3.98	1.52	1.43
22	RE	3	GZL	O4-C1	3.98	1.52	1.43
15	8B	3	GZL	O4-C1	3.98	1.52	1.43
6	aB	3	GZL	O4-C1	3.98	1.52	1.43
14	eD	3	GZL	O4-C1	3.97	1.52	1.43
6	5B	3	GZL	O4-C1	3.97	1.52	1.43
6	bE	3	GZL	O4-C1	3.97	1.52	1.43
19	qE	3	GZL	O4-C1	3.97	1.52	1.43
22	GE	3	GZL	O4-C1	3.97	1.52	1.43
6	8D	3	GZL	O4-C1	3.96	1.52	1.43
20	hE	3	GZL	O4-C1	3.96	1.52	1.43
6	2C	3	GZL	O4-C1	3.96	1.52	1.43
22	dE	3	GZL	O4-C1	3.96	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	CA	3	GZL	O4-C1	3.96	1.52	1.43
13	wD	3	GZL	O4-C1	3.96	1.52	1.43
20	EE	3	GZL	O4-C1	3.96	1.52	1.43
6	cB	3	GZL	O4-C1	3.96	1.52	1.43
12	cD	3	GZL	O4-C1	3.95	1.52	1.43
13	zC	3	GZL	O4-C1	3.95	1.52	1.43
15	5C	3	GZL	O4-C1	3.95	1.52	1.43
13	vD	3	GZL	O4-C1	3.95	1.52	1.43
6	8A	3	GZL	O4-C1	3.95	1.52	1.43
22	eE	3	GZL	O4-C1	3.95	1.52	1.43
13	BA	3	GZL	C1-C2	3.95	1.58	1.51
19	1E	3	GZL	O4-C1	3.95	1.52	1.43
6	gB	3	GZL	O4-C1	3.94	1.52	1.43
21	FE	3	GZL	O4-C1	3.94	1.52	1.43
18	9D	3	GZL	O4-C1	3.93	1.52	1.43
22	QE	3	GZL	O4-C1	3.93	1.52	1.43
13	7	3	GZL	O4-C1	3.93	1.52	1.43
20	uE	3	GZL	O4-C1	3.93	1.52	1.43
14	nB	3	GZL	O4-C1	3.93	1.52	1.43
14	kC	3	GZL	O4-C1	3.93	1.52	1.43
6	1C	3	GZL	O4-C1	3.92	1.52	1.43
6	JC	3	GZL	O4-C1	3.92	1.52	1.43
6	R	3	GZL	O4-C1	3.92	1.52	1.43
14	KB	3	GZL	O4-C1	3.92	1.52	1.43
18	0E	3	GZL	O4-C1	3.91	1.52	1.43
13	ZB	3	GZL	O4-C1	3.91	1.52	1.43
20	xE	3	GZL	O4-C1	3.91	1.52	1.43
19	NE	3	GZL	O4-C1	3.90	1.52	1.43
12	FB	3	GZL	O4-C1	3.90	1.52	1.43
6	4B	3	GZL	O4-C1	3.90	1.52	1.43
6	7D	3	GZL	O4-C1	3.89	1.52	1.43
18	DE	3	GZL	O4-C1	3.89	1.52	1.43
15	eB	3	GZL	O4-C1	3.89	1.52	1.43
18	rE	3	GZL	O4-C1	3.89	1.52	1.43
13	0D	3	GZL	O4-C1	3.87	1.52	1.43
14	hC	3	GZL	O4-C1	3.87	1.52	1.43
19	aE	3	GZL	O4-C1	3.87	1.52	1.43
14	hC	3	GZL	O2-C2	3.86	1.51	1.43
19	aE	3	GZL	O2-C2	3.86	1.51	1.43
12	FB	3	GZL	O2-C2	3.86	1.51	1.43
18	JE	3	GZL	O4-C1	3.86	1.52	1.43
6	GD	3	GZL	O4-C1	3.86	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	HB	3	GZL	O4-C1	3.85	1.52	1.43
6	0C	3	GZL	O2-C2	3.85	1.51	1.43
13	4	3	GZL	O2-C2	3.85	1.51	1.43
14	nB	3	GZL	O2-C2	3.85	1.51	1.43
20	HE	3	GZL	O4-C1	3.85	1.52	1.43
18	tE	3	GZL	O4-C1	3.84	1.52	1.43
12	iB	3	GZL	O2-C2	3.84	1.51	1.43
13	yC	3	GZL	O2-C2	3.84	1.51	1.43
6	9B	3	GZL	O4-C1	3.84	1.52	1.43
18	zE	3	GZL	O2-C2	3.84	1.51	1.43
18	KE	3	GZL	O4-C1	3.84	1.52	1.43
13	zC	3	GZL	O2-C2	3.84	1.51	1.43
6	zD	3	GZL	O2-C2	3.84	1.51	1.43
15	5C	3	GZL	O2-C2	3.83	1.51	1.43
12	IB	3	GZL	O2-C2	3.83	1.51	1.43
13	5A	3	GZL	O4-C1	3.83	1.52	1.43
6	nE	3	GZL	O4-C1	3.83	1.52	1.43
12	lB	3	GZL	O2-C2	3.83	1.51	1.43
13	3C	3	GZL	O4-C1	3.83	1.52	1.43
13	zB	3	GZL	O2-C2	3.83	1.51	1.43
19	qE	3	GZL	O2-C2	3.82	1.51	1.43
15	4C	3	GZL	O2-C2	3.82	1.51	1.43
20	sE	3	GZL	O4-C1	3.82	1.52	1.43
6	xD	3	GZL	O2-C2	3.82	1.51	1.43
13	dD	3	GZL	O2-C2	3.82	1.51	1.43
20	jE	3	GZL	O2-C2	3.82	1.51	1.43
18	BE	3	GZL	O4-C1	3.82	1.52	1.43
6	nE	3	GZL	O2-C2	3.82	1.51	1.43
6	8D	3	GZL	O2-C2	3.82	1.51	1.43
18	0E	3	GZL	O2-C2	3.82	1.51	1.43
13	vD	3	GZL	O2-C2	3.82	1.51	1.43
15	2D	3	GZL	O2-C2	3.82	1.51	1.43
6	OE	3	GZL	O4-C1	3.82	1.52	1.43
6	2C	3	GZL	O2-C2	3.81	1.51	1.43
14	HB	3	GZL	O2-C2	3.81	1.51	1.43
14	kB	3	GZL	O2-C2	3.81	1.51	1.43
6	ZE	3	GZL	O2-C2	3.81	1.51	1.43
18	yE	3	GZL	O4-C1	3.81	1.52	1.43
6	9B	3	GZL	O2-C2	3.81	1.51	1.43
6	6C	3	GZL	O2-C2	3.81	1.51	1.43
6	3D	3	GZL	O2-C2	3.81	1.51	1.43
14	kB	3	GZL	O4-C1	3.81	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	JE	3	GZL	O2-C2	3.81	1.51	1.43
18	cE	3	GZL	O2-C2	3.81	1.51	1.43
14	KB	3	GZL	O2-C2	3.81	1.51	1.43
13	1B	3	GZL	O2-C2	3.81	1.51	1.43
13	wD	3	GZL	O2-C2	3.81	1.51	1.43
15	1D	3	GZL	O2-C2	3.80	1.51	1.43
6	1C	3	GZL	O2-C2	3.80	1.51	1.43
13	gC	3	GZL	O2-C2	3.80	1.51	1.43
19	AE	3	GZL	O2-C2	3.80	1.51	1.43
18	zE	3	GZL	O4-C1	3.80	1.52	1.43
20	hE	3	GZL	O2-C2	3.80	1.51	1.43
6	oE	3	GZL	O2-C2	3.80	1.51	1.43
14	hD	3	GZL	O2-C2	3.80	1.51	1.43
13	jB	3	GZL	O2-C2	3.80	1.51	1.43
6	3B	3	GZL	O2-C2	3.79	1.51	1.43
14	eD	3	GZL	O2-C2	3.79	1.51	1.43
12	fD	3	GZL	O2-C2	3.79	1.51	1.43
24	lE	3	GZL	O2-C2	3.79	1.51	1.43
13	WB	3	GZL	O2-C2	3.79	1.51	1.43
14	s	3	GZL	O2-C2	3.79	1.51	1.43
13	YB	3	GZL	O2-C2	3.79	1.51	1.43
18	pE	3	GZL	O2-C2	3.79	1.51	1.43
12	iC	3	GZL	O2-C2	3.79	1.51	1.43
6	6D	3	GZL	O2-C2	3.79	1.51	1.43
13	GB	3	GZL	O2-C2	3.78	1.51	1.43
22	iE	3	GZL	O2-C2	3.78	1.51	1.43
20	HE	3	GZL	O2-C2	3.78	1.51	1.43
6	bB	3	GZL	O2-C2	3.78	1.51	1.43
20	TE	3	GZL	O2-C2	3.78	1.51	1.43
22	QE	3	GZL	O2-C2	3.78	1.51	1.43
6	4B	3	GZL	O2-C2	3.78	1.51	1.43
20	gE	3	GZL	O2-C2	3.78	1.51	1.43
20	uE	3	GZL	O2-C2	3.78	1.51	1.43
6	R	3	GZL	O2-C2	3.77	1.51	1.43
14	kC	3	GZL	O2-C2	3.77	1.51	1.43
13	3C	3	GZL	O2-C2	3.77	1.51	1.43
18	yE	3	GZL	O2-C2	3.77	1.51	1.43
6	7D	3	GZL	O2-C2	3.77	1.51	1.43
6	gB	3	GZL	O2-C2	3.77	1.51	1.43
19	NE	3	GZL	O2-C2	3.77	1.51	1.43
13	tD	3	GZL	O2-C2	3.77	1.51	1.43
13	6B	3	GZL	O4-C1	3.77	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	wC	3	GZL	O2-C2	3.77	1.51	1.43
18	tE	3	GZL	O2-C2	3.77	1.51	1.43
6	ME	3	GZL	O2-C2	3.77	1.51	1.43
22	VE	3	GZL	O2-C2	3.77	1.51	1.43
22	eE	3	GZL	O2-C2	3.77	1.51	1.43
20	CE	3	GZL	O4-C1	3.77	1.52	1.43
6	PA	3	GZL	O2-C2	3.76	1.51	1.43
15	7B	3	GZL	O2-C2	3.76	1.51	1.43
18	PE	3	GZL	O2-C2	3.76	1.51	1.43
18	KE	3	GZL	O2-C2	3.76	1.51	1.43
13	0D	3	GZL	O2-C2	3.76	1.51	1.43
18	BE	3	GZL	O2-C2	3.76	1.51	1.43
6	8	3	GZL	O2-C2	3.76	1.51	1.43
13	2A	3	GZL	O2-C2	3.76	1.51	1.43
6	yD	3	GZL	O2-C2	3.76	1.51	1.43
13	o	3	GZL	O2-C2	3.76	1.51	1.43
13	ZB	3	GZL	O2-C2	3.76	1.51	1.43
6	cB	3	GZL	O2-C2	3.76	1.51	1.43
6	GD	3	GZL	O2-C2	3.76	1.51	1.43
6	mE	3	GZL	O2-C2	3.76	1.51	1.43
14	qA	3	GZL	O2-C2	3.76	1.51	1.43
18	rE	3	GZL	O2-C2	3.76	1.51	1.43
13	dB	3	GZL	O4-C1	3.75	1.52	1.43
15	fB	3	GZL	O2-C2	3.75	1.51	1.43
23	XE	3	GZL	O2-C2	3.75	1.51	1.43
22	GE	3	GZL	O2-C2	3.75	1.51	1.43
6	aB	3	GZL	O2-C2	3.75	1.51	1.43
12	lA	3	GZL	O2-C2	3.75	1.51	1.43
6	JC	3	GZL	O2-C2	3.75	1.51	1.43
20	xE	3	GZL	O2-C2	3.75	1.51	1.43
22	wE	3	GZL	O2-C2	3.75	1.51	1.43
18	9D	3	GZL	O2-C2	3.75	1.51	1.43
14	p	3	GZL	O2-C2	3.75	1.51	1.43
6	EA	3	GZL	O2-C2	3.75	1.51	1.43
13	5A	3	GZL	O2-C2	3.75	1.51	1.43
6	7A	3	GZL	O2-C2	3.75	1.51	1.43
13	7	3	GZL	O2-C2	3.75	1.51	1.43
13	2B	3	GZL	O2-C2	3.75	1.51	1.43
21	kE	3	GZL	O2-C2	3.75	1.51	1.43
18	IE	3	GZL	O2-C2	3.74	1.51	1.43
13	mA	3	GZL	O2-C2	3.74	1.51	1.43
19	1E	3	GZL	O2-C2	3.74	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	fC	3	GZL	O2-C2	3.74	1.51	1.43
12	cD	3	GZL	O2-C2	3.74	1.51	1.43
22	RE	3	GZL	O2-C2	3.74	1.51	1.43
6	LA	3	GZL	O2-C2	3.74	1.51	1.43
6	OE	3	GZL	O2-C2	3.74	1.51	1.43
18	DE	3	GZL	O2-C2	3.74	1.51	1.43
18	fE	3	GZL	O2-C2	3.73	1.51	1.43
20	sE	3	GZL	O2-C2	3.73	1.51	1.43
6	6A	3	GZL	O2-C2	3.73	1.51	1.43
20	EE	3	GZL	O2-C2	3.73	1.51	1.43
24	YE	3	GZL	O2-C2	3.73	1.51	1.43
20	CE	3	GZL	O2-C2	3.73	1.51	1.43
6	bE	3	GZL	O2-C2	3.72	1.51	1.43
13	6	3	GZL	O2-C2	3.72	1.51	1.43
20	WE	3	GZL	O2-C2	3.72	1.51	1.43
12	q	3	GZL	O2-C2	3.72	1.51	1.43
18	SE	3	GZL	O2-C2	3.72	1.51	1.43
22	dE	3	GZL	O2-C2	3.72	1.51	1.43
6	8A	3	GZL	O2-C2	3.72	1.51	1.43
6	CB	3	GZL	O2-C2	3.72	1.51	1.43
20	UE	3	GZL	O2-C2	3.72	1.51	1.43
15	8B	3	GZL	O2-C2	3.72	1.51	1.43
15	BB	3	GZL	O2-C2	3.71	1.51	1.43
18	IE	3	GZL	O4-C1	3.71	1.52	1.43
21	vE	3	GZL	O2-C2	3.71	1.51	1.43
15	eB	3	GZL	O2-C2	3.70	1.51	1.43
12	n	3	GZL	O2-C2	3.70	1.51	1.43
6	CD	3	GZL	O2-C2	3.70	1.51	1.43
13	4A	3	GZL	O2-C2	3.70	1.51	1.43
6	5B	3	GZL	O2-C2	3.69	1.51	1.43
13	6B	3	GZL	O2-C2	3.69	1.51	1.43
15	AB	3	GZL	O2-C2	3.69	1.51	1.43
21	FE	3	GZL	O2-C2	3.69	1.51	1.43
6	uD	3	GZL	O2-C2	3.68	1.51	1.43
15	DA	3	GZL	O2-C2	3.68	1.51	1.43
6	AA	3	GZL	O2-C2	3.68	1.51	1.43
6	9	3	GZL	O2-C2	3.68	1.51	1.43
14	hD	3	GZL	O4-C1	3.68	1.51	1.43
12	oA	3	GZL	O2-C2	3.68	1.51	1.43
14	nA	3	GZL	O2-C2	3.68	1.51	1.43
13	dB	3	GZL	O2-C2	3.67	1.51	1.43
13	9A	3	GZL	O4-C1	3.66	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	CA	3	GZL	O2-C2	3.66	1.51	1.43
6	XB	3	GZL	O2-C2	3.65	1.51	1.43
13	9A	3	GZL	O2-C2	3.64	1.51	1.43
19	LE	3	GZL	O2-C2	3.64	1.51	1.43
13	BA	3	GZL	O2-C2	3.63	1.51	1.43
6	N	3	GZL	O2-C2	3.62	1.51	1.43
6	FC	3	GZL	O2-C2	3.60	1.51	1.43
6	xC	3	GZL	O2-C2	3.60	1.51	1.43
6	0B	3	GZL	O2-C2	3.55	1.50	1.43
13	BA	3	GZL	O4-C1	3.50	1.51	1.43
6	3A	3	GZL	O2-C2	3.41	1.50	1.43
6	5	3	GZL	O2-C2	3.22	1.50	1.43
13	4	3	GZL	O4-C1	3.21	1.50	1.43
12	fD	3	GZL	O3-C3	2.30	1.48	1.43
13	6B	3	GZL	O3-C3	2.25	1.48	1.43
12	FB	3	GZL	O3-C3	2.25	1.48	1.43
13	3C	3	GZL	O3-C3	2.25	1.48	1.43
13	0D	3	GZL	O3-C3	2.24	1.48	1.43
13	4	3	GZL	O3-C3	2.23	1.48	1.43
13	zC	3	GZL	O3-C3	2.23	1.48	1.43
13	5A	3	GZL	O3-C3	2.22	1.48	1.43
13	yC	3	GZL	O3-C3	2.21	1.48	1.43
12	lB	3	GZL	O3-C3	2.21	1.48	1.43
12	iC	3	GZL	O3-C3	2.21	1.48	1.43
13	ZB	3	GZL	O3-C3	2.19	1.48	1.43
13	dD	3	GZL	O3-C3	2.19	1.48	1.43
6	xD	3	GZL	O3-C3	2.19	1.48	1.43
20	EE	3	GZL	O3-C3	2.19	1.48	1.43
14	eD	3	GZL	O3-C3	2.18	1.48	1.43
13	9A	3	GZL	O3-C3	2.18	1.48	1.43
12	n	3	GZL	O3-C3	2.18	1.48	1.43
13	GB	3	GZL	O3-C3	2.18	1.48	1.43
13	BA	3	GZL	O3-C3	2.18	1.48	1.43
18	KE	3	GZL	O3-C3	2.17	1.48	1.43
13	o	3	GZL	O3-C3	2.17	1.48	1.43
13	jB	3	GZL	O3-C3	2.17	1.48	1.43
13	wD	3	GZL	O3-C3	2.17	1.48	1.43
14	kB	3	GZL	O3-C3	2.17	1.48	1.43
18	zE	3	GZL	O3-C3	2.16	1.48	1.43
6	GD	3	GZL	O3-C3	2.16	1.48	1.43
6	6C	3	GZL	O3-C3	2.16	1.48	1.43
6	2C	3	GZL	O3-C3	2.16	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	5C	3	GZL	O3-C3	2.16	1.48	1.43
14	KB	3	GZL	O3-C3	2.16	1.48	1.43
13	2B	3	GZL	O3-C3	2.16	1.48	1.43
15	1D	3	GZL	O3-C3	2.16	1.48	1.43
6	zD	3	GZL	O3-C3	2.16	1.48	1.43
12	lA	3	GZL	O3-C3	2.16	1.48	1.43
12	IB	3	GZL	O3-C3	2.16	1.48	1.43
6	nE	3	GZL	O3-C3	2.16	1.48	1.43
6	N	3	GZL	O3-C3	2.15	1.48	1.43
6	0C	3	GZL	O3-C3	2.15	1.48	1.43
13	1B	3	GZL	O3-C3	2.15	1.48	1.43
12	q	3	GZL	O3-C3	2.15	1.48	1.43
14	HB	3	GZL	O3-C3	2.14	1.48	1.43
6	ZE	3	GZL	O3-C3	2.14	1.48	1.43
19	aE	3	GZL	O3-C3	2.14	1.48	1.43
6	3B	3	GZL	O3-C3	2.14	1.48	1.43
19	NE	3	GZL	O3-C3	2.14	1.48	1.43
6	3D	3	GZL	O3-C3	2.14	1.48	1.43
12	cD	3	GZL	O3-C3	2.14	1.48	1.43
6	bB	3	GZL	O3-C3	2.14	1.48	1.43
12	iB	3	GZL	O3-C3	2.14	1.48	1.43
13	zB	3	GZL	O3-C3	2.13	1.48	1.43
6	4B	3	GZL	O3-C3	2.13	1.48	1.43
14	hD	3	GZL	O3-C3	2.13	1.48	1.43
15	8B	3	GZL	O3-C3	2.13	1.48	1.43
22	dE	3	GZL	O3-C3	2.13	1.48	1.43
13	7	3	GZL	O3-C3	2.13	1.48	1.43
18	0E	3	GZL	O3-C3	2.13	1.48	1.43
6	gB	3	GZL	O3-C3	2.13	1.48	1.43
15	4C	3	GZL	O3-C3	2.13	1.48	1.43
22	GE	3	GZL	O3-C3	2.13	1.48	1.43
18	pE	3	GZL	O3-C3	2.13	1.48	1.43
20	gE	3	GZL	O3-C3	2.13	1.48	1.43
20	xE	3	GZL	O3-C3	2.12	1.48	1.43
20	WE	3	GZL	O3-C3	2.12	1.48	1.43
14	s	3	GZL	O3-C3	2.12	1.48	1.43
18	BE	3	GZL	O3-C3	2.12	1.48	1.43
20	HE	3	GZL	O3-C3	2.12	1.48	1.43
20	TE	3	GZL	O3-C3	2.12	1.48	1.43
19	1E	3	GZL	O3-C3	2.12	1.48	1.43
6	yD	3	GZL	O3-C3	2.12	1.48	1.43
13	dB	3	GZL	O3-C3	2.12	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	CA	3	GZL	O3-C3	2.12	1.48	1.43
18	DE	3	GZL	O3-C3	2.12	1.48	1.43
20	uE	3	GZL	O3-C3	2.12	1.48	1.43
6	1C	3	GZL	O3-C3	2.11	1.48	1.43
18	9D	3	GZL	O3-C3	2.11	1.48	1.43
18	rE	3	GZL	O3-C3	2.11	1.48	1.43
18	yE	3	GZL	O3-C3	2.11	1.48	1.43
6	9B	3	GZL	O3-C3	2.11	1.48	1.43
13	vD	3	GZL	O3-C3	2.11	1.48	1.43
19	LE	3	GZL	O3-C3	2.11	1.48	1.43
18	JE	3	GZL	O3-C3	2.11	1.47	1.43
13	wC	3	GZL	O3-C3	2.11	1.47	1.43
14	nB	3	GZL	O3-C3	2.11	1.47	1.43
18	IE	3	GZL	O3-C3	2.11	1.47	1.43
20	hE	3	GZL	O3-C3	2.11	1.47	1.43
6	oE	3	GZL	O3-C3	2.11	1.47	1.43
13	gC	3	GZL	O3-C3	2.11	1.47	1.43
6	5B	3	GZL	O3-C3	2.11	1.47	1.43
13	WB	3	GZL	O3-C3	2.11	1.47	1.43
18	tE	3	GZL	O3-C3	2.11	1.47	1.43
6	R	3	GZL	O3-C3	2.11	1.47	1.43
14	hC	3	GZL	O3-C3	2.10	1.47	1.43
18	cE	3	GZL	O3-C3	2.10	1.47	1.43
24	YE	3	GZL	O3-C3	2.10	1.47	1.43
15	2D	3	GZL	O3-C3	2.10	1.47	1.43
24	lE	3	GZL	O3-C3	2.10	1.47	1.43
6	CB	3	GZL	O3-C3	2.10	1.47	1.43
6	AA	3	GZL	O3-C3	2.10	1.47	1.43
6	8A	3	GZL	O3-C3	2.10	1.47	1.43
6	aB	3	GZL	O3-C3	2.10	1.47	1.43
22	wE	3	GZL	O3-C3	2.10	1.47	1.43
6	bE	3	GZL	O3-C3	2.10	1.47	1.43
14	kC	3	GZL	O3-C3	2.10	1.47	1.43
6	LA	3	GZL	O3-C3	2.09	1.47	1.43
6	PA	3	GZL	O3-C3	2.09	1.47	1.43
14	p	3	GZL	O3-C3	2.09	1.47	1.43
19	AE	3	GZL	O3-C3	2.09	1.47	1.43
6	6D	3	GZL	O3-C3	2.08	1.47	1.43
15	AB	3	GZL	O3-C3	2.08	1.47	1.43
6	8	3	GZL	O3-C3	2.08	1.47	1.43
20	sE	3	GZL	O3-C3	2.08	1.47	1.43
20	jE	3	GZL	O3-C3	2.08	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BB	3	GZL	O3-C3	2.08	1.47	1.43
12	oA	3	GZL	O3-C3	2.08	1.47	1.43
6	6A	3	GZL	O3-C3	2.07	1.47	1.43
6	7D	3	GZL	O3-C3	2.07	1.47	1.43
6	OE	3	GZL	O3-C3	2.07	1.47	1.43
6	cB	3	GZL	O3-C3	2.07	1.47	1.43
14	nA	3	GZL	O3-C3	2.07	1.47	1.43
21	vE	3	GZL	O3-C3	2.07	1.47	1.43
22	QE	3	GZL	O3-C3	2.07	1.47	1.43
14	qA	3	GZL	O3-C3	2.07	1.47	1.43
6	ME	3	GZL	O3-C3	2.07	1.47	1.43
18	fE	3	GZL	O3-C3	2.07	1.47	1.43
20	UE	3	GZL	O3-C3	2.07	1.47	1.43
13	2A	3	GZL	O3-C3	2.06	1.47	1.43
13	YB	3	GZL	O3-C3	2.06	1.47	1.43
20	CE	3	GZL	O3-C3	2.06	1.47	1.43
21	kE	3	GZL	O3-C3	2.06	1.47	1.43
6	9	3	GZL	O3-C3	2.06	1.47	1.43
18	PE	3	GZL	O3-C3	2.06	1.47	1.43
6	7A	3	GZL	O3-C3	2.06	1.47	1.43
18	SE	3	GZL	O3-C3	2.06	1.47	1.43
6	EA	3	GZL	O3-C3	2.06	1.47	1.43
15	fB	3	GZL	O3-C3	2.05	1.47	1.43
23	XE	3	GZL	O3-C3	2.05	1.47	1.43
22	RE	3	GZL	O3-C3	2.05	1.47	1.43
6	JC	3	GZL	O3-C3	2.05	1.47	1.43
13	mA	3	GZL	O3-C3	2.04	1.47	1.43
6	mE	3	GZL	O3-C3	2.04	1.47	1.43
12	fC	3	GZL	O3-C3	2.04	1.47	1.43
6	8D	3	GZL	O3-C3	2.04	1.47	1.43
15	7B	3	GZL	O3-C3	2.04	1.47	1.43
13	4A	3	GZL	O3-C3	2.03	1.47	1.43
22	VE	3	GZL	O3-C3	2.03	1.47	1.43
6	FC	3	GZL	O3-C3	2.03	1.47	1.43
22	iE	3	GZL	O3-C3	2.02	1.47	1.43
15	eB	3	GZL	O3-C3	2.02	1.47	1.43
19	qE	3	GZL	O3-C3	2.01	1.47	1.43
6	CD	3	GZL	O3-C3	2.01	1.47	1.43

All (834) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3A	3	GZL	C1-O4-C4	-12.65	82.02	107.84
6	N	3	GZL	C5-C4-C3	-9.92	102.60	115.86
6	CD	3	GZL	C1-O4-C4	-9.73	87.98	107.84
6	0B	3	GZL	C1-O4-C4	-9.43	88.59	107.84
6	LA	3	GZL	C1-O4-C4	-9.36	88.73	107.84
13	4	3	GZL	O5-C5-C4	-9.22	87.02	109.14
6	uD	3	GZL	C1-O4-C4	-9.09	89.28	107.84
6	3A	3	GZL	O5-C5-C4	-9.04	87.47	109.14
6	XB	3	GZL	C1-O4-C4	-8.97	89.53	107.84
6	xC	3	GZL	C1-O4-C4	-8.91	89.65	107.84
6	0B	3	GZL	O5-C5-C4	-8.07	89.78	109.14
6	uD	3	GZL	O5-C5-C4	-8.02	89.92	109.14
6	xC	3	GZL	O5-C5-C4	-7.94	90.10	109.14
6	XB	3	GZL	O5-C5-C4	-7.90	90.19	109.14
6	CD	3	GZL	O5-C5-C4	-7.75	90.56	109.14
6	LA	3	GZL	O5-C5-C4	-7.42	91.35	109.14
6	FC	3	GZL	C5-C4-C3	-7.40	105.97	115.86
6	LA	3	GZL	O4-C4-C5	7.32	125.67	108.86
6	3A	3	GZL	O4-C4-C5	7.24	125.49	108.86
6	CD	3	GZL	O4-C4-C5	7.21	125.43	108.86
6	uD	3	GZL	O4-C4-C5	6.96	124.86	108.86
6	xC	3	GZL	O4-C4-C5	6.91	124.73	108.86
6	0B	3	GZL	O4-C4-C5	6.87	124.64	108.86
6	XB	3	GZL	O4-C4-C5	6.80	124.49	108.86
14	s	3	GZL	C5-C4-C3	-5.98	107.86	115.86
6	N	3	GZL	O2-C2-C3	5.95	122.53	111.27
17	5D	4	MAN	C1-C2-C3	5.85	116.85	109.67
18	9D	1	FUB	O2-C2-C3	5.79	122.23	111.27
14	kC	3	GZL	C5-C4-C3	-5.71	108.23	115.86
14	nA	3	GZL	C5-C4-C3	-5.20	108.90	115.86
6	6D	3	GZL	C5-C4-C3	-5.19	108.91	115.86
14	qA	3	GZL	C5-C4-C3	-5.14	108.98	115.86
18	pE	1	FUB	O2-C2-C3	5.03	120.80	111.27
14	eD	3	GZL	C5-C4-C3	-5.01	109.16	115.86
6	4B	3	GZL	C5-C4-C3	-4.89	109.31	115.86
14	KB	3	GZL	C5-C4-C3	-4.89	109.33	115.86
6	mE	3	GZL	C5-C4-C3	-4.86	109.36	115.86
18	DE	3	GZL	C5-C4-C3	-4.85	109.37	115.86
22	eE	3	GZL	C5-C4-C3	-4.81	109.43	115.86
17	5D	4	MAN	C1-O5-C5	4.75	118.63	112.19
17	5D	4	MAN	O5-C1-C2	4.75	118.10	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	OE	3	GZL	C5-C4-C3	-4.75	109.51	115.86
18	cE	3	GZL	C5-C4-C3	-4.72	109.55	115.86
15	5C	3	GZL	C5-C4-C3	-4.72	109.55	115.86
20	CE	3	GZL	C5-C4-C3	-4.71	109.57	115.86
18	yE	3	GZL	C5-C4-C3	-4.70	109.57	115.86
14	hC	3	GZL	C5-C4-C3	-4.69	109.59	115.86
6	cB	3	GZL	C5-C4-C3	-4.68	109.59	115.86
6	nE	3	GZL	C5-C4-C3	-4.68	109.60	115.86
20	jE	3	GZL	C5-C4-C3	-4.68	109.61	115.86
19	aE	3	GZL	C5-C4-C3	-4.67	109.62	115.86
18	IE	3	GZL	C5-C4-C3	-4.66	109.62	115.86
20	HE	3	GZL	C5-C4-C3	-4.66	109.63	115.86
19	lE	3	GZL	C5-C4-C3	-4.65	109.64	115.86
6	oE	3	GZL	C5-C4-C3	-4.64	109.65	115.86
22	dE	3	GZL	C5-C4-C3	-4.63	109.67	115.86
20	TE	3	GZL	C5-C4-C3	-4.62	109.68	115.86
6	8A	3	GZL	C5-C4-C3	-4.60	109.70	115.86
6	bE	3	GZL	C5-C4-C3	-4.60	109.71	115.86
18	pE	3	GZL	C5-C4-C3	-4.59	109.72	115.86
18	zE	3	GZL	C5-C4-C3	-4.58	109.73	115.86
20	uE	3	GZL	C5-C4-C3	-4.54	109.78	115.86
20	xE	3	GZL	C5-C4-C3	-4.54	109.79	115.86
6	R	3	GZL	C5-C4-C3	-4.54	109.80	115.86
6	8D	3	GZL	C5-C4-C3	-4.52	109.81	115.86
13	4A	3	GZL	C5-C4-C3	-4.52	109.81	115.86
6	ME	3	GZL	C5-C4-C3	-4.52	109.81	115.86
20	sE	3	GZL	C5-C4-C3	-4.51	109.83	115.86
6	lC	3	GZL	C5-C4-C3	-4.51	109.83	115.86
13	yC	3	GZL	C5-C4-C3	-4.50	109.84	115.86
20	EE	3	GZL	C5-C4-C3	-4.50	109.84	115.86
22	VE	3	GZL	C5-C4-C3	-4.50	109.85	115.86
13	9A	3	GZL	C1-C2-C3	-4.49	94.78	101.63
6	yD	3	GZL	C5-C4-C3	-4.47	109.88	115.86
15	4C	3	GZL	C5-C4-C3	-4.44	109.92	115.86
13	vD	3	GZL	C5-C4-C3	-4.43	109.93	115.86
19	NE	3	GZL	C5-C4-C3	-4.42	109.95	115.86
14	HB	3	GZL	C5-C4-C3	-4.41	109.96	115.86
6	2C	3	GZL	C5-C4-C3	-4.41	109.97	115.86
13	wD	3	GZL	C5-C4-C3	-4.40	109.98	115.86
12	FB	3	GZL	C5-C4-C3	-4.39	109.99	115.86
6	zD	3	GZL	C5-C4-C3	-4.38	110.00	115.86
18	tE	3	GZL	C5-C4-C3	-4.36	110.04	115.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6C	3	GZL	C5-C4-C3	-4.34	110.06	115.86
13	4	3	GZL	C5-C4-C3	4.33	121.66	115.86
6	bB	3	GZL	C5-C4-C3	-4.33	110.07	115.86
19	qE	3	GZL	C5-C4-C3	-4.32	110.08	115.86
18	JE	3	GZL	C5-C4-C3	-4.32	110.08	115.86
18	9D	1	FUB	C1-C2-C3	-4.32	95.05	101.63
24	lE	3	GZL	C5-C4-C3	-4.32	110.08	115.86
18	SE	3	GZL	C5-C4-C3	-4.31	110.09	115.86
22	QE	3	GZL	C5-C4-C3	-4.31	110.10	115.86
15	eB	3	GZL	C5-C4-C3	-4.31	110.10	115.86
13	lB	3	GZL	C5-C4-C3	-4.30	110.11	115.86
13	2B	3	GZL	C5-C4-C3	-4.30	110.11	115.86
15	2D	3	GZL	C5-C4-C3	-4.30	110.11	115.86
6	6A	3	GZL	C5-C4-C3	-4.29	110.12	115.86
12	iB	3	GZL	C5-C4-C3	-4.29	110.12	115.86
6	JC	3	GZL	C5-C4-C3	-4.29	110.13	115.86
20	hE	3	GZL	C5-C4-C3	-4.28	110.14	115.86
6	7D	3	GZL	C5-C4-C3	-4.28	110.14	115.86
22	iE	3	GZL	C5-C4-C3	-4.27	110.15	115.86
18	rE	3	GZL	C5-C4-C3	-4.26	110.16	115.86
13	6	3	GZL	C5-C4-C3	-4.25	110.18	115.86
18	PE	3	GZL	C5-C4-C3	-4.25	110.18	115.86
22	GE	3	GZL	C5-C4-C3	-4.24	110.19	115.86
12	lB	3	GZL	C5-C4-C3	-4.24	110.19	115.86
18	BE	3	GZL	C5-C4-C3	-4.24	110.19	115.86
6	9B	3	GZL	C5-C4-C3	-4.23	110.20	115.86
6	xD	3	GZL	C5-C4-C3	-4.23	110.20	115.86
23	XE	3	GZL	C5-C4-C3	-4.23	110.20	115.86
6	PA	3	GZL	C5-C4-C3	-4.23	110.21	115.86
24	YE	3	GZL	C5-C4-C3	-4.23	110.21	115.86
6	8	3	GZL	C5-C4-C3	-4.22	110.22	115.86
19	AE	3	GZL	C5-C4-C3	-4.22	110.22	115.86
6	7A	3	GZL	C5-C4-C3	-4.21	110.23	115.86
6	GD	3	GZL	C5-C4-C3	-4.20	110.25	115.86
6	aB	3	GZL	C5-C4-C3	-4.20	110.25	115.86
15	DA	3	GZL	C5-C4-C3	-4.19	110.25	115.86
22	wE	3	GZL	C5-C4-C3	-4.19	110.26	115.86
14	kB	3	GZL	C5-C4-C3	-4.19	110.26	115.86
12	iC	3	GZL	C5-C4-C3	-4.17	110.28	115.86
6	5	3	GZL	C5-C4-C3	-4.17	110.29	115.86
15	7B	3	GZL	C5-C4-C3	-4.17	110.29	115.86
20	WE	3	GZL	C5-C4-C3	-4.16	110.30	115.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3B	3	GZL	C5-C4-C3	-4.14	110.33	115.86
18	KE	3	GZL	C5-C4-C3	-4.14	110.33	115.86
13	zC	3	GZL	C5-C4-C3	-4.12	110.35	115.86
14	p	3	GZL	C5-C4-C3	-4.12	110.35	115.86
6	5B	3	GZL	C5-C4-C3	-4.12	110.36	115.86
6	0C	3	GZL	C5-C4-C3	-4.11	110.37	115.86
6	9	3	GZL	C5-C4-C3	-4.09	110.39	115.86
13	ZB	3	GZL	C5-C4-C3	-4.09	110.39	115.86
18	fE	3	GZL	C5-C4-C3	-4.09	110.39	115.86
6	gB	3	GZL	C5-C4-C3	-4.08	110.40	115.86
6	6A	2	FUB	O2-C2-C3	4.07	118.98	111.27
12	lB	3	GZL	C5-C4-C3	-4.07	110.42	115.86
21	FE	3	GZL	C5-C4-C3	-4.07	110.42	115.86
13	3C	3	GZL	C5-C4-C3	-4.06	110.43	115.86
19	LE	3	GZL	C5-C4-C3	-4.06	110.43	115.86
13	BA	3	GZL	C1-C2-C3	-4.06	95.45	101.63
12	q	3	GZL	C5-C4-C3	-4.05	110.44	115.86
18	0E	3	GZL	C5-C4-C3	-4.05	110.45	115.86
15	1D	3	GZL	C5-C4-C3	-4.05	110.45	115.86
15	fB	3	GZL	C5-C4-C3	-4.04	110.45	115.86
12	cD	3	GZL	C5-C4-C3	-4.02	110.48	115.86
13	mA	3	GZL	C5-C4-C3	-4.02	110.49	115.86
14	nB	3	GZL	C5-C4-C3	-4.02	110.49	115.86
22	RE	3	GZL	C5-C4-C3	-4.01	110.49	115.86
6	ZE	3	GZL	C5-C4-C3	-4.00	110.51	115.86
13	GB	3	GZL	C5-C4-C3	-4.00	110.51	115.86
6	3D	3	GZL	C5-C4-C3	-3.97	110.55	115.86
21	vE	3	GZL	C5-C4-C3	-3.97	110.55	115.86
13	0D	3	GZL	C5-C4-C3	-3.95	110.58	115.86
14	hD	3	GZL	C5-C4-C3	-3.94	110.59	115.86
13	gC	3	GZL	C5-C4-C3	-3.93	110.60	115.86
18	9D	3	GZL	C5-C4-C3	-3.93	110.60	115.86
13	dB	3	GZL	C1-C2-C3	-3.93	95.64	101.63
20	UE	3	GZL	C5-C4-C3	-3.91	110.64	115.86
12	fC	3	GZL	C5-C4-C3	-3.89	110.66	115.86
18	pE	1	FUB	C1-C2-C3	-3.89	95.70	101.63
6	AA	3	GZL	C5-C4-C3	-3.89	110.66	115.86
12	oA	3	GZL	C5-C4-C3	-3.89	110.66	115.86
6	EA	3	GZL	C5-C4-C3	-3.88	110.67	115.86
6	CB	3	GZL	C5-C4-C3	-3.84	110.72	115.86
13	dD	3	GZL	C5-C4-C3	-3.84	110.73	115.86
6	CD	3	GZL	C5-C4-C3	-3.81	110.77	115.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	6B	3	GZL	C5-C4-C3	-3.80	110.77	115.86
6	XB	3	GZL	C1-C2-C3	-3.80	95.84	101.63
20	gE	3	GZL	C5-C4-C3	-3.79	110.80	115.86
6	LA	3	GZL	C5-C4-C3	-3.78	110.80	115.86
13	o	3	GZL	C5-C4-C3	-3.76	110.83	115.86
13	WB	3	GZL	C5-C4-C3	-3.76	110.84	115.86
13	jB	3	GZL	C5-C4-C3	-3.75	110.85	115.86
16	FA	2	NAG	O5-C1-C2	3.75	117.20	111.29
13	7	3	GZL	C5-C4-C3	-3.75	110.85	115.86
6	xC	3	GZL	C1-C2-C3	-3.74	95.93	101.63
17	DB	6	MAN	O5-C1-C2	-3.72	105.03	110.77
21	kE	3	GZL	C5-C4-C3	-3.64	110.99	115.86
13	zB	3	GZL	C5-C4-C3	-3.64	110.99	115.86
12	fD	3	GZL	C5-C4-C3	-3.62	111.02	115.86
16	4D	2	NAG	C1-O5-C5	3.59	117.06	112.19
6	uD	3	GZL	C1-C2-C3	-3.57	96.19	101.63
13	6B	3	GZL	C1-C2-C3	-3.56	96.21	101.63
16	AC	2	NAG	O5-C1-C2	3.56	116.90	111.29
13	4	3	GZL	O3-C3-C2	-3.55	103.47	112.04
6	xD	3	GZL	C1-C2-C3	3.55	107.04	101.63
13	dB	3	GZL	C5-C4-C3	-3.55	111.12	115.86
15	8B	3	GZL	C5-C4-C3	-3.46	111.23	115.86
17	GA	3	BMA	C1-O5-C5	3.45	116.87	112.19
16	FA	2	NAG	C1-O5-C5	3.38	116.77	112.19
12	n	3	GZL	C5-C4-C3	-3.37	111.36	115.86
12	FB	3	GZL	C1-C2-C3	3.36	106.75	101.63
6	6D	3	GZL	C1-C2-C3	3.36	106.75	101.63
13	2A	2	FUB	O2-C2-C3	3.36	117.62	111.27
6	0B	3	GZL	C1-C2-C3	-3.35	96.53	101.63
17	5D	1	NAG	C1-O5-C5	3.31	116.68	112.19
14	KB	3	GZL	C1-C2-C3	3.31	106.67	101.63
14	HB	3	GZL	C1-C2-C3	3.29	106.63	101.63
6	FC	2	FUB	O2-C2-C1	3.26	120.68	110.97
13	BA	3	GZL	C5-C4-C3	-3.24	111.53	115.86
19	qE	1	FUB	C1-C2-C3	3.22	106.53	101.63
15	AB	3	GZL	C5-C4-C3	-3.21	111.56	115.86
17	DB	6	MAN	C3-C4-C5	3.19	115.92	110.24
15	BB	3	GZL	C5-C4-C3	-3.17	111.62	115.86
24	lE	1	FUB	C1-C2-C3	3.16	106.45	101.63
13	BA	3	GZL	C1-O4-C4	-3.16	101.39	107.84
24	YE	1	FUB	C1-C2-C3	3.15	106.44	101.63
6	LA	3	GZL	O5-C5-C6	3.15	116.53	109.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3B	2	FUB	O2-C2-C3	3.14	117.22	111.27
13	YB	3	GZL	C5-C4-C3	-3.13	111.67	115.86
6	3B	3	GZL	C1-C2-C3	3.13	106.39	101.63
13	9A	3	GZL	C1-O4-C4	-3.12	101.47	107.84
15	CA	3	GZL	C5-C4-C3	-3.07	111.75	115.86
17	7C	1	NAG	C1-O5-C5	3.06	116.34	112.19
12	1A	3	GZL	C5-C4-C3	-3.06	111.77	115.86
6	LA	2	FUB	C1-C2-C3	3.06	106.28	101.63
17	7C	4	MAN	C1-O5-C5	3.05	116.32	112.19
21	FE	1	FUB	C1-C2-C3	3.03	106.24	101.63
16	4D	2	NAG	O5-C1-C2	3.02	116.05	111.29
6	cB	2	FUB	C1-C2-C3	3.01	106.22	101.63
6	5B	2	FUB	C1-C2-C3	3.00	106.19	101.63
4	DC	1	FUB	C1-C2-C3	2.99	106.19	101.63
6	FC	1	FUB	O2-C2-C3	2.99	116.93	111.27
20	TE	1	FUB	C1-C2-C3	2.99	106.18	101.63
6	FC	3	GZL	O4-C1-C2	-2.98	100.23	105.99
18	cE	1	FUB	C1-C2-C3	2.98	106.16	101.63
13	4	2	FUB	O2-C2-C3	2.98	116.90	111.27
6	5	2	FUB	O2-C2-C3	2.97	116.89	111.27
13	5A	3	GZL	C5-C4-C3	-2.97	111.89	115.86
7	KC	1	FUB	C1-C2-C3	2.96	106.13	101.63
3	NA	1	FUB	C1-C2-C3	2.96	106.13	101.63
6	2C	2	FUB	C1-C2-C3	2.96	106.13	101.63
4	d	4	AHR	C1-C2-C3	2.95	106.12	101.63
7	QA	1	FUB	C1-C2-C3	2.94	106.10	101.63
13	9A	3	GZL	C5-C4-C3	-2.94	111.93	115.86
18	yE	3	GZL	C1-C2-C3	2.93	106.10	101.63
18	9D	5	AHR	C1-C2-C3	2.93	106.09	101.63
12	oA	1	FUB	C1-C2-C3	2.93	106.09	101.63
13	4	3	GZL	O4-C4-C3	2.92	108.82	103.59
7	S	1	FUB	C1-C2-C3	2.92	106.08	101.63
14	p	3	GZL	O5-C5-C6	2.92	115.99	109.14
18	DE	1	FUB	C1-C2-C3	2.91	106.07	101.63
11	i	1	FUB	O2-C2-C3	2.91	116.77	111.27
19	AE	1	FUB	C1-C2-C3	2.90	106.05	101.63
14	kB	3	GZL	C1-C2-C3	2.90	106.05	101.63
7	HD	1	FUB	C1-C2-C3	2.90	106.05	101.63
10	mC	5	AHR	C1-C2-C3	2.89	106.03	101.63
12	lB	1	FUB	C1-C2-C3	2.89	106.03	101.63
6	9B	3	GZL	C1-C2-C3	2.89	106.03	101.63
10	3	1	FUB	C1-C2-C3	2.88	106.02	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	DA	4	AHR	C1-C2-C3	2.86	105.99	101.63
22	VE	1	FUB	O2-C2-C3	2.86	116.68	111.27
12	n	4	AHR	C1-C2-C3	2.85	105.97	101.63
19	aE	3	GZL	O4-C4-C3	2.85	108.68	103.59
10	MB	5	AHR	C1-C2-C3	2.85	105.97	101.63
4	OC	4	AHR	C1-C2-C3	2.85	105.97	101.63
18	zE	3	GZL	O4-C4-C3	2.84	108.67	103.59
17	DB	4	MAN	C1-C2-C3	2.84	113.15	109.67
6	AA	2	FUB	C1-C2-C3	2.84	105.95	101.63
13	4	3	GZL	C1-C2-C3	2.83	105.94	101.63
7	UD	1	FUB	C1-C2-C3	2.81	105.91	101.63
4	PC	4	AHR	O2-C2-C1	2.81	119.34	110.97
4	RD	4	AHR	C1-C2-C3	2.81	105.91	101.63
3	vB	1	FUB	C1-C2-C3	2.81	105.90	101.63
6	4B	3	GZL	C1-C2-C3	2.80	105.90	101.63
6	0C	2	FUB	O2-C2-C3	2.80	116.56	111.27
10	1A	1	FUB	C1-C2-C3	2.79	105.88	101.63
11	gA	1	FUB	O2-C2-C3	2.79	116.55	111.27
6	0B	2	FUB	O2-C2-C3	2.79	116.55	111.27
6	zD	2	FUB	C1-C2-C3	2.79	105.87	101.63
10	a	4	AHR	C1-C2-C3	2.79	105.87	101.63
22	dE	4	AHR	C1-C2-C3	2.78	105.87	101.63
6	8A	2	FUB	C1-C2-C3	2.78	105.86	101.63
17	GA	3	BMA	C2-C3-C4	-2.78	106.09	110.89
18	yE	3	GZL	O4-C4-C3	2.77	108.55	103.59
16	AC	1	NAG	C4-C3-C2	2.77	115.08	111.02
3	rD	1	FUB	C1-C2-C3	2.77	105.85	101.63
6	N	3	GZL	O5-C5-C6	2.77	115.64	109.14
8	MC	4	AHR	C1-C2-C3	2.76	105.84	101.63
6	oE	3	GZL	C1-C2-C3	2.76	105.84	101.63
6	CD	3	GZL	O5-C5-C6	2.76	115.61	109.14
6	bB	1	FUB	C1-C2-C3	2.75	105.83	101.63
18	pE	5	AHR	C1-C2-C3	2.75	105.83	101.63
14	eD	3	GZL	C1-C2-C3	2.75	105.82	101.63
22	wE	5	AHR	O2-C2-C3	2.75	116.48	111.27
12	lA	4	AHR	C1-C2-C3	2.75	105.82	101.63
4	tA	4	AHR	C1-C2-C3	2.75	105.82	101.63
6	nE	1	FUB	C1-C2-C3	2.75	105.82	101.63
18	PE	1	FUB	C1-C2-C3	2.75	105.81	101.63
5	M	5	AHR	C1-C2-C3	2.75	105.81	101.63
18	IE	3	GZL	O4-C4-C3	2.74	108.50	103.59
4	Z	4	AHR	C1-C2-C3	2.74	105.80	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	iA	4	AHR	C1-C2-C3	2.74	105.80	101.63
13	wC	3	GZL	C5-C4-C3	-2.74	112.20	115.86
7	dA	2	FUB	C1-C2-C3	2.74	105.80	101.63
3	ZA	1	FUB	C1-C2-C3	2.73	105.80	101.63
18	rE	2	FUB	C1-C2-C3	2.73	105.79	101.63
9	j	1	FUB	C1-C2-C3	2.73	105.79	101.63
13	BA	2	FUB	C1-C2-C3	2.73	105.78	101.63
14	hC	3	GZL	C1-C2-C3	2.72	105.78	101.63
13	dB	3	GZL	O4-C1-C2	-2.72	100.72	105.99
18	IE	5	AHR	C1-C2-C3	2.71	105.76	101.63
13	BA	3	GZL	O4-C1-C2	-2.71	100.75	105.99
22	GE	5	AHR	O2-C2-C1	2.71	119.04	110.97
13	4A	4	AHR	C1-C2-C3	2.71	105.75	101.63
13	dB	3	GZL	C1-O4-C4	-2.70	102.33	107.84
6	GD	1	FUB	C1-C2-C3	2.70	105.74	101.63
10	pB	5	AHR	C1-C2-C3	2.70	105.74	101.63
13	4	3	GZL	O4-C1-C2	-2.70	100.78	105.99
4	Z	1	FUB	O2-C2-C3	2.69	116.37	111.27
10	u	5	AHR	C1-C2-C3	2.69	105.73	101.63
3	sC	1	FUB	C1-C2-C3	2.69	105.73	101.63
13	vD	4	AHR	C1-C2-C3	2.69	105.73	101.63
10	PD	1	FUB	C1-C2-C3	2.68	105.71	101.63
10	sA	5	AHR	C1-C2-C3	2.68	105.71	101.63
19	1E	1	FUB	C1-C2-C3	2.67	105.70	101.63
3	b	1	FUB	C1-C2-C3	2.67	105.70	101.63
18	rE	5	AHR	C1-C2-C3	2.67	105.70	101.63
13	6B	3	GZL	O4-C1-C2	-2.67	100.83	105.99
6	6D	2	FUB	C1-C2-C3	2.67	105.69	101.63
13	7	4	AHR	C1-C2-C3	2.66	105.69	101.63
22	VE	4	AHR	C1-C2-C3	2.66	105.69	101.63
18	yE	5	AHR	C1-C2-C3	2.66	105.68	101.63
6	gB	3	GZL	C1-C2-C3	2.66	105.67	101.63
4	gD	1	FUB	C1-C2-C3	2.65	105.67	101.63
4	iA	1	FUB	C1-C2-C3	2.65	105.67	101.63
22	wE	5	AHR	O2-C2-C1	2.65	118.86	110.97
5	BD	4	AHR	C1-C2-C3	2.65	105.66	101.63
24	1E	2	FUB	C1-C2-C3	2.64	105.66	101.63
19	1E	3	GZL	O4-C4-C3	2.64	108.32	103.59
22	eE	1	FUB	O2-C2-C3	2.64	116.27	111.27
18	BE	5	AHR	C1-C2-C3	2.64	105.65	101.63
10	sD	1	FUB	C1-C2-C3	2.64	105.65	101.63
12	lA	5	AHR	C1-C2-C3	2.64	105.65	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	iE	1	FUB	O2-C2-C3	2.64	116.26	111.27
18	zE	3	GZL	C1-C2-C3	2.64	105.65	101.63
15	AB	5	AHR	C1-C2-C3	2.64	105.64	101.63
22	iE	6	AHR	C1-C2-C3	2.63	105.64	101.63
4	AD	1	FUB	C1-C2-C3	2.63	105.64	101.63
20	WE	4	AHR	C1-C2-C3	2.63	105.64	101.63
22	dE	1	FUB	C1-C2-C3	2.63	105.64	101.63
12	iC	1	FUB	C1-C2-C3	2.63	105.63	101.63
13	9A	3	GZL	O4-C1-C2	-2.63	100.91	105.99
7	f	2	FUB	C1-C2-C3	2.63	105.63	101.63
18	IE	4	AHR	C1-C2-C3	2.63	105.63	101.63
10	PD	4	AHR	C1-C2-C3	2.61	105.61	101.63
18	BE	2	FUB	C1-C2-C3	2.61	105.61	101.63
13	6B	3	GZL	C1-O4-C4	-2.61	102.52	107.84
17	7C	3	BMA	C2-C3-C4	-2.60	106.40	110.89
6	yD	2	FUB	C1-C2-C3	2.60	105.59	101.63
18	yE	4	AHR	C1-C2-C3	2.59	105.58	101.63
13	YB	4	AHR	C1-C2-C3	2.59	105.58	101.63
10	VB	3	FUB	O3-C3-C2	2.59	118.29	112.04
4	AD	4	AHR	C1-C2-C3	2.59	105.58	101.63
4	tA	1	FUB	C1-C2-C3	2.59	105.57	101.63
16	AC	2	NAG	C1-O5-C5	2.59	115.70	112.19
22	GE	5	AHR	O2-C2-C3	2.59	116.17	111.27
6	N	2	FUB	O2-C2-C1	2.59	118.67	110.97
12	fC	4	AHR	C1-C2-C3	2.58	105.56	101.63
14	nA	3	GZL	O5-C5-C6	2.58	115.20	109.14
6	aB	2	FUB	O2-C2-C3	2.58	116.16	111.27
11	XD	3	AHR	C1-C2-C3	2.58	105.56	101.63
17	GA	3	BMA	C3-C4-C5	-2.58	105.64	110.24
3	e	3	FUB	C1-C2-C3	2.58	105.55	101.63
10	a	1	FUB	C1-C2-C3	2.58	105.55	101.63
24	lE	6	AHR	C1-C2-C3	2.57	105.55	101.63
17	DB	3	BMA	C2-C3-C4	-2.57	106.45	110.89
18	cE	3	GZL	O4-C4-C3	2.57	108.19	103.59
10	sA	4	AHR	C1-C2-C3	2.57	105.54	101.63
6	6D	3	GZL	O4-C4-C3	2.57	108.18	103.59
3	SB	2	FUB	C1-C2-C3	2.57	105.54	101.63
22	QE	4	AHR	C1-C2-C3	2.56	105.54	101.63
3	T	1	FUB	C1-C2-C3	2.56	105.53	101.63
19	LE	2	FUB	C1-C2-C3	2.56	105.53	101.63
7	ZC	3	FUB	C1-C2-C3	2.56	105.53	101.63
10	VB	5	AHR	C1-C2-C3	2.56	105.53	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	KE	3	GZL	O4-C4-C3	2.55	108.16	103.59
20	sE	1	FUB	C1-C2-C3	2.55	105.52	101.63
3	uA	3	FUB	C1-C2-C3	2.55	105.52	101.63
3	vA	3	FUB	C1-C2-C3	2.55	105.52	101.63
13	3C	2	FUB	C1-C2-C3	2.55	105.52	101.63
13	vD	3	GZL	O4-C4-C3	2.55	108.15	103.59
17	GA	1	NAG	C1-O5-C5	2.55	115.64	112.19
17	5D	3	BMA	C2-C3-C4	-2.55	106.49	110.89
20	HE	3	GZL	O4-C4-C3	2.54	108.13	103.59
13	gC	4	AHR	C1-C2-C3	2.54	105.49	101.63
13	wC	4	AHR	C1-C2-C3	2.54	105.49	101.63
3	WC	1	FUB	O2-C2-C3	2.54	116.07	111.27
6	nE	3	GZL	O4-C4-C3	2.54	108.12	103.59
6	mE	3	GZL	C1-C2-C3	2.53	105.49	101.63
18	9D	1	FUB	O3-C3-C4	2.53	118.38	111.05
3	SB	1	FUB	C1-C2-C3	2.53	105.49	101.63
3	TC	3	FUB	C1-C2-C3	2.53	105.48	101.63
3	dC	3	FUB	C1-C2-C3	2.53	105.48	101.63
18	JE	3	GZL	O4-C4-C3	2.53	108.11	103.59
6	FC	3	GZL	O2-C2-C1	2.52	118.49	110.97
15	5C	1	FUB	C1-C2-C3	2.52	105.47	101.63
3	TA	2	FUB	C1-C2-C3	2.52	105.47	101.63
6	0C	3	GZL	C1-C2-C3	2.52	105.47	101.63
20	sE	3	GZL	O4-C4-C3	2.52	108.09	103.59
21	kE	5	AHR	C1-C2-C3	2.51	105.46	101.63
6	CD	2	FUB	O2-C2-C3	2.51	116.02	111.27
6	9B	2	FUB	C1-C2-C3	2.50	105.44	101.63
3	xB	1	FUB	C1-C2-C3	2.50	105.44	101.63
12	IB	5	AHR	C1-C2-C3	2.50	105.44	101.63
15	CA	4	AHR	O2-C2-C1	2.50	118.42	110.97
10	mC	1	FUB	C1-C2-C3	2.50	105.44	101.63
22	GE	1	FUB	O2-C2-C3	2.50	116.00	111.27
24	YE	5	AHR	C1-C2-C3	2.50	105.43	101.63
20	xE	3	GZL	O4-C4-C3	2.50	108.06	103.59
22	GE	2	FUB	O2-C2-C3	2.50	115.99	111.27
10	vC	1	FUB	C1-C2-C3	2.50	105.43	101.63
22	QE	6	AHR	C1-C2-C3	2.49	105.43	101.63
4	YC	4	AHR	C1-C2-C3	2.49	105.42	101.63
4	OD	4	AHR	C1-C2-C3	2.49	105.42	101.63
14	s	3	GZL	C1-C2-C3	2.49	105.42	101.63
22	dE	6	AHR	C1-C2-C3	2.49	105.42	101.63
22	RE	5	AHR	C1-C2-C3	2.49	105.42	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	wE	5	AHR	C1-C2-C3	2.48	105.41	101.63
20	CE	3	GZL	O4-C4-C3	2.48	108.03	103.59
6	3D	2	FUB	C1-C2-C3	2.48	105.41	101.63
6	7D	3	GZL	O4-C1-C2	-2.47	101.20	105.99
15	5C	3	GZL	O4-C4-C3	2.47	108.02	103.59
14	kC	3	GZL	C1-C2-C3	2.47	105.40	101.63
4	jC	1	FUB	C1-C2-C3	2.47	105.40	101.63
13	ZB	3	GZL	O4-C4-C3	2.47	108.01	103.59
19	1E	4	AHR	C1-C2-C3	2.47	105.39	101.63
3	RA	1	FUB	C1-C2-C3	2.46	105.38	101.63
12	iB	3	GZL	C1-C2-C3	2.46	105.38	101.63
13	zC	3	GZL	C1-C2-C3	2.46	105.38	101.63
10	yB	1	FUB	C1-C2-C3	2.46	105.38	101.63
13	tD	4	AHR	C1-C2-C3	2.46	105.38	101.63
6	3A	2	FUB	O2-C2-C3	2.46	115.92	111.27
13	4	4	AHR	C1-C2-C3	2.46	105.37	101.63
13	6	4	AHR	C1-C2-C3	2.46	105.37	101.63
4	g	4	AHR	C1-C2-C3	2.45	105.37	101.63
3	HC	1	FUB	C1-C2-C3	2.45	105.37	101.63
12	fD	1	FUB	C1-C2-C3	2.45	105.37	101.63
13	zB	4	AHR	C1-C2-C3	2.45	105.36	101.63
18	tE	3	GZL	O4-C4-C3	2.45	107.97	103.59
10	YA	5	AHR	C1-C2-C3	2.45	105.36	101.63
24	lE	5	AHR	C1-C2-C3	2.45	105.36	101.63
20	xE	1	FUB	C1-C2-C3	2.45	105.36	101.63
12	cD	3	GZL	O4-C4-C3	2.45	107.97	103.59
15	1D	5	AHR	C1-C2-C3	2.44	105.35	101.63
15	AB	4	AHR	O2-C2-C1	2.44	118.24	110.97
13	WB	4	AHR	C1-C2-C3	2.44	105.34	101.63
11	i	3	AHR	C1-C2-C3	2.44	105.34	101.63
13	4	3	GZL	C1-O4-C4	-2.44	102.87	107.84
6	8A	1	FUB	C1-C2-C3	2.44	105.34	101.63
3	TC	1	FUB	C1-C2-C3	2.43	105.34	101.63
18	9D	4	AHR	C1-C2-C3	2.43	105.34	101.63
22	RE	6	AHR	C1-C2-C3	2.43	105.34	101.63
6	2C	3	GZL	O4-C4-C3	2.43	107.94	103.59
15	5C	5	AHR	C1-C2-C3	2.43	105.34	101.63
22	eE	6	AHR	C1-C2-C3	2.43	105.33	101.63
23	XE	1	FUB	C1-C2-C3	2.43	105.33	101.63
3	V	3	FUB	C1-C2-C3	2.43	105.32	101.63
5	KA	3	FUB	C1-C2-C3	2.42	105.32	101.63
6	7A	1	FUB	C1-C2-C3	2.42	105.32	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	2A	1	FUB	C1-C2-C3	2.42	105.32	101.63
4	L	4	AHR	C1-C2-C3	2.42	105.32	101.63
3	9C	2	FUB	C1-C2-C3	2.42	105.32	101.63
10	1A	5	AHR	C1-C2-C3	2.42	105.31	101.63
8	JD	4	AHR	C1-C2-C3	2.42	105.31	101.63
15	8B	5	AHR	C1-C2-C3	2.42	105.31	101.63
4	VD	4	AHR	C1-C2-C3	2.42	105.31	101.63
4	v	1	FUB	C1-C2-C3	2.42	105.31	101.63
13	ZB	3	GZL	C1-C2-C3	2.41	105.31	101.63
3	O	1	FUB	C1-C2-C3	2.41	105.31	101.63
18	DE	3	GZL	O4-C4-C3	2.41	107.90	103.59
6	xC	1	FUB	C1-C2-C3	2.41	105.30	101.63
14	nB	3	GZL	C1-C2-C3	2.41	105.30	101.63
3	tC	3	FUB	C1-C2-C3	2.41	105.30	101.63
17	5D	3	BMA	C1-C2-C3	-2.41	106.70	109.67
4	LD	1	FUB	O2-C2-C3	2.41	115.83	111.27
3	oB	1	FUB	C1-C2-C3	2.41	105.30	101.63
13	WB	2	FUB	O2-C2-C3	2.41	115.83	111.27
18	BE	3	GZL	C1-C2-C3	2.41	105.29	101.63
5	M	2	FUB	C1-C2-C3	2.40	105.29	101.63
11	i	2	AHR	C1-C2-C3	2.40	105.29	101.63
3	DD	1	FUB	C1-C2-C3	2.40	105.29	101.63
3	P	1	FUB	C1-C2-C3	2.40	105.28	101.63
13	zB	2	FUB	O2-C2-C3	2.39	115.80	111.27
3	XA	3	FUB	C1-C2-C3	2.39	105.28	101.63
3	OA	1	FUB	C1-C2-C3	2.39	105.27	101.63
4	SD	4	AHR	C1-C2-C3	2.39	105.27	101.63
4	JA	4	AHR	C1-C2-C3	2.39	105.27	101.63
3	jA	3	FUB	C1-C2-C3	2.39	105.27	101.63
18	9D	1	FUB	O3-C3-C2	2.39	117.81	112.04
12	iC	4	AHR	C1-C2-C3	2.38	105.26	101.63
22	GE	5	AHR	C1-C2-C3	2.38	105.25	101.63
24	lE	4	AHR	C1-C2-C3	2.38	105.25	101.63
3	TB	2	FUB	C1-C2-C3	2.37	105.25	101.63
6	aB	3	GZL	O4-C4-C3	2.37	107.83	103.59
13	o	4	AHR	C1-C2-C3	2.37	105.24	101.63
13	jB	1	FUB	C1-C2-C3	2.37	105.24	101.63
3	0	1	FUB	C1-C2-C3	2.37	105.24	101.63
8	U	4	AHR	C1-C2-C3	2.37	105.24	101.63
12	fD	2	FUB	C1-C2-C3	2.37	105.24	101.63
4	qB	4	AHR	C1-C2-C3	2.37	105.24	101.63
13	wC	2	FUB	O2-C2-C3	2.37	115.75	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	KA	4	AHR	C1-C2-C3	2.37	105.23	101.63
12	IB	4	AHR	C1-C2-C3	2.37	105.23	101.63
6	1C	3	GZL	O4-C4-C3	2.37	107.82	103.59
13	BA	2	FUB	O2-C2-C3	2.36	115.74	111.27
8	MC	5	AHR	C1-C2-C3	2.36	105.23	101.63
14	nB	4	FUB	C1-C2-C3	2.36	105.23	101.63
18	KE	4	AHR	C1-C2-C3	2.36	105.22	101.63
4	mB	1	FUB	C1-C2-C3	2.36	105.22	101.63
18	tE	1	FUB	C1-C2-C3	2.36	105.22	101.63
3	cA	3	FUB	C1-C2-C3	2.36	105.22	101.63
4	W	4	AHR	C1-C2-C3	2.36	105.22	101.63
13	mA	4	AHR	C1-C2-C3	2.36	105.22	101.63
6	OE	3	GZL	O4-C4-C3	2.35	107.80	103.59
12	iC	5	AHR	C1-C2-C3	2.35	105.22	101.63
15	fB	5	AHR	C1-C2-C3	2.35	105.22	101.63
13	2A	4	AHR	C1-C2-C3	2.35	105.21	101.63
6	zD	3	GZL	O4-C4-C3	2.35	107.80	103.59
19	NE	3	GZL	O4-C4-C3	2.35	107.79	103.59
3	z	1	FUB	C1-C2-C3	2.35	105.21	101.63
6	8D	3	GZL	C1-C2-C3	2.34	105.20	101.63
6	R	1	FUB	C1-C2-C3	2.34	105.20	101.63
18	pE	1	FUB	O3-C3-C2	2.34	117.69	112.04
6	7D	2	FUB	C1-C2-C3	2.34	105.20	101.63
6	oE	2	FUB	C1-C2-C3	2.34	105.20	101.63
6	3D	1	FUB	C1-C2-C3	2.34	105.20	101.63
3	UB	1	FUB	C1-C2-C3	2.34	105.19	101.63
12	n	5	AHR	C1-C2-C3	2.34	105.19	101.63
22	VE	5	AHR	C1-C2-C3	2.33	105.18	101.63
7	WD	4	AHR	C1-C2-C3	2.33	105.18	101.63
13	6B	2	FUB	O2-C2-C3	2.33	115.68	111.27
19	qE	3	GZL	C1-C2-C3	2.33	105.18	101.63
14	p	3	GZL	C1-C2-C3	2.33	105.18	101.63
4	UA	1	FUB	O2-C2-C3	2.33	115.67	111.27
4	LD	4	AHR	C1-C2-C3	2.33	105.17	101.63
21	kE	2	FUB	C1-C2-C3	2.33	105.17	101.63
4	qB	1	FUB	C1-C2-C3	2.32	105.17	101.63
4	cC	4	AHR	C1-C2-C3	2.32	105.17	101.63
3	IC	1	FUB	C1-C2-C3	2.32	105.16	101.63
14	nA	3	GZL	C1-C2-C3	2.32	105.16	101.63
18	SE	1	FUB	C1-C2-C3	2.32	105.16	101.63
24	YE	4	AHR	C1-C2-C3	2.32	105.16	101.63
18	0E	3	GZL	O4-C4-C3	2.32	107.73	103.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	nA	3	GZL	C1-O4-C4	-2.32	103.11	107.84
6	FC	1	FUB	O2-C2-C1	2.32	117.87	110.97
9	ND	2	FUB	C1-C2-C3	2.31	105.16	101.63
6	N	3	GZL	O6-C6-C5	-2.31	106.03	111.07
3	FD	1	FUB	C1-C2-C3	2.31	105.15	101.63
10	jD	1	FUB	C1-C2-C3	2.31	105.15	101.63
13	wD	4	AHR	C1-C2-C3	2.31	105.15	101.63
5	M	3	FUB	C1-C2-C3	2.31	105.15	101.63
10	a	5	AHR	C1-C2-C3	2.31	105.15	101.63
20	sE	4	AHR	C1-C2-C3	2.31	105.15	101.63
14	kB	2	FUB	C1-C2-C3	2.31	105.14	101.63
4	cC	1	FUB	C1-C2-C3	2.31	105.14	101.63
6	6C	2	FUB	C1-C2-C3	2.31	105.14	101.63
10	1A	3	FUB	O3-C3-C2	2.31	117.60	112.04
13	tD	2	FUB	O2-C2-C3	2.30	115.63	111.27
6	yD	1	FUB	C1-C2-C3	2.30	105.14	101.63
5	EC	4	AHR	C1-C2-C3	2.30	105.13	101.63
4	SD	2	FUB	C1-C2-C3	2.30	105.13	101.63
15	BB	4	AHR	C1-C2-C3	2.30	105.13	101.63
12	fD	5	AHR	C1-C2-C3	2.30	105.13	101.63
6	cB	1	FUB	C1-C2-C3	2.30	105.13	101.63
14	hC	1	FUB	C1-C2-C3	2.30	105.13	101.63
14	HB	4	FUB	C1-C2-C3	2.30	105.13	101.63
19	aE	3	GZL	C1-C2-C3	2.30	105.13	101.63
15	fB	4	AHR	C1-C2-C3	2.29	105.12	101.63
4	YC	2	FUB	C1-C2-C3	2.29	105.12	101.63
13	6B	2	FUB	O3-C3-C2	2.29	117.57	112.04
15	2D	4	AHR	C1-C2-C3	2.29	105.12	101.63
4	NB	1	FUB	C1-C2-C3	2.29	105.11	101.63
22	eE	5	AHR	C1-C2-C3	2.29	105.11	101.63
13	2B	3	GZL	C1-C2-C3	2.29	105.11	101.63
10	pB	4	AHR	C1-C2-C3	2.28	105.11	101.63
18	0E	5	AHR	C1-C2-C3	2.28	105.11	101.63
15	AB	1	FUB	C1-C2-C3	2.28	105.11	101.63
13	5A	4	AHR	C1-C2-C3	2.28	105.11	101.63
3	RB	3	FUB	C1-C2-C3	2.28	105.10	101.63
6	9	1	FUB	C1-C2-C3	2.28	105.10	101.63
9	hA	1	FUB	C1-C2-C3	2.28	105.10	101.63
18	JE	1	FUB	C1-C2-C3	2.28	105.10	101.63
21	vE	1	FUB	C1-C2-C3	2.28	105.10	101.63
13	tD	3	GZL	C5-C4-C3	-2.28	112.81	115.86
6	FC	3	GZL	O4-C4-C3	2.28	107.66	103.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	qB	2	FUB	C1-C2-C3	2.27	105.09	101.63
4	nC	1	FUB	C1-C2-C3	2.27	105.08	101.63
5	M	4	AHR	C1-C2-C3	2.27	105.08	101.63
13	wD	3	GZL	C1-C2-C3	2.27	105.08	101.63
17	GA	6	MAN	C1-C2-C3	-2.26	106.88	109.67
19	aE	4	AHR	C1-C2-C3	2.26	105.08	101.63
8	MC	1	FUB	C1-C2-C3	2.26	105.07	101.63
15	8B	4	AHR	C1-C2-C3	2.26	105.07	101.63
10	MB	4	AHR	C1-C2-C3	2.26	105.07	101.63
6	XB	2	FUB	O2-C2-C3	2.26	115.54	111.27
12	FB	5	AHR	C1-C2-C3	2.25	105.06	101.63
17	7C	4	MAN	C1-C2-C3	2.25	112.44	109.67
9	Y	1	FUB	O2-C2-C3	2.25	115.53	111.27
3	ED	1	FUB	C1-C2-C3	2.25	105.06	101.63
18	IE	1	FUB	O2-C2-C3	2.25	115.53	111.27
6	xD	2	FUB	O2-C2-C3	2.25	115.53	111.27
15	2D	3	GZL	O4-C4-C3	2.25	107.61	103.59
7	S	3	FUB	C1-C2-C3	2.25	105.06	101.63
6	3A	3	GZL	O2-C2-C3	-2.25	107.00	111.27
5	BD	1	FUB	C1-C2-C3	2.25	105.05	101.63
3	rC	1	FUB	C1-C2-C3	2.25	105.05	101.63
7	QA	3	FUB	C1-C2-C3	2.24	105.05	101.63
6	3A	1	FUB	C1-C2-C3	2.24	105.05	101.63
15	4C	5	AHR	C1-C2-C3	2.24	105.05	101.63
3	BC	1	FUB	C1-C2-C3	2.24	105.04	101.63
3	oD	3	FUB	C1-C2-C3	2.24	105.04	101.63
14	qA	3	GZL	O5-C5-C4	2.24	114.51	109.14
17	DB	1	NAG	C1-O5-C5	2.24	115.23	112.19
18	9D	3	GZL	O4-C4-C3	2.24	107.59	103.59
7	dA	1	FUB	C1-C2-C3	2.24	105.03	101.63
20	jE	3	GZL	C1-C2-C3	2.24	105.03	101.63
14	kB	3	GZL	O5-C5-C4	2.23	114.50	109.14
13	BA	2	FUB	O3-C3-C2	2.23	117.43	112.04
3	mD	3	FUB	C1-C2-C3	2.23	105.03	101.63
18	DE	4	AHR	C1-C2-C3	2.23	105.02	101.63
6	CB	1	FUB	C1-C2-C3	2.23	105.02	101.63
3	TC	2	FUB	C1-C2-C3	2.22	105.02	101.63
4	VD	2	FUB	C1-C2-C3	2.22	105.02	101.63
12	q	1	FUB	C1-C2-C3	2.22	105.02	101.63
6	4B	1	FUB	C1-C2-C3	2.22	105.02	101.63
18	9D	1	FUB	O2-C2-C1	2.22	117.59	110.97
15	2D	1	FUB	C1-C2-C3	2.22	105.01	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	pD	3	FUB	C1-C2-C3	2.22	105.01	101.63
14	kB	4	FUB	C1-C2-C3	2.22	105.01	101.63
7	KC	4	AHR	C1-C2-C3	2.22	105.01	101.63
3	QB	1	FUB	C1-C2-C3	2.22	105.00	101.63
13	7	3	GZL	O4-C4-C3	2.22	107.55	103.59
15	eB	4	AHR	O2-C2-C1	2.21	117.56	110.97
6	aB	2	FUB	C1-C2-C3	2.21	105.00	101.63
17	GA	3	BMA	C1-C2-C3	-2.21	106.95	109.67
15	DA	5	AHR	C1-C2-C3	2.21	105.00	101.63
20	uE	1	FUB	C1-C2-C3	2.21	105.00	101.63
4	VC	4	AHR	C1-C2-C3	2.21	105.00	101.63
3	0A	1	FUB	C1-C2-C3	2.21	105.00	101.63
13	9A	2	FUB	O2-C2-C3	2.21	115.45	111.27
3	pC	1	FUB	C1-C2-C3	2.21	104.99	101.63
17	DB	4	MAN	C1-O5-C5	2.20	115.18	112.19
11	gA	3	AHR	C1-C2-C3	2.20	104.99	101.63
10	vC	5	AHR	C1-C2-C3	2.20	104.98	101.63
11	XD	1	FUB	O2-C2-C3	2.20	115.43	111.27
10	3	3	FUB	O3-C3-C2	2.20	117.34	112.04
3	yA	1	FUB	C1-C2-C3	2.20	104.97	101.63
3	KD	1	FUB	C1-C2-C3	2.19	104.97	101.63
15	CA	4	AHR	C1-C2-C3	2.19	104.97	101.63
15	1D	4	AHR	C1-C2-C3	2.19	104.97	101.63
5	KA	5	AHR	C1-C2-C3	2.19	104.96	101.63
13	zC	3	GZL	O4-C4-C3	2.19	107.50	103.59
3	oB	3	FUB	C1-C2-C3	2.19	104.96	101.63
17	5D	3	BMA	C1-O5-C5	2.19	115.15	112.19
20	uE	3	GZL	O4-C4-C3	2.18	107.50	103.59
17	DB	2	NAG	C4-C3-C2	-2.18	107.82	111.02
6	N	3	GZL	C6-C5-C4	2.18	116.58	112.17
11	aC	2	AHR	C1-C2-C3	2.18	104.95	101.63
13	2A	2	FUB	O3-C3-C2	2.18	117.30	112.04
3	TA	1	FUB	C1-C2-C3	2.18	104.94	101.63
22	GE	3	GZL	O4-C4-C3	2.18	107.48	103.59
14	p	3	GZL	C1-O4-C4	-2.17	103.40	107.84
15	eB	1	FUB	C1-C2-C3	2.17	104.94	101.63
22	QE	1	FUB	C1-C2-C3	2.17	104.94	101.63
3	w	3	FUB	C1-C2-C3	2.17	104.93	101.63
14	hD	3	GZL	O4-C1-C2	-2.17	101.80	105.99
4	mB	4	AHR	C1-C2-C3	2.17	104.93	101.63
3	Q	1	FUB	C1-C2-C3	2.17	104.93	101.63
3	NA	3	FUB	C1-C2-C3	2.17	104.93	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	ID	1	FUB	C1-C2-C3	2.17	104.93	101.63
3	rB	1	FUB	C1-C2-C3	2.16	104.92	101.63
4	RC	4	AHR	C1-C2-C3	2.16	104.92	101.63
10	SC	5	AHR	C1-C2-C3	2.16	104.92	101.63
14	KB	4	FUB	C1-C2-C3	2.16	104.92	101.63
10	mC	4	AHR	C1-C2-C3	2.16	104.92	101.63
22	RE	5	AHR	O2-C2-C3	2.16	115.36	111.27
15	7B	4	AHR	O2-C2-C1	2.16	117.40	110.97
14	nB	3	GZL	C1-O4-C4	-2.16	103.44	107.84
3	EB	1	FUB	C1-C2-C3	2.16	104.92	101.63
3	uC	3	FUB	C1-C2-C3	2.16	104.92	101.63
5	EC	3	FUB	C1-C2-C3	2.16	104.92	101.63
17	DB	3	BMA	C1-C2-C3	-2.16	107.02	109.67
13	zC	2	FUB	C1-C2-C3	2.16	104.91	101.63
22	eE	4	AHR	C1-C2-C3	2.16	104.91	101.63
6	GD	3	GZL	O4-C4-C3	2.15	107.44	103.59
18	rE	3	GZL	O4-C4-C3	2.15	107.44	103.59
14	p	4	FUB	C1-C2-C3	2.15	104.91	101.63
7	XC	2	FUB	C1-C2-C3	-2.15	98.35	101.63
10	jD	5	AHR	C1-C2-C3	2.15	104.91	101.63
12	q	4	AHR	C1-C2-C3	2.15	104.90	101.63
3	wA	3	FUB	O4-C4-C3	2.15	106.61	104.70
6	uD	1	FUB	C1-C2-C3	2.15	104.90	101.63
22	dE	2	FUB	C1-C2-C3	2.15	104.90	101.63
18	fE	1	FUB	C1-C2-C3	2.15	104.90	101.63
6	CB	3	GZL	C1-C2-C3	2.15	104.90	101.63
13	3C	3	GZL	O4-C4-C3	2.14	107.42	103.59
6	5	1	FUB	C1-C2-C3	2.14	104.89	101.63
13	wD	3	GZL	O4-C4-C3	2.14	107.41	103.59
6	ZE	2	FUB	C1-C2-C3	2.13	104.88	101.63
12	cD	5	AHR	C1-C2-C3	2.13	104.88	101.63
8	U	2	FUB	C1-C2-C3	2.13	104.88	101.63
7	S	4	AHR	C1-C2-C3	2.13	104.88	101.63
13	9A	2	FUB	O3-C3-C2	2.13	117.19	112.04
3	cA	2	FUB	C1-C2-C3	2.13	104.88	101.63
6	cB	3	GZL	C1-C2-C3	2.13	104.88	101.63
3	9C	3	FUB	C1-C2-C3	2.13	104.87	101.63
15	5C	4	AHR	C1-C2-C3	2.13	104.87	101.63
19	1E	2	FUB	C1-C2-C3	2.13	104.87	101.63
21	FE	5	AHR	C1-C2-C3	2.13	104.87	101.63
10	3	5	AHR	C1-C2-C3	2.13	104.87	101.63
3	x	3	FUB	C1-C2-C3	2.13	104.87	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	tE	4	AHR	C1-C2-C3	2.13	104.87	101.63
3	1	3	FUB	C1-C2-C3	2.12	104.86	101.63
15	7B	4	AHR	O2-C2-C3	2.12	115.28	111.27
15	BB	1	FUB	C1-C2-C3	2.12	104.86	101.63
13	2B	4	AHR	C1-C2-C3	2.12	104.86	101.63
4	NB	4	AHR	C1-C2-C3	2.12	104.86	101.63
4	d	1	FUB	C1-C2-C3	2.12	104.85	101.63
4	RD	2	FUB	C1-C2-C3	2.12	104.85	101.63
4	nC	4	AHR	C1-C2-C3	2.12	104.85	101.63
13	wC	3	GZL	C1-C2-C3	-2.12	98.41	101.63
12	IB	2	FUB	C1-C2-C3	2.12	104.85	101.63
6	8	1	FUB	C1-C2-C3	2.11	104.85	101.63
12	q	5	AHR	C1-C2-C3	2.11	104.85	101.63
24	YE	6	AHR	C1-C2-C3	2.11	104.85	101.63
4	c	4	AHR	C1-C2-C3	2.11	104.84	101.63
13	yC	2	FUB	C1-C2-C3	2.11	104.84	101.63
14	s	3	GZL	O5-C5-C4	2.11	114.20	109.14
6	JC	1	FUB	C1-C2-C3	2.11	104.84	101.63
3	WC	3	FUB	C1-C2-C3	2.11	104.84	101.63
4	ZD	1	FUB	C1-C2-C3	2.11	104.84	101.63
3	CC	1	FUB	C1-C2-C3	2.11	104.84	101.63
7	HD	4	AHR	C1-C2-C3	2.11	104.84	101.63
18	zE	2	FUB	C1-C2-C3	2.11	104.84	101.63
4	DC	4	AHR	C1-C2-C3	2.10	104.83	101.63
7	h	4	AHR	C1-C2-C3	2.10	104.83	101.63
3	GC	1	FUB	C1-C2-C3	2.10	104.83	101.63
10	u	1	FUB	C1-C2-C3	2.10	104.83	101.63
12	iC	2	FUB	C1-C2-C3	2.10	104.83	101.63
6	xD	2	FUB	C1-C2-C3	2.10	104.83	101.63
13	wD	1	FUB	C1-C2-C3	2.10	104.83	101.63
3	jA	1	FUB	C1-C2-C3	2.10	104.83	101.63
3	CC	2	FUB	C1-C2-C3	2.10	104.83	101.63
7	f	3	FUB	C1-C2-C3	2.10	104.83	101.63
6	xC	2	FUB	O2-C2-C3	2.10	115.25	111.27
3	HA	3	FUB	C1-C2-C3	2.10	104.83	101.63
3	x	2	FUB	C1-C2-C3	2.10	104.82	101.63
18	pE	4	AHR	C1-C2-C3	2.10	104.82	101.63
7	f	1	FUB	C1-C2-C3	2.10	104.82	101.63
4	gD	2	FUB	C1-C2-C3	2.09	104.82	101.63
13	0D	3	GZL	O4-C1-C2	-2.09	101.94	105.99
5	M	2	FUB	O2-C2-C1	2.09	117.20	110.97
6	CB	3	GZL	C1-O4-C4	-2.09	103.57	107.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	eB	3	GZL	O4-C4-C3	2.09	107.33	103.59
13	zC	1	FUB	C1-C2-C3	2.09	104.81	101.63
14	nB	2	FUB	C1-C2-C3	2.09	104.81	101.63
3	PB	1	FUB	C1-C2-C3	2.08	104.81	101.63
3	uB	1	FUB	C1-C2-C3	2.08	104.81	101.63
10	vC	3	FUB	O3-C3-C2	2.08	117.07	112.04
24	YE	4	AHR	O2-C2-C1	2.08	117.18	110.97
18	pE	1	FUB	O2-C2-C1	2.08	117.18	110.97
20	gE	2	FUB	C1-C2-C3	2.08	104.80	101.63
3	y	1	FUB	O2-C2-C3	2.08	115.21	111.27
4	X	1	FUB	O2-C2-C3	2.08	115.21	111.27
14	HB	3	GZL	O5-C5-C4	2.08	114.13	109.14
20	HE	1	FUB	C1-C2-C3	2.08	104.80	101.63
23	XE	4	AHR	O4-C4-C3	2.08	106.55	104.70
4	JB	1	FUB	C1-C2-C3	2.08	104.80	101.63
6	3D	3	GZL	C1-C2-C3	2.08	104.80	101.63
21	kE	1	FUB	C1-C2-C3	2.08	104.79	101.63
12	oA	5	AHR	C1-C2-C3	2.08	104.79	101.63
6	N	2	FUB	O2-C2-C3	2.07	115.19	111.27
24	lE	4	AHR	O2-C2-C1	2.07	117.14	110.97
3	2	3	FUB	C1-C2-C3	2.07	104.79	101.63
18	pE	1	FUB	O3-C3-C4	2.07	117.03	111.05
3	RB	1	FUB	C1-C2-C3	2.07	104.78	101.63
3	SB	3	FUB	C1-C2-C3	2.07	104.78	101.63
15	CA	5	AHR	C1-C2-C3	2.07	104.78	101.63
10	1A	4	AHR	O2-C2-C1	2.06	117.11	110.97
4	d	3	FUB	C1-C2-C3	2.06	104.77	101.63
18	fE	4	AHR	C1-C2-C3	2.06	104.77	101.63
12	fC	5	AHR	C1-C2-C3	2.06	104.77	101.63
6	6D	1	FUB	O2-C2-C3	2.06	115.17	111.27
11	aC	3	AHR	C1-C2-C3	2.06	104.77	101.63
23	XE	6	AHR	C1-C2-C3	2.06	104.77	101.63
6	6C	1	FUB	C1-C2-C3	2.06	104.76	101.63
3	IA	2	FUB	C1-C2-C3	-2.06	98.50	101.63
3	iD	1	FUB	C1-C2-C3	2.06	104.76	101.63
6	mE	2	FUB	C1-C2-C3	2.06	104.76	101.63
14	kC	1	FUB	O2-C2-C3	2.06	115.16	111.27
12	iB	4	AHR	C1-C2-C3	2.05	104.76	101.63
4	PC	4	AHR	O2-C2-C3	2.05	115.15	111.27
18	pE	3	GZL	O4-C4-C3	2.05	107.26	103.59
5	EC	1	FUB	C1-C2-C3	2.05	104.75	101.63
3	HA	1	FUB	C1-C2-C3	2.05	104.75	101.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	pD	1	FUB	C1-C2-C3	2.05	104.75	101.63
10	a	2	FUB	C1-C2-C3	2.05	104.75	101.63
18	IE	3	GZL	C1-C2-C3	2.05	104.75	101.63
21	FE	4	AHR	C1-C2-C3	2.05	104.75	101.63
20	EE	2	FUB	O4-C4-C3	2.04	106.52	104.70
13	dB	4	AHR	C1-C2-C3	2.04	104.74	101.63
3	BC	2	FUB	C1-C2-C3	2.04	104.74	101.63
10	MB	1	FUB	C1-C2-C3	2.04	104.74	101.63
21	kE	1	FUB	O4-C4-C3	2.04	106.51	104.70
12	lB	4	AHR	C1-C2-C3	2.04	104.73	101.63
3	sC	3	FUB	C1-C2-C3	2.04	104.73	101.63
6	yD	3	GZL	O4-C4-C3	2.04	107.23	103.59
12	FB	1	FUB	O2-C2-C3	2.04	115.12	111.27
3	pC	2	FUB	C1-C2-C3	2.03	104.72	101.63
11	XD	2	AHR	C1-C2-C3	2.03	104.72	101.63
13	tD	3	GZL	C6-C5-C4	-2.03	108.06	112.17
4	OD	1	FUB	O2-C2-C3	2.03	115.11	111.27
4	Z	2	FUB	C1-C2-C3	-2.03	98.54	101.63
3	t	1	FUB	C1-C2-C3	2.03	104.72	101.63
18	JE	5	AHR	C1-C2-C3	2.02	104.71	101.63
6	3B	1	FUB	C1-C2-C3	2.02	104.71	101.63
18	pE	2	FUB	O2-C2-C1	2.02	116.98	110.97
22	RE	4	AHR	C1-C2-C3	2.02	104.70	101.63
14	eD	4	FUB	C1-C2-C3	2.01	104.70	101.63
15	4C	4	AHR	O2-C2-C1	2.01	116.97	110.97
13	0D	3	GZL	O4-C4-C3	2.01	107.19	103.59
14	hD	1	FUB	C1-C2-C3	2.01	104.69	101.63
15	DA	1	FUB	C1-C2-C3	2.01	104.69	101.63
9	Y	2	FUB	C1-C2-C3	2.01	104.69	101.63
6	8D	2	FUB	C1-C2-C3	2.01	104.69	101.63
8	SA	3	FUB	C1-C2-C3	2.01	104.69	101.63
6	bB	2	FUB	O2-C2-C1	2.01	116.95	110.97
14	hD	2	FUB	C1-C2-C3	2.00	104.68	101.63
6	8D	1	FUB	C1-C2-C3	2.00	104.68	101.63
6	EA	1	FUB	C1-C2-C3	2.00	104.68	101.63
13	zB	1	FUB	C1-C2-C3	2.00	104.68	101.63
8	U	1	FUB	C1-C2-C3	2.00	104.68	101.63

All (302) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	XA	2	FUB	C1

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Mol	Chain	Res	Type	Atom
4	L	1	FUB	C4
4	Z	2	FUB	C1
4	JA	1	FUB	C4
4	VA	4	AHR	C1
4	VA	4	AHR	C2
4	DC	1	FUB	C4
4	PC	4	AHR	C1
4	RC	2	FUB	C1
4	AD	1	FUB	C4
4	OD	2	FUB	C1
5	BD	5	AHR	C1
6	N	3	GZL	C1
6	N	3	GZL	C5
6	R	3	GZL	C1
6	5	3	GZL	C1
6	5	3	GZL	C4
6	5	3	GZL	C5
6	8	3	GZL	C1
6	9	3	GZL	C1
6	AA	2	FUB	C4
6	AA	3	GZL	C1
6	EA	3	GZL	C1
6	LA	3	GZL	C1
6	LA	3	GZL	C5
6	PA	3	GZL	C1
6	3A	3	GZL	C1
6	3A	3	GZL	C5
6	7A	3	GZL	C1
6	8A	2	FUB	C4
6	8A	3	GZL	C1
6	CB	3	GZL	C1
6	XB	3	GZL	C1
6	XB	3	GZL	C5
6	bB	3	GZL	C1
6	cB	2	FUB	C4
6	cB	3	GZL	C1
6	gB	3	GZL	C1
6	0B	3	GZL	C1
6	0B	3	GZL	C5
6	4B	3	GZL	C1
6	5B	2	FUB	C4
6	5B	3	GZL	C1

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Mol	Chain	Res	Type	Atom
6	9B	3	GZL	C1
6	FC	3	GZL	C1
6	JC	3	GZL	C1
6	xC	3	GZL	C1
6	xC	3	GZL	C5
6	1C	3	GZL	C1
6	2C	2	FUB	C4
6	2C	3	GZL	C1
6	6C	3	GZL	C1
6	CD	3	GZL	C1
6	CD	3	GZL	C3
6	CD	3	GZL	C5
6	GD	3	GZL	C1
6	uD	3	GZL	C1
6	uD	3	GZL	C5
6	yD	3	GZL	C1
6	zD	2	FUB	C4
6	zD	3	GZL	C1
6	3D	3	GZL	C1
6	6D	3	GZL	C1
6	7D	3	GZL	C1
6	8D	3	GZL	C1
6	ME	3	GZL	C1
6	OE	3	GZL	C1
6	ZE	3	GZL	C1
6	bE	3	GZL	C1
6	mE	3	GZL	C1
6	nE	3	GZL	C1
6	oE	3	GZL	C1
10	3	4	AHR	C1
10	1A	4	AHR	C1
10	VB	4	AHR	C1
10	yB	4	AHR	C1
10	vC	4	AHR	C1
10	sD	4	AHR	C1
12	n	3	GZL	C1
12	n	3	GZL	C5
12	q	3	GZL	C1
12	q	3	GZL	C5
12	q	5	AHR	C4
12	lA	3	GZL	C1
12	lA	3	GZL	C5

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Mol	Chain	Res	Type	Atom
12	oA	3	GZL	C1
12	oA	3	GZL	C5
12	FB	3	GZL	C1
12	FB	3	GZL	C5
12	IB	3	GZL	C1
12	IB	3	GZL	C5
12	iB	3	GZL	C1
12	iB	3	GZL	C5
12	lB	3	GZL	C1
12	lB	3	GZL	C5
12	fC	3	GZL	C1
12	fC	3	GZL	C5
12	iC	3	GZL	C1
12	iC	3	GZL	C5
12	cD	3	GZL	C1
12	cD	3	GZL	C5
12	fD	3	GZL	C1
12	fD	3	GZL	C5
13	o	3	GZL	C1
13	o	3	GZL	C5
13	4	3	GZL	C1
13	4	3	GZL	C5
13	6	3	GZL	C1
13	7	3	GZL	C1
13	BA	2	FUB	C2
13	mA	3	GZL	C1
13	mA	3	GZL	C5
13	2A	3	GZL	C1
13	2A	3	GZL	C4
13	2A	3	GZL	C5
13	4A	3	GZL	C1
13	5A	3	GZL	C1
13	9A	2	FUB	C2
13	GB	3	GZL	C1
13	GB	3	GZL	C5
13	WB	3	GZL	C1
13	WB	3	GZL	C4
13	WB	3	GZL	C5
13	YB	3	GZL	C1
13	ZB	3	GZL	C1
13	dB	2	FUB	C2
13	jB	3	GZL	C1

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Mol	Chain	Res	Type	Atom
13	jB	3	GZL	C5
13	zB	3	GZL	C1
13	zB	3	GZL	C4
13	zB	3	GZL	C5
13	1B	3	GZL	C1
13	2B	3	GZL	C1
13	6B	2	FUB	C2
13	gC	3	GZL	C1
13	gC	3	GZL	C5
13	wC	3	GZL	C1
13	wC	3	GZL	C4
13	wC	3	GZL	C5
13	yC	3	GZL	C1
13	zC	3	GZL	C1
13	3C	2	FUB	C2
13	dD	3	GZL	C1
13	dD	3	GZL	C5
13	tD	3	GZL	C1
13	tD	3	GZL	C4
13	tD	3	GZL	C5
13	vD	3	GZL	C1
13	wD	3	GZL	C1
13	0D	2	FUB	C2
14	p	3	GZL	C1
14	p	3	GZL	C5
14	s	3	GZL	C1
14	s	3	GZL	C5
14	nA	3	GZL	C1
14	nA	3	GZL	C5
14	qA	3	GZL	C1
14	qA	3	GZL	C5
14	HB	3	GZL	C1
14	HB	3	GZL	C5
14	KB	3	GZL	C1
14	KB	3	GZL	C5
14	kB	3	GZL	C1
14	kB	3	GZL	C5
14	nB	3	GZL	C1
14	nB	3	GZL	C5
14	hC	3	GZL	C1
14	hC	3	GZL	C5
14	kC	3	GZL	C1

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Mol	Chain	Res	Type	Atom
14	kC	3	GZL	C5
14	eD	3	GZL	C1
14	eD	3	GZL	C5
14	hD	3	GZL	C1
14	hD	3	GZL	C5
15	CA	3	GZL	C1
15	CA	5	AHR	C1
15	DA	3	GZL	C1
15	AB	3	GZL	C1
15	AB	5	AHR	C1
15	BB	3	GZL	C1
15	eB	3	GZL	C1
15	eB	5	AHR	C1
15	fB	3	GZL	C1
15	7B	3	GZL	C1
15	7B	5	AHR	C1
15	8B	3	GZL	C1
15	4C	3	GZL	C1
15	4C	5	AHR	C1
15	5C	3	GZL	C1
15	1D	3	GZL	C1
15	1D	5	AHR	C1
15	2D	3	GZL	C1
17	GA	4	MAN	C1
17	GA	6	MAN	C1
17	DB	4	MAN	C1
17	DB	6	MAN	C1
17	7C	4	MAN	C1
17	7C	6	MAN	C1
17	5D	4	MAN	C1
17	5D	6	MAN	C1
18	9D	3	GZL	C1
18	9D	4	AHR	C1
18	BE	3	GZL	C1
18	BE	4	AHR	C1
18	BE	5	AHR	C1
18	DE	3	GZL	C1
18	DE	5	AHR	C1
18	IE	3	GZL	C1
18	IE	4	AHR	C1
18	JE	3	GZL	C1
18	JE	5	AHR	C1

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Mol	Chain	Res	Type	Atom
18	KE	3	GZL	C1
18	KE	4	AHR	C1
18	KE	5	AHR	C1
18	PE	3	GZL	C1
18	PE	4	AHR	C1
18	PE	5	AHR	C1
18	SE	1	FUB	C4
18	SE	3	GZL	C1
18	SE	4	AHR	C1
18	SE	5	AHR	C1
18	cE	3	GZL	C1
18	cE	4	AHR	C1
18	cE	5	AHR	C1
18	fE	1	FUB	C4
18	fE	3	GZL	C1
18	fE	4	AHR	C1
18	fE	5	AHR	C1
18	pE	3	GZL	C1
18	pE	4	AHR	C1
18	rE	3	GZL	C1
18	rE	4	AHR	C1
18	rE	5	AHR	C1
18	tE	3	GZL	C1
18	tE	5	AHR	C1
18	yE	3	GZL	C1
18	yE	4	AHR	C1
18	zE	3	GZL	C1
18	zE	5	AHR	C1
18	0E	3	GZL	C1
18	0E	4	AHR	C1
18	0E	5	AHR	C1
19	AE	3	GZL	C1
19	LE	3	GZL	C1
19	LE	4	AHR	C1
19	NE	3	GZL	C1
19	NE	4	AHR	C1
19	aE	3	GZL	C1
19	aE	4	AHR	C1
19	qE	3	GZL	C1
19	1E	3	GZL	C1
19	1E	4	AHR	C1
20	CE	3	GZL	C1

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Mol	Chain	Res	Type	Atom
20	EE	3	GZL	C1
20	HE	3	GZL	C1
20	TE	3	GZL	C1
20	TE	4	AHR	C1
20	UE	3	GZL	C1
20	WE	3	GZL	C1
20	WE	4	AHR	C1
20	gE	3	GZL	C1
20	gE	4	AHR	C1
20	hE	3	GZL	C1
20	jE	3	GZL	C1
20	jE	4	AHR	C1
20	sE	3	GZL	C1
20	uE	3	GZL	C1
20	xE	3	GZL	C1
21	FE	3	GZL	C1
21	FE	4	AHR	C1
21	FE	5	AHR	C3
21	kE	3	GZL	C1
21	kE	4	AHR	C1
21	vE	3	GZL	C1
21	vE	4	AHR	C1
21	vE	5	AHR	C2
21	vE	5	AHR	C3
22	GE	3	GZL	C1
22	QE	3	GZL	C1
22	QE	4	AHR	C1
22	QE	6	AHR	C1
22	RE	3	GZL	C1
22	RE	4	AHR	C1
22	RE	4	AHR	C2
22	VE	3	GZL	C1
22	VE	4	AHR	C1
22	dE	3	GZL	C1
22	dE	4	AHR	C1
22	dE	6	AHR	C1
22	eE	3	GZL	C1
22	eE	4	AHR	C1
22	eE	4	AHR	C2
22	iE	3	GZL	C1
22	iE	4	AHR	C1
22	wE	3	GZL	C1

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Mol	Chain	Res	Type	Atom
23	XE	3	GZL	C1
23	XE	4	AHR	C1
23	XE	5	AHR	C1
24	YE	3	GZL	C1
24	YE	4	AHR	C1
24	IE	3	GZL	C1
24	IE	4	AHR	C1

All (605) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	N	3	GZL	C4-C5-C6-O6
6	N	3	GZL	O5-C5-C6-O6
6	5	3	GZL	O5-C5-C6-O6
6	AA	3	GZL	C3-C4-C5-C6
6	AA	3	GZL	O4-C4-C5-C6
6	AA	3	GZL	C3-C4-C5-O5
6	AA	3	GZL	O4-C4-C5-O5
6	EA	3	GZL	O5-C5-C6-O6
6	LA	3	GZL	C4-C5-C6-O6
6	LA	3	GZL	O5-C5-C6-O6
6	PA	3	GZL	O5-C5-C6-O6
6	3A	3	GZL	O4-C4-C5-C6
6	3A	3	GZL	C3-C4-C5-O5
6	3A	3	GZL	O4-C4-C5-O5
6	7A	3	GZL	C4-C5-C6-O6
6	7A	3	GZL	O5-C5-C6-O6
6	8A	3	GZL	O4-C4-C5-C6
6	XB	3	GZL	C3-C4-C5-C6
6	XB	3	GZL	O4-C4-C5-C6
6	XB	3	GZL	C3-C4-C5-O5
6	XB	3	GZL	O4-C4-C5-O5
6	bB	3	GZL	C3-C4-C5-C6
6	bB	3	GZL	O4-C4-C5-C6
6	bB	3	GZL	C3-C4-C5-O5
6	bB	3	GZL	O4-C4-C5-O5
6	gB	3	GZL	C4-C5-C6-O6
6	gB	3	GZL	C3-C4-C5-C6
6	gB	3	GZL	O4-C4-C5-C6
6	gB	3	GZL	C3-C4-C5-O5
6	gB	3	GZL	O4-C4-C5-O5
6	0B	3	GZL	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
6	0B	3	GZL	O4-C4-C5-C6
6	0B	3	GZL	C3-C4-C5-O5
6	0B	3	GZL	O4-C4-C5-O5
6	4B	3	GZL	O4-C4-C5-C6
6	5B	3	GZL	O4-C4-C5-O5
6	FC	3	GZL	O4-C4-C5-C6
6	xC	3	GZL	C3-C4-C5-C6
6	xC	3	GZL	O4-C4-C5-C6
6	xC	3	GZL	C3-C4-C5-O5
6	xC	3	GZL	O4-C4-C5-O5
6	0C	3	GZL	O5-C5-C6-O6
6	2C	3	GZL	O4-C4-C5-C6
6	2C	3	GZL	O4-C4-C5-O5
6	6C	3	GZL	O5-C5-C6-O6
6	GD	3	GZL	O4-C4-C5-C6
6	uD	3	GZL	C4-C5-C6-O6
6	uD	3	GZL	C3-C4-C5-C6
6	uD	3	GZL	O4-C4-C5-C6
6	uD	3	GZL	C3-C4-C5-O5
6	uD	3	GZL	O4-C4-C5-O5
6	xD	3	GZL	O5-C5-C6-O6
6	xD	3	GZL	C3-C4-C5-C6
6	xD	3	GZL	O4-C4-C5-C6
6	xD	3	GZL	C3-C4-C5-O5
6	xD	3	GZL	O4-C4-C5-O5
6	yD	3	GZL	O5-C5-C6-O6
6	6D	3	GZL	O4-C4-C5-O5
6	7D	3	GZL	C3-C4-C5-C6
6	7D	3	GZL	O4-C4-C5-C6
6	7D	3	GZL	C3-C4-C5-O5
6	7D	3	GZL	O4-C4-C5-O5
6	8D	3	GZL	O4-C4-C5-C6
6	ME	3	GZL	O4-C4-C5-C6
6	OE	3	GZL	C3-C4-C5-C6
6	OE	3	GZL	O4-C4-C5-C6
6	OE	3	GZL	C3-C4-C5-O5
6	ZE	3	GZL	C4-C5-C6-O6
6	ZE	3	GZL	O5-C5-C6-O6
6	bE	3	GZL	C4-C5-C6-O6
6	bE	3	GZL	O4-C4-C5-C6
6	mE	3	GZL	C3-C4-C5-C6
6	mE	3	GZL	O4-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
6	mE	3	GZL	C3-C4-C5-O5
6	mE	3	GZL	O4-C4-C5-O5
6	nE	3	GZL	C3-C4-C5-C6
6	nE	3	GZL	O4-C4-C5-C6
6	nE	3	GZL	C3-C4-C5-O5
6	nE	3	GZL	O4-C4-C5-O5
6	oE	3	GZL	C3-C4-C5-C6
6	oE	3	GZL	O4-C4-C5-C6
6	oE	3	GZL	C3-C4-C5-O5
12	n	3	GZL	O5-C5-C6-O6
12	lA	3	GZL	O5-C5-C6-O6
12	FB	3	GZL	C4-C5-C6-O6
12	IB	3	GZL	C3-C4-C5-O5
12	IB	3	GZL	O4-C4-C5-O5
12	iB	3	GZL	C4-C5-C6-O6
12	iB	3	GZL	O4-C4-C5-C6
12	iB	3	GZL	O4-C4-C5-O5
12	lB	3	GZL	O4-C4-C5-C6
12	lB	3	GZL	O4-C4-C5-O5
12	fC	3	GZL	O4-C4-C5-C6
12	fC	3	GZL	O4-C4-C5-O5
12	iC	3	GZL	O4-C4-C5-C6
12	iC	3	GZL	O4-C4-C5-O5
12	cD	3	GZL	C4-C5-C6-O6
12	fD	3	GZL	C4-C5-C6-O6
13	o	3	GZL	C4-C5-C6-O6
13	4	3	GZL	C3-C4-C5-O5
13	BA	3	GZL	O4-C4-C5-O5
13	mA	3	GZL	O4-C4-C5-O5
13	2A	3	GZL	O5-C5-C6-O6
13	5A	3	GZL	O5-C5-C6-O6
13	GB	3	GZL	O5-C5-C6-O6
13	YB	3	GZL	C3-C4-C5-C6
13	YB	3	GZL	O4-C4-C5-C6
13	YB	3	GZL	C3-C4-C5-O5
13	YB	3	GZL	O4-C4-C5-O5
13	ZB	3	GZL	O5-C5-C6-O6
13	dB	3	GZL	O4-C4-C5-C6
13	dB	3	GZL	C3-C4-C5-O5
13	dB	3	GZL	O4-C4-C5-O5
13	jB	3	GZL	O5-C5-C6-O6
13	6B	3	GZL	C3-C4-C5-O5

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Mol	Chain	Res	Type	Atoms
13	6B	3	GZL	O4-C4-C5-O5
13	gC	3	GZL	O5-C5-C6-O6
13	zC	3	GZL	C3-C4-C5-C6
13	zC	3	GZL	O4-C4-C5-C6
13	zC	3	GZL	C3-C4-C5-O5
13	3C	3	GZL	O4-C4-C5-O5
13	dD	3	GZL	O5-C5-C6-O6
13	vD	3	GZL	C3-C4-C5-C6
13	vD	3	GZL	O4-C4-C5-C6
13	vD	3	GZL	C3-C4-C5-O5
13	vD	3	GZL	O4-C4-C5-O5
13	wD	3	GZL	C3-C4-C5-C6
13	wD	3	GZL	O4-C4-C5-C6
13	wD	3	GZL	C3-C4-C5-O5
13	wD	3	GZL	O4-C4-C5-O5
13	0D	3	GZL	O4-C4-C5-O5
14	p	3	GZL	O4-C4-C5-C6
14	p	3	GZL	O4-C4-C5-O5
14	s	3	GZL	O4-C4-C5-C6
14	s	3	GZL	O4-C4-C5-O5
14	nA	3	GZL	C4-C5-C6-O6
14	nA	3	GZL	O5-C5-C6-O6
14	nA	3	GZL	O4-C4-C5-C6
14	nA	3	GZL	O4-C4-C5-O5
14	qA	3	GZL	O4-C4-C5-C6
14	qA	3	GZL	O4-C4-C5-O5
14	HB	3	GZL	O4-C4-C5-C6
14	HB	3	GZL	O4-C4-C5-O5
14	KB	3	GZL	O4-C4-C5-C6
14	KB	3	GZL	C3-C4-C5-O5
14	KB	3	GZL	O4-C4-C5-O5
14	kB	3	GZL	O4-C4-C5-C6
14	kB	3	GZL	O4-C4-C5-O5
14	nB	3	GZL	O4-C4-C5-C6
14	nB	3	GZL	O4-C4-C5-O5
14	hC	3	GZL	C3-C4-C5-C6
14	hC	3	GZL	C3-C4-C5-O5
14	kC	3	GZL	O5-C5-C6-O6
14	kC	3	GZL	O4-C4-C5-C6
14	kC	3	GZL	O4-C4-C5-O5
14	eD	3	GZL	O4-C4-C5-C6
14	eD	3	GZL	O4-C4-C5-O5

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Mol	Chain	Res	Type	Atoms
14	hD	3	GZL	O4-C4-C5-C6
14	hD	3	GZL	O4-C4-C5-O5
15	CA	3	GZL	C4-C5-C6-O6
15	CA	3	GZL	O5-C5-C6-O6
15	CA	3	GZL	O4-C4-C5-C6
15	AB	3	GZL	C4-C5-C6-O6
15	AB	3	GZL	O5-C5-C6-O6
15	AB	3	GZL	O4-C4-C5-C6
15	eB	3	GZL	C3-C4-C5-C6
15	eB	3	GZL	O4-C4-C5-C6
15	eB	3	GZL	C3-C4-C5-O5
15	7B	3	GZL	C4-C5-C6-O6
15	7B	3	GZL	C3-C4-C5-C6
15	7B	3	GZL	O4-C4-C5-C6
15	7B	3	GZL	C3-C4-C5-O5
15	1D	3	GZL	C3-C4-C5-C6
15	1D	3	GZL	O4-C4-C5-C6
15	1D	3	GZL	C3-C4-C5-O5
15	1D	3	GZL	O4-C4-C5-O5
16	AC	1	NAG	C3-C2-N2-C7
16	AC	1	NAG	C8-C7-N2-C2
16	AC	1	NAG	O7-C7-N2-C2
16	4D	1	NAG	C8-C7-N2-C2
16	4D	1	NAG	O7-C7-N2-C2
18	BE	3	GZL	C3-C4-C5-C6
18	BE	3	GZL	O4-C4-C5-C6
18	BE	3	GZL	C3-C4-C5-O5
18	BE	3	GZL	O4-C4-C5-O5
18	DE	3	GZL	O5-C5-C6-O6
18	IE	3	GZL	C3-C4-C5-C6
18	IE	3	GZL	O4-C4-C5-C6
18	IE	3	GZL	C3-C4-C5-O5
18	IE	3	GZL	O4-C4-C5-O5
18	JE	3	GZL	O5-C5-C6-O6
18	KE	3	GZL	O4-C4-C5-C6
18	KE	3	GZL	C3-C4-C5-O5
18	KE	3	GZL	O4-C4-C5-O5
18	PE	3	GZL	C4-C5-C6-O6
18	PE	3	GZL	O5-C5-C6-O6
18	SE	3	GZL	C4-C5-C6-O6
18	SE	3	GZL	O5-C5-C6-O6
18	cE	3	GZL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
18	cE	3	GZL	O5-C5-C6-O6
18	fE	3	GZL	C3-C4-C5-C6
18	fE	3	GZL	O4-C4-C5-C6
18	fE	3	GZL	C3-C4-C5-O5
18	fE	3	GZL	O4-C4-C5-O5
18	pE	3	GZL	C4-C5-C6-O6
18	tE	3	GZL	C4-C5-C6-O6
18	tE	3	GZL	O5-C5-C6-O6
18	yE	3	GZL	O5-C5-C6-O6
18	yE	3	GZL	C3-C4-C5-O5
18	zE	3	GZL	C3-C4-C5-C6
18	zE	3	GZL	O4-C4-C5-C6
18	zE	3	GZL	C3-C4-C5-O5
18	zE	3	GZL	O4-C4-C5-O5
18	0E	3	GZL	O4-C4-C5-C6
18	0E	3	GZL	C3-C4-C5-O5
18	0E	3	GZL	O4-C4-C5-O5
19	AE	3	GZL	C4-C5-C6-O6
19	AE	3	GZL	C3-C4-C5-C6
19	AE	3	GZL	O4-C4-C5-C6
19	AE	3	GZL	C3-C4-C5-O5
19	AE	3	GZL	O4-C4-C5-O5
19	qE	3	GZL	C3-C4-C5-C6
19	qE	3	GZL	O4-C4-C5-C6
19	qE	3	GZL	C3-C4-C5-O5
19	qE	3	GZL	O4-C4-C5-O5
19	1E	3	GZL	C3-C4-C5-C6
19	1E	3	GZL	O4-C4-C5-C6
19	1E	3	GZL	C3-C4-C5-O5
19	1E	3	GZL	O4-C4-C5-O5
20	CE	3	GZL	C3-C4-C5-C6
20	CE	3	GZL	O4-C4-C5-C6
20	CE	3	GZL	C3-C4-C5-O5
20	CE	3	GZL	O4-C4-C5-O5
20	HE	3	GZL	C3-C4-C5-C6
20	HE	3	GZL	O4-C4-C5-C6
20	HE	3	GZL	C3-C4-C5-O5
20	HE	3	GZL	O4-C4-C5-O5
20	TE	3	GZL	O5-C5-C6-O6
20	UE	3	GZL	C4-C5-C6-O6
20	UE	3	GZL	O4-C4-C5-C6
20	gE	3	GZL	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
20	hE	3	GZL	O4-C4-C5-C6
20	jE	3	GZL	O5-C5-C6-O6
20	sE	3	GZL	C3-C4-C5-C6
20	sE	3	GZL	O4-C4-C5-C6
20	sE	3	GZL	C3-C4-C5-O5
20	sE	3	GZL	O4-C4-C5-O5
20	uE	3	GZL	C3-C4-C5-C6
20	uE	3	GZL	O4-C4-C5-C6
20	uE	3	GZL	C3-C4-C5-O5
20	xE	3	GZL	C3-C4-C5-C6
20	xE	3	GZL	O4-C4-C5-C6
20	xE	3	GZL	C3-C4-C5-O5
20	xE	3	GZL	O4-C4-C5-O5
21	FE	3	GZL	O4-C4-C5-C6
21	vE	3	GZL	C4-C5-C6-O6
22	GE	3	GZL	C4-C5-C6-O6
22	GE	3	GZL	O5-C5-C6-O6
22	GE	3	GZL	O4-C4-C5-C6
22	GE	3	GZL	O4-C4-C5-O5
22	QE	3	GZL	C4-C5-C6-O6
22	RE	3	GZL	O5-C5-C6-O6
22	dE	3	GZL	O4-C4-C5-C6
22	eE	3	GZL	C4-C5-C6-O6
22	eE	3	GZL	O5-C5-C6-O6
22	iE	3	GZL	C4-C5-C6-O6
22	iE	3	GZL	O5-C5-C6-O6
22	wE	3	GZL	O5-C5-C6-O6
23	XE	3	GZL	C4-C5-C6-O6
23	XE	3	GZL	O5-C5-C6-O6
24	YE	3	GZL	C3-C4-C5-C6
24	YE	3	GZL	C3-C4-C5-O5
24	YE	3	GZL	O4-C4-C5-O5
24	lE	3	GZL	C3-C4-C5-O5
24	lE	3	GZL	O4-C4-C5-O5
17	DB	2	NAG	C8-C7-N2-C2
17	DB	2	NAG	O7-C7-N2-C2
20	HE	2	FUB	O4-C4-C5-O5
17	DB	4	MAN	O5-C5-C6-O6
17	5D	4	MAN	O5-C5-C6-O6
6	gB	3	GZL	O5-C5-C6-O6
6	GD	3	GZL	O5-C5-C6-O6
6	uD	3	GZL	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
6	bE	3	GZL	O5-C5-C6-O6
12	FB	3	GZL	O5-C5-C6-O6
12	iB	3	GZL	O5-C5-C6-O6
12	lB	3	GZL	O5-C5-C6-O6
12	cD	3	GZL	O5-C5-C6-O6
12	fD	3	GZL	O5-C5-C6-O6
13	o	3	GZL	O5-C5-C6-O6
13	zC	3	GZL	O5-C5-C6-O6
14	kB	3	GZL	O5-C5-C6-O6
15	DA	3	GZL	O5-C5-C6-O6
15	8B	3	GZL	O5-C5-C6-O6
18	fE	3	GZL	O5-C5-C6-O6
18	pE	3	GZL	O5-C5-C6-O6
18	zE	3	GZL	O5-C5-C6-O6
19	AE	3	GZL	O5-C5-C6-O6
19	LE	3	GZL	O5-C5-C6-O6
19	aE	3	GZL	O5-C5-C6-O6
20	HE	3	GZL	O5-C5-C6-O6
20	UE	3	GZL	O5-C5-C6-O6
20	xE	3	GZL	O5-C5-C6-O6
21	vE	3	GZL	O5-C5-C6-O6
22	QE	3	GZL	O5-C5-C6-O6
20	xE	2	FUB	O4-C4-C5-O5
6	5	3	GZL	C4-C5-C6-O6
6	EA	3	GZL	C4-C5-C6-O6
6	PA	3	GZL	C4-C5-C6-O6
6	6A	3	GZL	C4-C5-C6-O6
6	CB	3	GZL	C4-C5-C6-O6
6	XB	3	GZL	C4-C5-C6-O6
6	aB	3	GZL	C4-C5-C6-O6
6	cB	3	GZL	C4-C5-C6-O6
6	0C	3	GZL	C4-C5-C6-O6
6	6C	3	GZL	C4-C5-C6-O6
6	GD	3	GZL	C4-C5-C6-O6
6	xD	3	GZL	C4-C5-C6-O6
6	yD	3	GZL	C4-C5-C6-O6
6	7D	3	GZL	C4-C5-C6-O6
6	ME	3	GZL	C4-C5-C6-O6
6	nE	3	GZL	C4-C5-C6-O6
12	n	3	GZL	C4-C5-C6-O6
12	lA	3	GZL	C4-C5-C6-O6
12	iC	3	GZL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
13	mA	3	GZL	C4-C5-C6-O6
13	2A	3	GZL	C4-C5-C6-O6
13	5A	3	GZL	C4-C5-C6-O6
13	GB	3	GZL	C4-C5-C6-O6
13	ZB	3	GZL	C4-C5-C6-O6
13	jB	3	GZL	C4-C5-C6-O6
13	gC	3	GZL	C4-C5-C6-O6
13	yC	3	GZL	C4-C5-C6-O6
13	zC	3	GZL	C4-C5-C6-O6
13	dD	3	GZL	C4-C5-C6-O6
13	wD	3	GZL	C4-C5-C6-O6
13	0D	3	GZL	C4-C5-C6-O6
14	p	3	GZL	C4-C5-C6-O6
14	kC	3	GZL	C4-C5-C6-O6
14	eD	3	GZL	C4-C5-C6-O6
15	DA	3	GZL	C4-C5-C6-O6
15	8B	3	GZL	C4-C5-C6-O6
18	DE	3	GZL	C4-C5-C6-O6
18	JE	3	GZL	C4-C5-C6-O6
18	fE	3	GZL	C4-C5-C6-O6
18	yE	3	GZL	C4-C5-C6-O6
19	LE	3	GZL	C4-C5-C6-O6
19	NE	3	GZL	C4-C5-C6-O6
19	aE	3	GZL	C4-C5-C6-O6
20	HE	3	GZL	C4-C5-C6-O6
20	TE	3	GZL	C4-C5-C6-O6
20	gE	3	GZL	C4-C5-C6-O6
20	jE	3	GZL	C4-C5-C6-O6
20	xE	3	GZL	C4-C5-C6-O6
22	RE	3	GZL	C4-C5-C6-O6
22	wE	3	GZL	C4-C5-C6-O6
16	FA	1	NAG	C8-C7-N2-C2
17	DB	4	MAN	C4-C5-C6-O6
17	5D	4	MAN	C4-C5-C6-O6
17	DB	1	NAG	O5-C5-C6-O6
17	7C	4	MAN	O5-C5-C6-O6
20	HE	2	FUB	C3-C4-C5-O5
20	hE	2	FUB	C3-C4-C5-O5
17	7C	4	MAN	C4-C5-C6-O6
16	AC	2	NAG	C8-C7-N2-C2
17	5D	2	NAG	C8-C7-N2-C2
16	FA	1	NAG	C1-C2-N2-C7

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Mol	Chain	Res	Type	Atoms
6	0B	3	GZL	O5-C5-C6-O6
19	NE	3	GZL	O5-C5-C6-O6
17	7C	5	MAN	O5-C5-C6-O6
6	8A	3	GZL	C4-C5-C6-O6
12	lB	3	GZL	C4-C5-C6-O6
18	zE	3	GZL	C4-C5-C6-O6
16	FA	1	NAG	O7-C7-N2-C2
16	AC	2	NAG	O7-C7-N2-C2
17	GA	2	NAG	C8-C7-N2-C2
17	5D	2	NAG	O7-C7-N2-C2
20	hE	2	FUB	O4-C4-C5-O5
17	5D	6	MAN	O5-C5-C6-O6
17	DB	1	NAG	C4-C5-C6-O6
6	6A	3	GZL	O5-C5-C6-O6
6	CB	3	GZL	O5-C5-C6-O6
6	ME	3	GZL	O5-C5-C6-O6
6	nE	3	GZL	O5-C5-C6-O6
13	mA	3	GZL	O5-C5-C6-O6
13	yC	3	GZL	O5-C5-C6-O6
13	wD	3	GZL	O5-C5-C6-O6
15	7B	3	GZL	O5-C5-C6-O6
20	xE	2	FUB	C3-C4-C5-O5
6	5B	3	GZL	C4-C5-C6-O6
14	kB	3	GZL	C4-C5-C6-O6
20	sE	3	GZL	C4-C5-C6-O6
17	7C	5	MAN	C4-C5-C6-O6
17	7C	3	BMA	C4-C5-C6-O6
6	8A	3	GZL	O5-C5-C6-O6
6	cB	3	GZL	O5-C5-C6-O6
6	9B	3	GZL	O5-C5-C6-O6
12	iC	3	GZL	O5-C5-C6-O6
13	0D	3	GZL	O5-C5-C6-O6
14	HB	3	GZL	O5-C5-C6-O6
17	7C	3	BMA	O5-C5-C6-O6
17	GA	2	NAG	O7-C7-N2-C2
6	R	3	GZL	C4-C5-C6-O6
6	AA	3	GZL	C4-C5-C6-O6
6	xC	3	GZL	C4-C5-C6-O6
12	lB	3	GZL	C4-C5-C6-O6
13	lB	3	GZL	C4-C5-C6-O6
18	rE	3	GZL	C4-C5-C6-O6
17	DB	6	MAN	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
6	3A	3	GZL	O5-C5-C6-O6
12	oA	3	GZL	O5-C5-C6-O6
6	8A	3	GZL	O4-C4-C5-O5
6	4B	3	GZL	O4-C4-C5-O5
6	FC	3	GZL	O4-C4-C5-O5
6	GD	3	GZL	O4-C4-C5-O5
6	8D	3	GZL	O4-C4-C5-O5
6	OE	3	GZL	O4-C4-C5-O5
6	bE	3	GZL	O4-C4-C5-O5
6	oE	3	GZL	O4-C4-C5-O5
13	9A	3	GZL	O4-C4-C5-O5
13	WB	3	GZL	O4-C4-C5-O5
13	zB	3	GZL	O4-C4-C5-O5
13	wC	3	GZL	O4-C4-C5-O5
13	zC	3	GZL	O4-C4-C5-O5
14	hC	3	GZL	O4-C4-C5-O5
15	CA	3	GZL	O4-C4-C5-O5
15	AB	3	GZL	O4-C4-C5-O5
15	eB	3	GZL	O4-C4-C5-O5
15	7B	3	GZL	O4-C4-C5-O5
15	4C	3	GZL	O4-C4-C5-O5
18	SE	3	GZL	O4-C4-C5-O5
18	pE	3	GZL	O4-C4-C5-O5
18	rE	3	GZL	O4-C4-C5-O5
18	yE	3	GZL	O4-C4-C5-O5
20	UE	3	GZL	O4-C4-C5-O5
20	WE	3	GZL	O4-C4-C5-O5
20	hE	3	GZL	O4-C4-C5-O5
20	jE	3	GZL	O4-C4-C5-O5
20	uE	3	GZL	O4-C4-C5-O5
21	FE	3	GZL	O4-C4-C5-O5
21	vE	3	GZL	O4-C4-C5-O5
22	dE	3	GZL	O4-C4-C5-O5
6	5B	3	GZL	C3-C4-C5-O5
6	FC	3	GZL	C3-C4-C5-O5
6	2C	3	GZL	C3-C4-C5-O5
6	6D	3	GZL	C3-C4-C5-O5
12	iB	3	GZL	C3-C4-C5-O5
12	lB	3	GZL	C3-C4-C5-O5
12	fC	3	GZL	C3-C4-C5-O5
12	iC	3	GZL	C3-C4-C5-O5
13	BA	3	GZL	C3-C4-C5-O5

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Mol	Chain	Res	Type	Atoms
13	3C	3	GZL	C3-C4-C5-O5
13	0D	3	GZL	C3-C4-C5-O5
14	p	3	GZL	C3-C4-C5-O5
14	s	3	GZL	C3-C4-C5-O5
14	nA	3	GZL	C3-C4-C5-O5
14	qA	3	GZL	C3-C4-C5-O5
14	HB	3	GZL	C3-C4-C5-O5
14	kB	3	GZL	C3-C4-C5-O5
14	nB	3	GZL	C3-C4-C5-O5
14	kC	3	GZL	C3-C4-C5-O5
14	eD	3	GZL	C3-C4-C5-O5
14	hD	3	GZL	C3-C4-C5-O5
20	TE	3	GZL	C3-C4-C5-O5
22	GE	3	GZL	C3-C4-C5-O5
12	fC	3	GZL	O5-C5-C6-O6
18	IE	3	GZL	O5-C5-C6-O6
18	rE	3	GZL	O5-C5-C6-O6
20	TE	2	FUB	C3-C4-C5-O5
17	DB	5	MAN	O5-C5-C6-O6
20	TE	2	FUB	O4-C4-C5-O5
15	2D	3	GZL	C4-C5-C6-O6
20	CE	3	GZL	C4-C5-C6-O6
6	aB	3	GZL	O5-C5-C6-O6
6	5B	3	GZL	O5-C5-C6-O6
6	7D	3	GZL	O5-C5-C6-O6
12	IB	3	GZL	O5-C5-C6-O6
14	p	3	GZL	O5-C5-C6-O6
14	eD	3	GZL	O5-C5-C6-O6
15	2D	3	GZL	O5-C5-C6-O6
20	sE	3	GZL	O5-C5-C6-O6
17	GA	4	MAN	O5-C5-C6-O6
17	7C	6	MAN	O5-C5-C6-O6
17	GA	6	MAN	O5-C5-C6-O6
17	7C	1	NAG	O5-C5-C6-O6
6	2C	3	GZL	C3-C4-C5-C6
6	6D	3	GZL	C3-C4-C5-C6
12	iB	3	GZL	C3-C4-C5-C6
13	4	3	GZL	C3-C4-C5-C6
13	BA	3	GZL	C3-C4-C5-C6
13	dB	3	GZL	C3-C4-C5-C6
13	jB	3	GZL	C3-C4-C5-C6
13	6B	3	GZL	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
14	p	3	GZL	C3-C4-C5-C6
14	s	3	GZL	C3-C4-C5-C6
14	nA	3	GZL	C3-C4-C5-C6
14	HB	3	GZL	C3-C4-C5-C6
14	KB	3	GZL	C3-C4-C5-C6
14	nB	3	GZL	C3-C4-C5-C6
14	kC	3	GZL	C3-C4-C5-C6
14	eD	3	GZL	C3-C4-C5-C6
14	hD	3	GZL	C3-C4-C5-C6
18	KE	3	GZL	C3-C4-C5-C6
18	0E	3	GZL	C3-C4-C5-C6
22	GE	3	GZL	C3-C4-C5-C6
22	dE	3	GZL	C3-C4-C5-C6
24	lE	3	GZL	C3-C4-C5-C6
6	6D	3	GZL	O4-C4-C5-C6
13	4	3	GZL	O4-C4-C5-C6
13	BA	3	GZL	O4-C4-C5-C6
13	6B	3	GZL	O4-C4-C5-C6
18	yE	3	GZL	O4-C4-C5-C6
20	jE	3	GZL	O4-C4-C5-C6
24	YE	3	GZL	O4-C4-C5-C6
24	lE	3	GZL	O4-C4-C5-C6
17	GA	1	NAG	O5-C5-C6-O6
12	fC	3	GZL	C4-C5-C6-O6
17	5D	1	NAG	O5-C5-C6-O6
13	6	3	GZL	O5-C5-C6-O6
17	DB	3	BMA	C4-C5-C6-O6
15	eB	3	GZL	C4-C5-C6-O6
13	1B	3	GZL	O5-C5-C6-O6
16	FA	1	NAG	C3-C2-N2-C7
6	9B	3	GZL	C4-C5-C6-O6
12	oA	3	GZL	C4-C5-C6-O6
13	4	3	GZL	C4-C5-C6-O6
14	HB	3	GZL	C4-C5-C6-O6
6	R	3	GZL	O5-C5-C6-O6
6	ME	3	GZL	O4-C4-C5-O5
22	VE	3	GZL	O4-C4-C5-O5
6	zD	3	GZL	C4-C5-C6-O6
14	nB	3	GZL	C4-C5-C6-O6
18	9D	3	GZL	C4-C5-C6-O6
6	4B	3	GZL	C3-C4-C5-O5
13	9A	3	GZL	C3-C4-C5-O5

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Mol	Chain	Res	Type	Atoms
22	VE	3	GZL	C3-C4-C5-O5
22	dE	3	GZL	C3-C4-C5-O5
13	zB	3	GZL	O5-C5-C6-O6
16	4D	1	NAG	C1-C2-N2-C7
13	9A	3	GZL	C4-C5-C6-O6
6	AA	3	GZL	O5-C5-C6-O6
16	FA	2	NAG	C8-C7-N2-C2
6	3B	3	GZL	O5-C5-C6-O6
15	eB	3	GZL	O5-C5-C6-O6
18	0E	3	GZL	O5-C5-C6-O6
20	CE	3	GZL	O5-C5-C6-O6
17	GA	5	MAN	O5-C5-C6-O6
6	4B	3	GZL	C3-C4-C5-C6
6	FC	3	GZL	C3-C4-C5-C6
12	lB	3	GZL	C3-C4-C5-C6
12	fC	3	GZL	C3-C4-C5-C6
12	iC	3	GZL	C3-C4-C5-C6
14	qA	3	GZL	C3-C4-C5-C6
14	kB	3	GZL	C3-C4-C5-C6
15	4C	3	GZL	O4-C4-C5-C6
6	CD	3	GZL	C4-C5-C6-O6
13	6	3	GZL	C4-C5-C6-O6
17	5D	3	BMA	C4-C5-C6-O6
12	FB	3	GZL	O4-C4-C5-O5
13	4	3	GZL	O4-C4-C5-O5
20	TE	3	GZL	O4-C4-C5-O5
6	cB	3	GZL	C3-C4-C5-O5
13	6	3	GZL	C3-C4-C5-O5
16	FA	2	NAG	O7-C7-N2-C2
17	DB	3	BMA	O5-C5-C6-O6
17	5D	6	MAN	C4-C5-C6-O6
20	CE	2	FUB	O4-C4-C5-O5
17	GA	3	BMA	C4-C5-C6-O6
18	9D	3	GZL	O5-C5-C6-O6
11	gA	1	FUB	O4-C4-C5-O5
6	3B	3	GZL	C4-C5-C6-O6
18	0E	3	GZL	C4-C5-C6-O6
6	9	3	GZL	O5-C5-C6-O6
22	RE	2	FUB	O4-C4-C5-O5
6	cB	3	GZL	O4-C4-C5-O5
12	lB	3	GZL	C3-C4-C5-C6
13	dD	3	GZL	C3-C4-C5-C6

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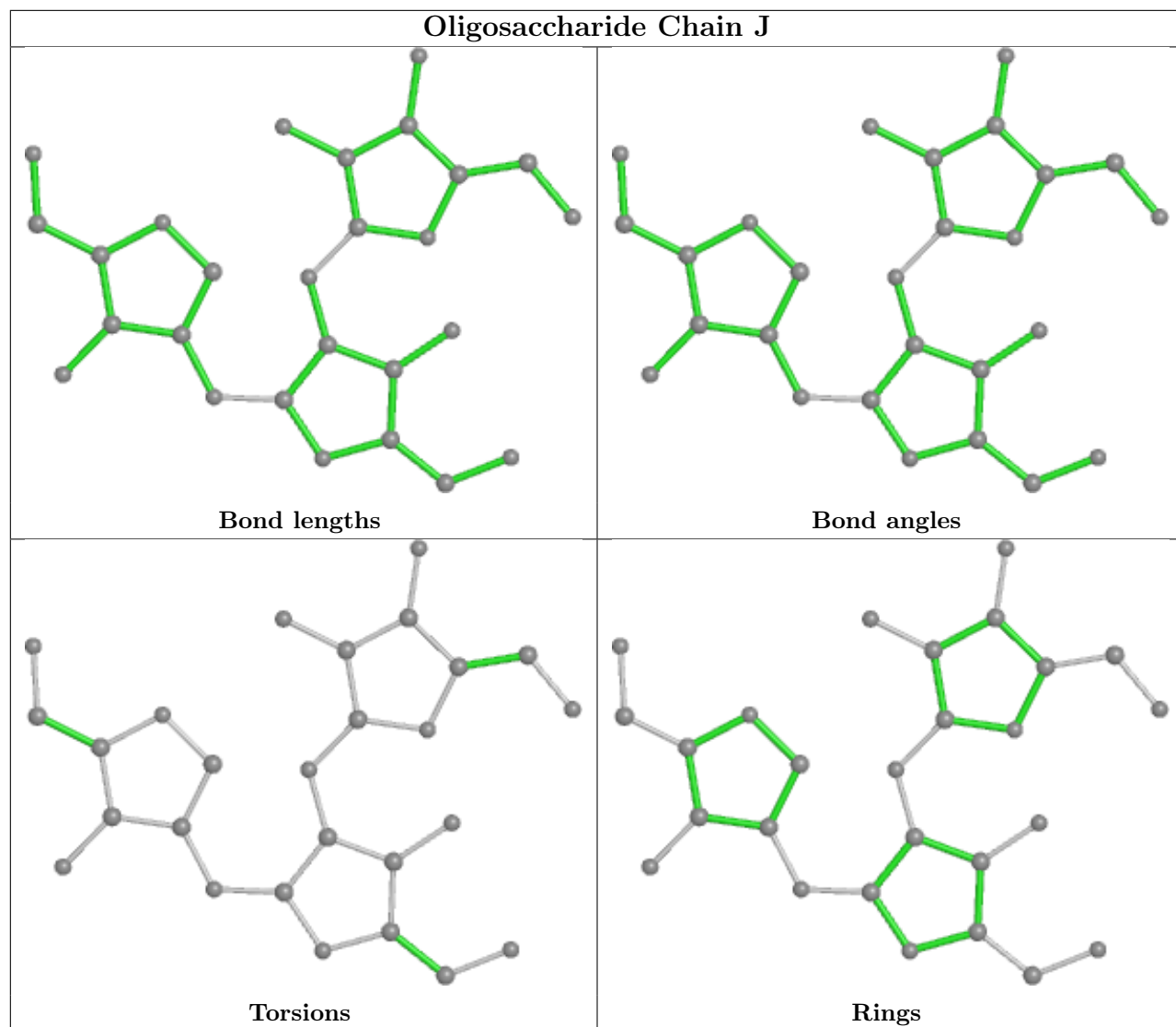
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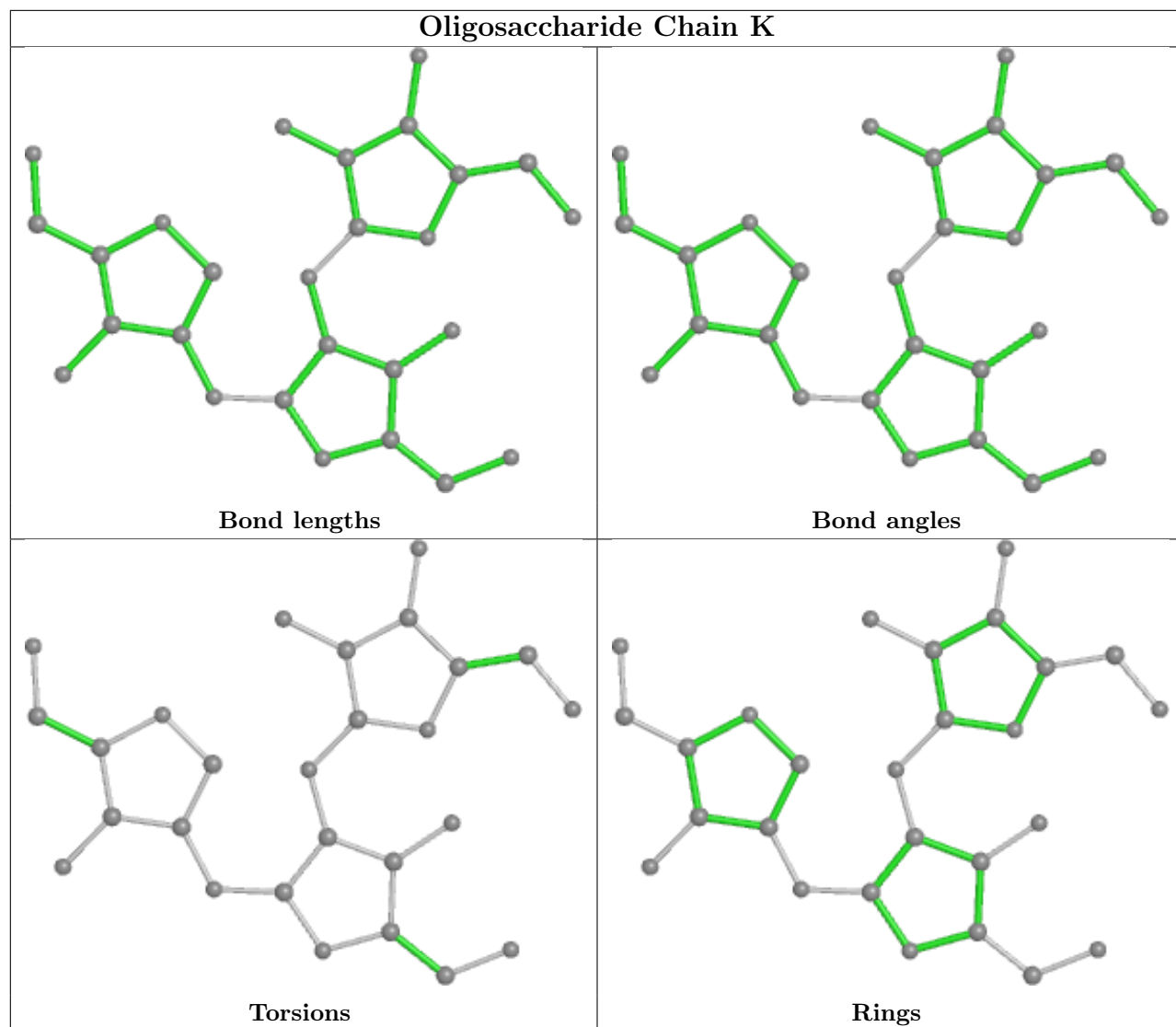
Mol	Chain	Res	Type	Atoms
13	0D	3	GZL	C3-C4-C5-C6
18	yE	3	GZL	C3-C4-C5-C6
12	IB	3	GZL	O4-C4-C5-C6
13	0D	3	GZL	O4-C4-C5-C6
6	zD	3	GZL	O5-C5-C6-O6
23	XE	2	FUB	O4-C4-C5-O5
18	IE	3	GZL	C4-C5-C6-O6
18	9D	3	GZL	O4-C4-C5-O5
13	1B	3	GZL	C3-C4-C5-O5
22	RE	3	GZL	C3-C4-C5-O5
17	GA	3	BMA	O5-C5-C6-O6
15	BB	3	GZL	O5-C5-C6-O6
16	4D	1	NAG	C3-C2-N2-C7
6	5B	3	GZL	C3-C4-C5-C6
13	GB	3	GZL	C3-C4-C5-C6
13	3C	3	GZL	C3-C4-C5-C6
20	hE	3	GZL	C3-C4-C5-C6
24	lE	3	GZL	C4-C5-C6-O6
6	5B	3	GZL	O4-C4-C5-C6
13	mA	3	GZL	O4-C4-C5-C6
13	3C	3	GZL	O4-C4-C5-C6
18	pE	3	GZL	O4-C4-C5-C6
20	WE	3	GZL	O4-C4-C5-C6
21	vE	3	GZL	O4-C4-C5-C6
17	DB	5	MAN	C4-C5-C6-O6
13	9A	3	GZL	O5-C5-C6-O6
14	nB	3	GZL	O5-C5-C6-O6
17	5D	3	BMA	O5-C5-C6-O6

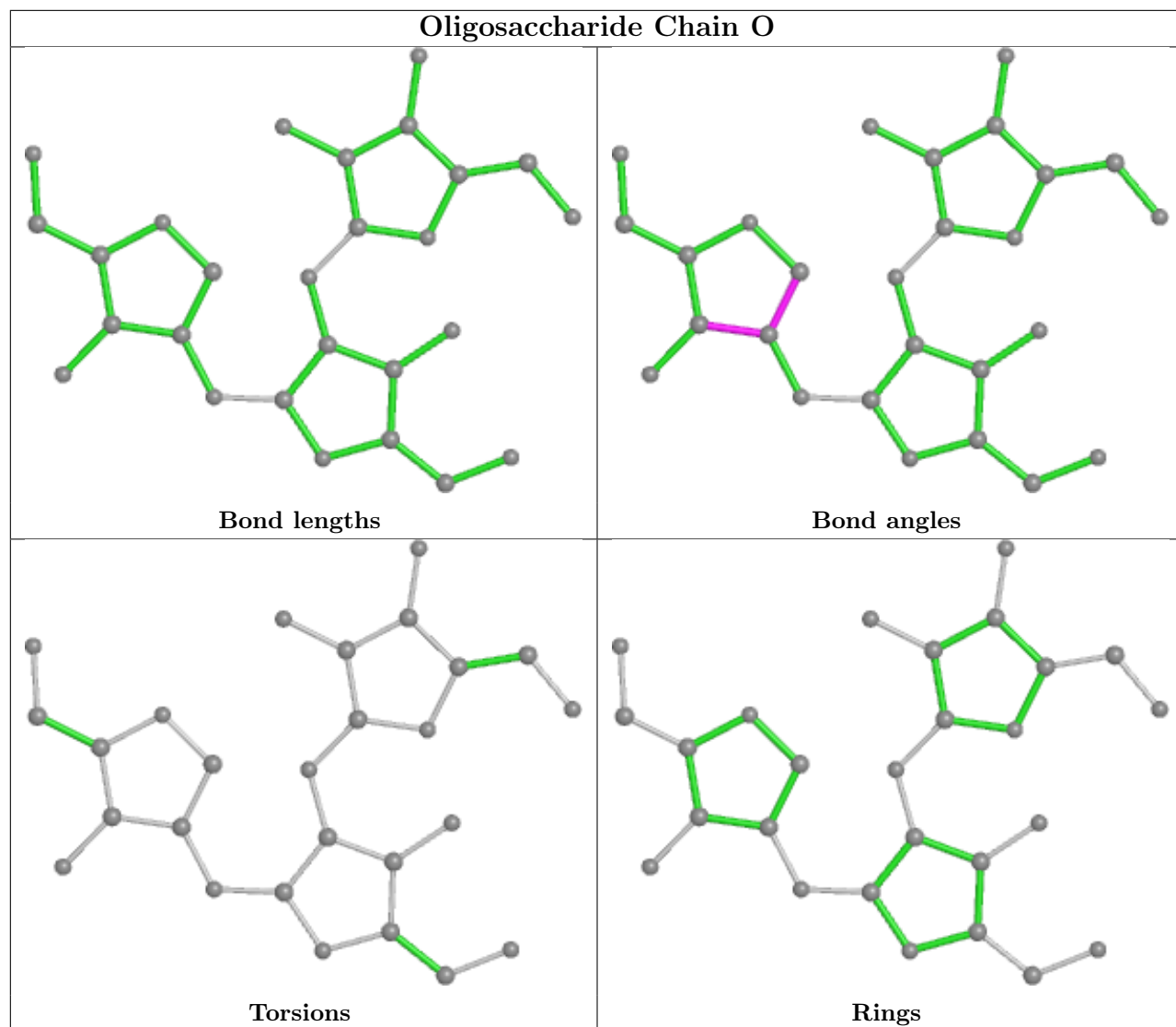
There are no ring outliers.

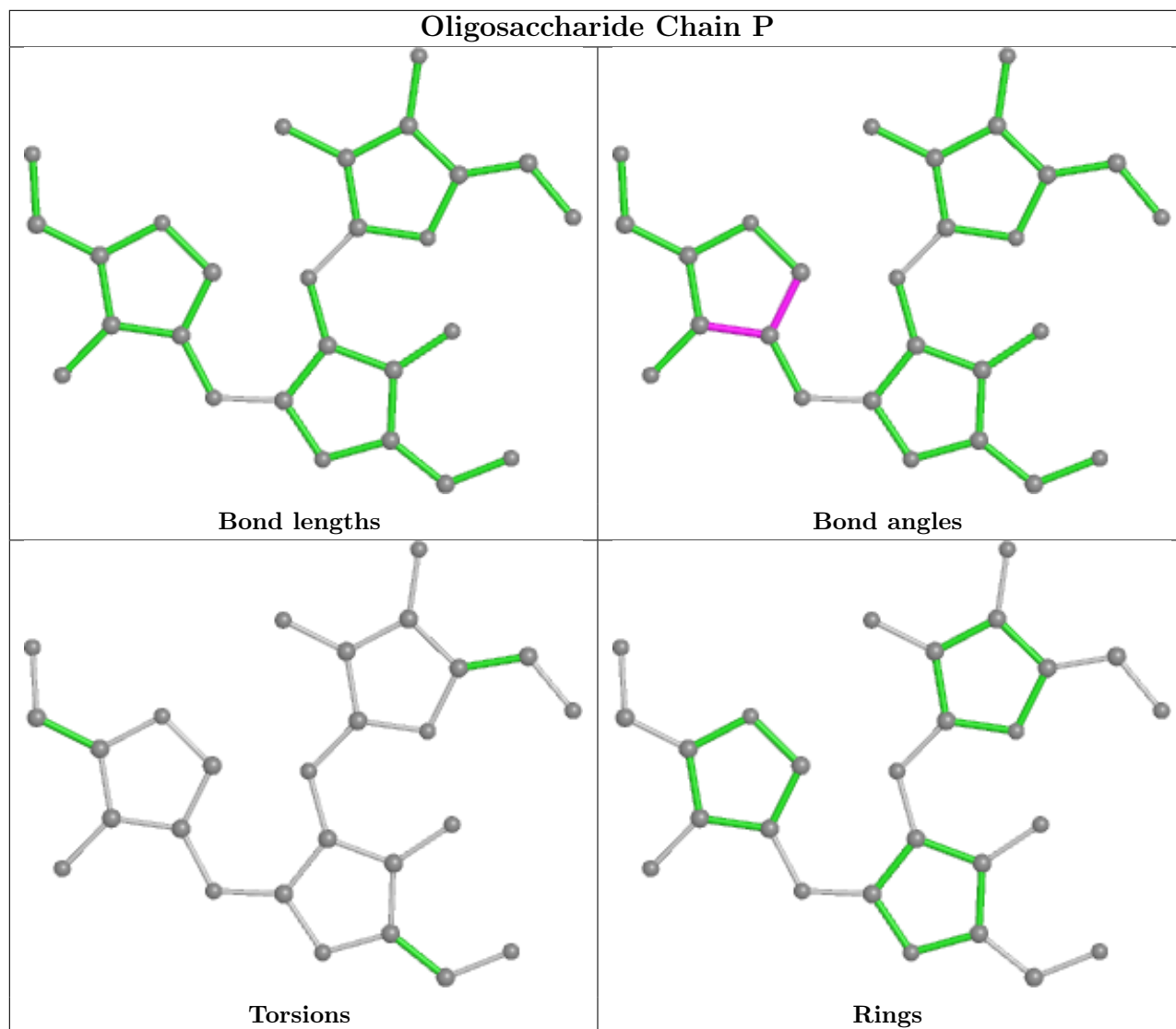
No monomer is involved in short contacts.

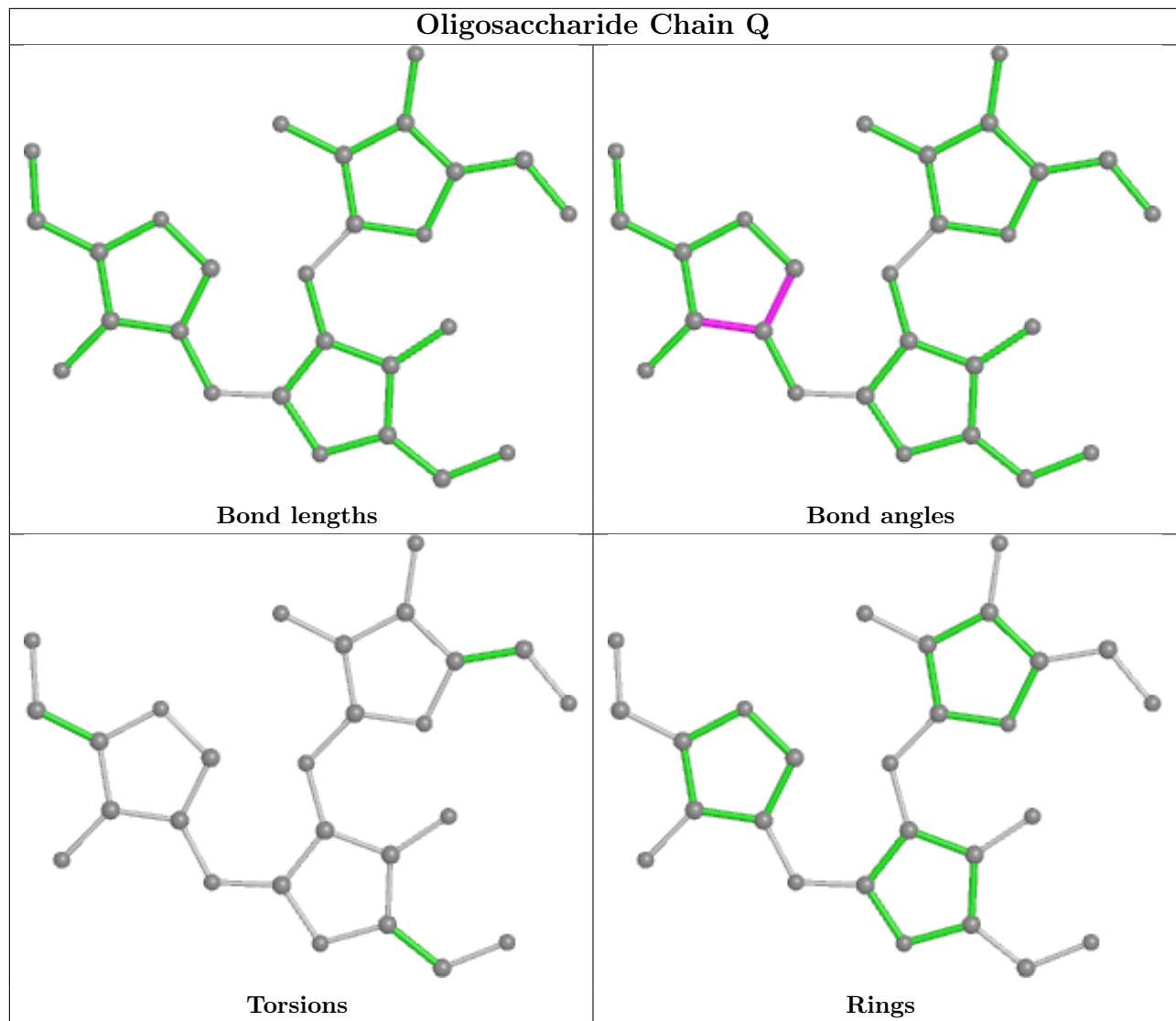
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

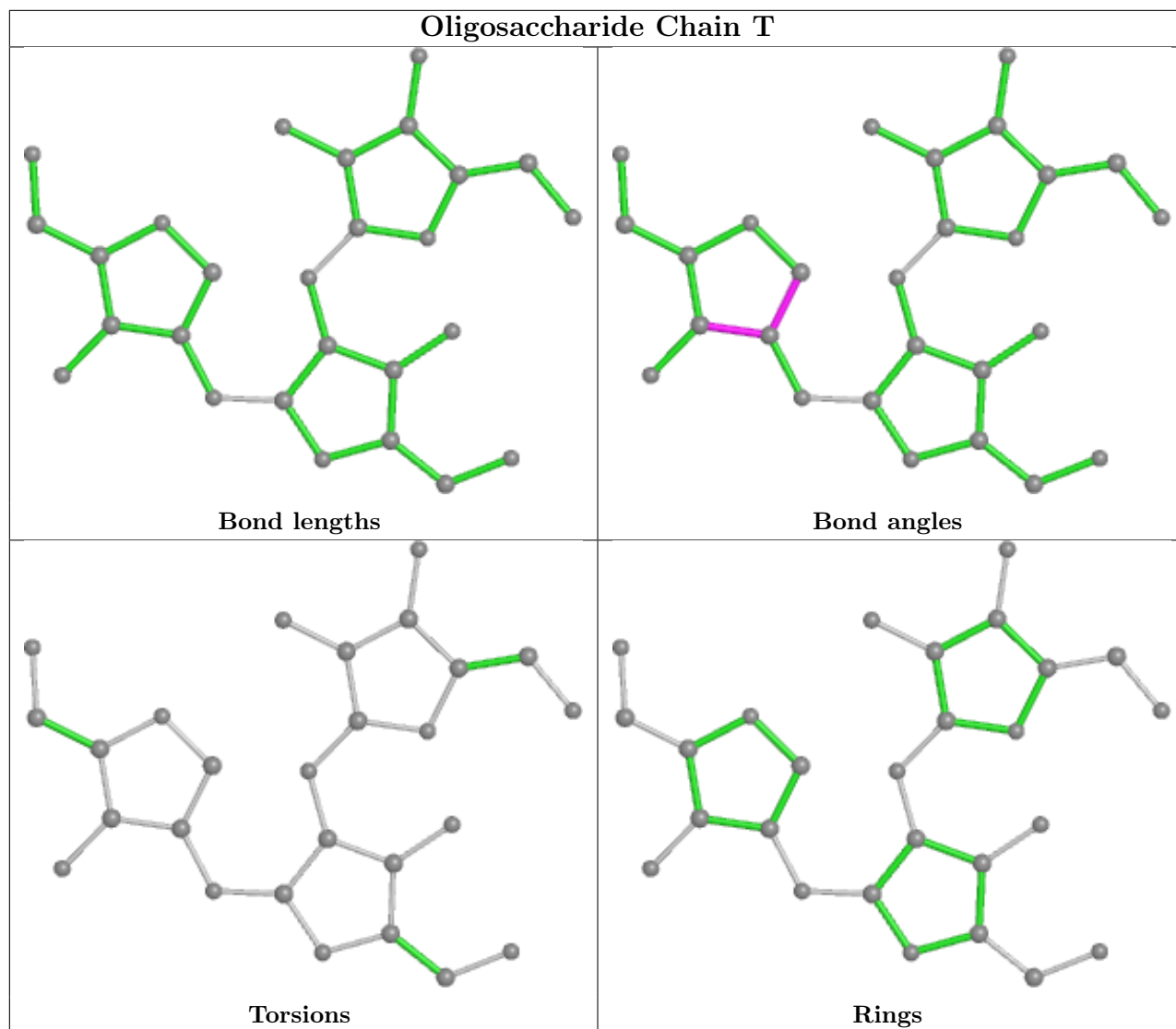


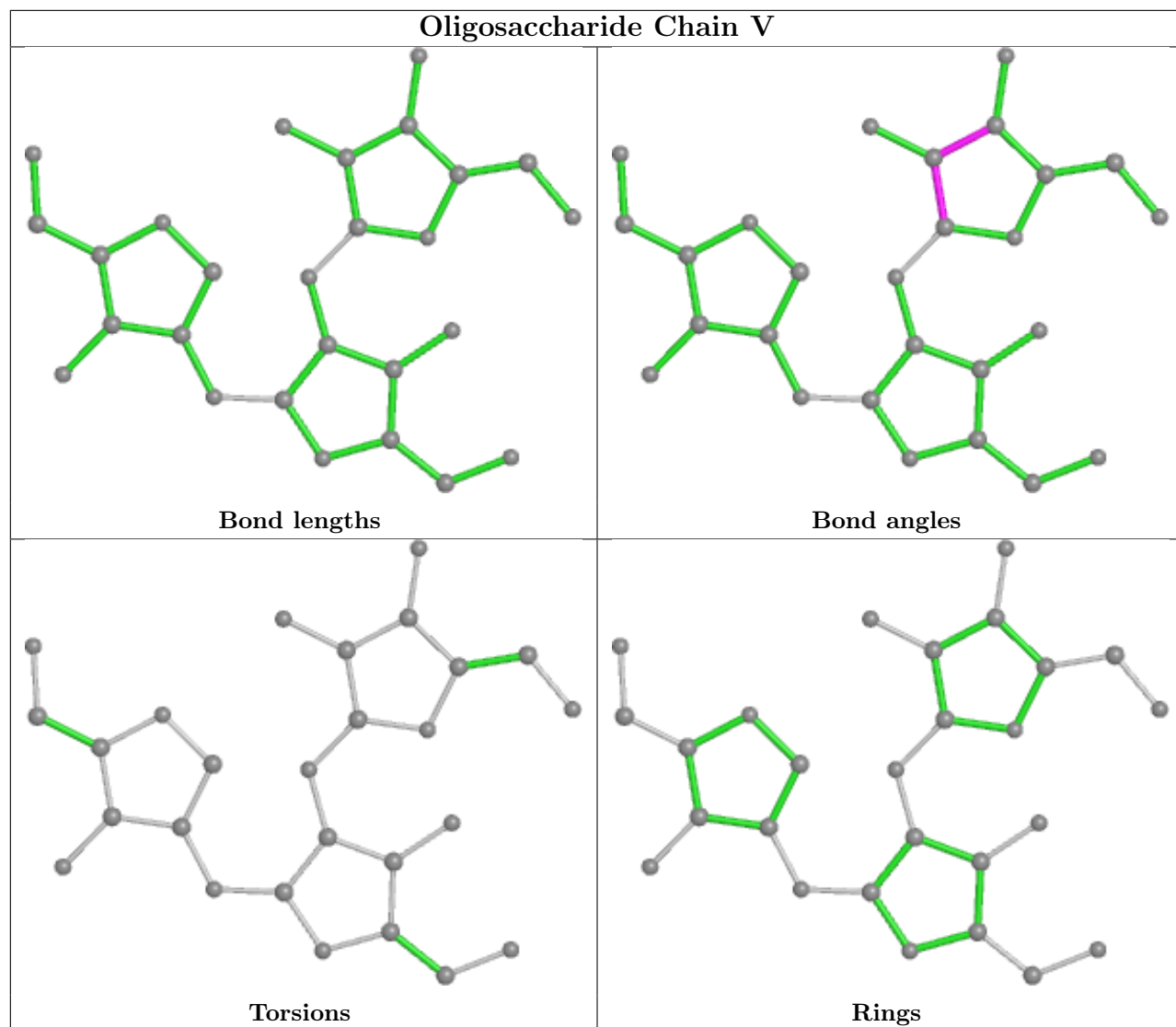


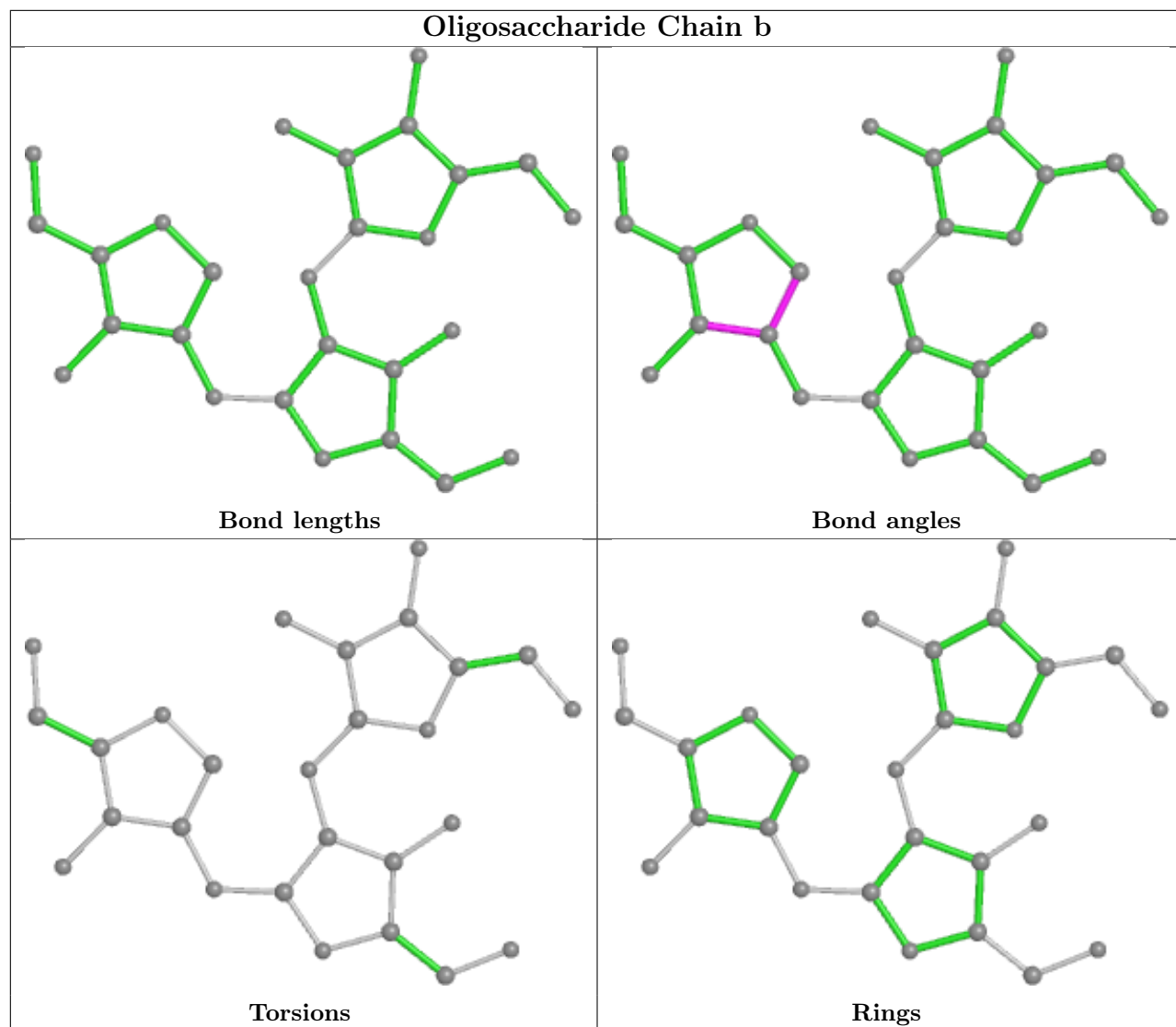


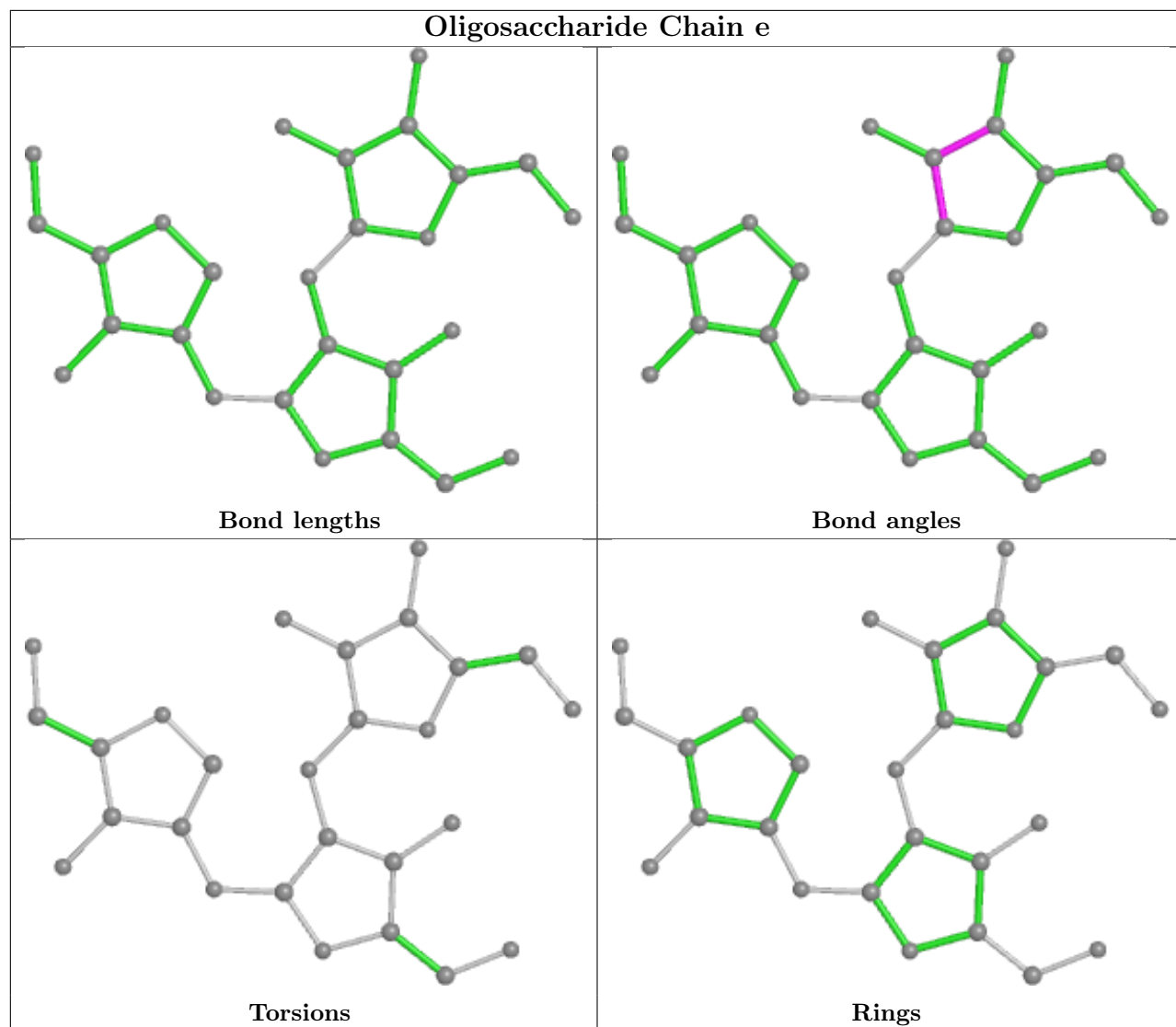


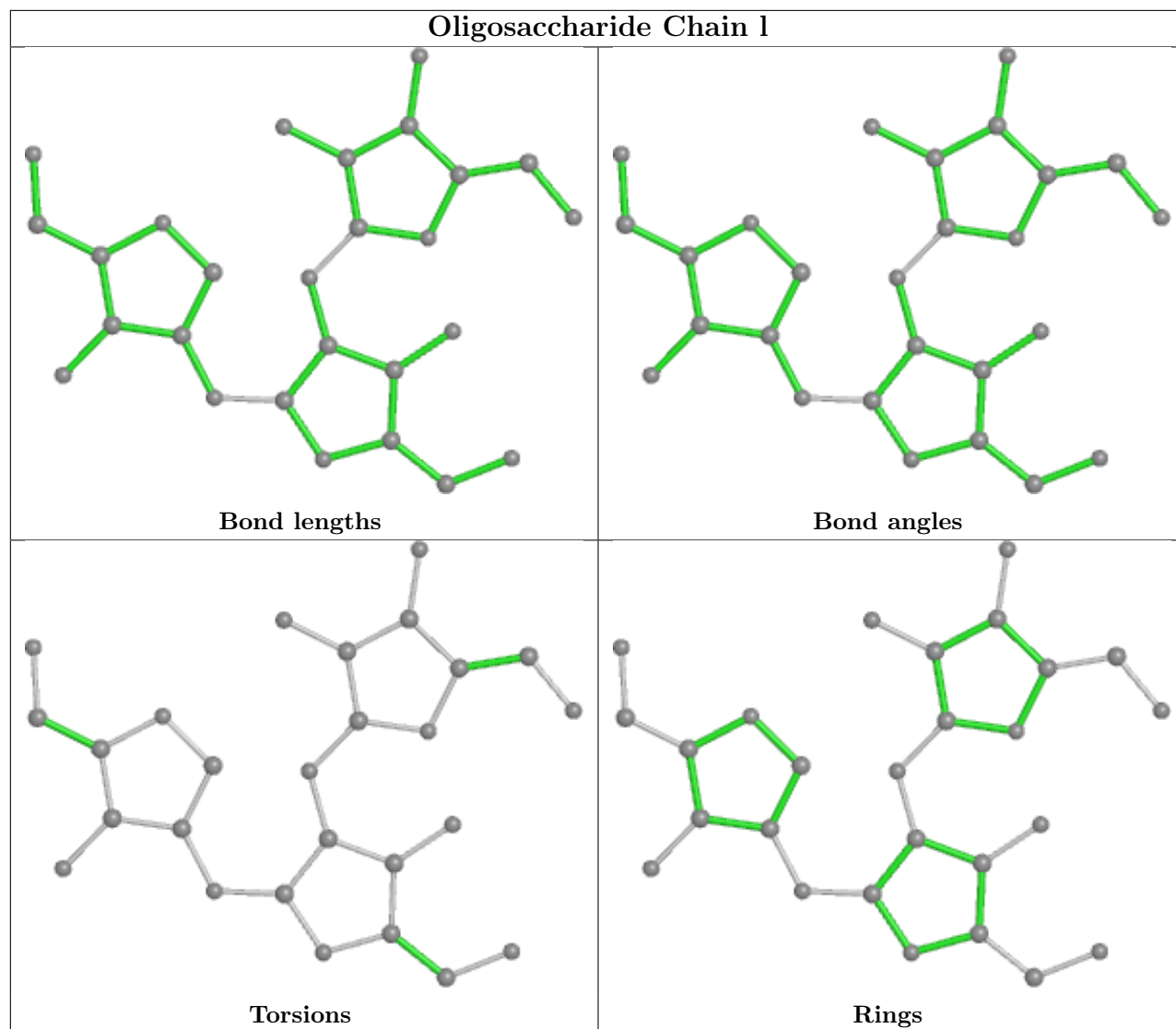


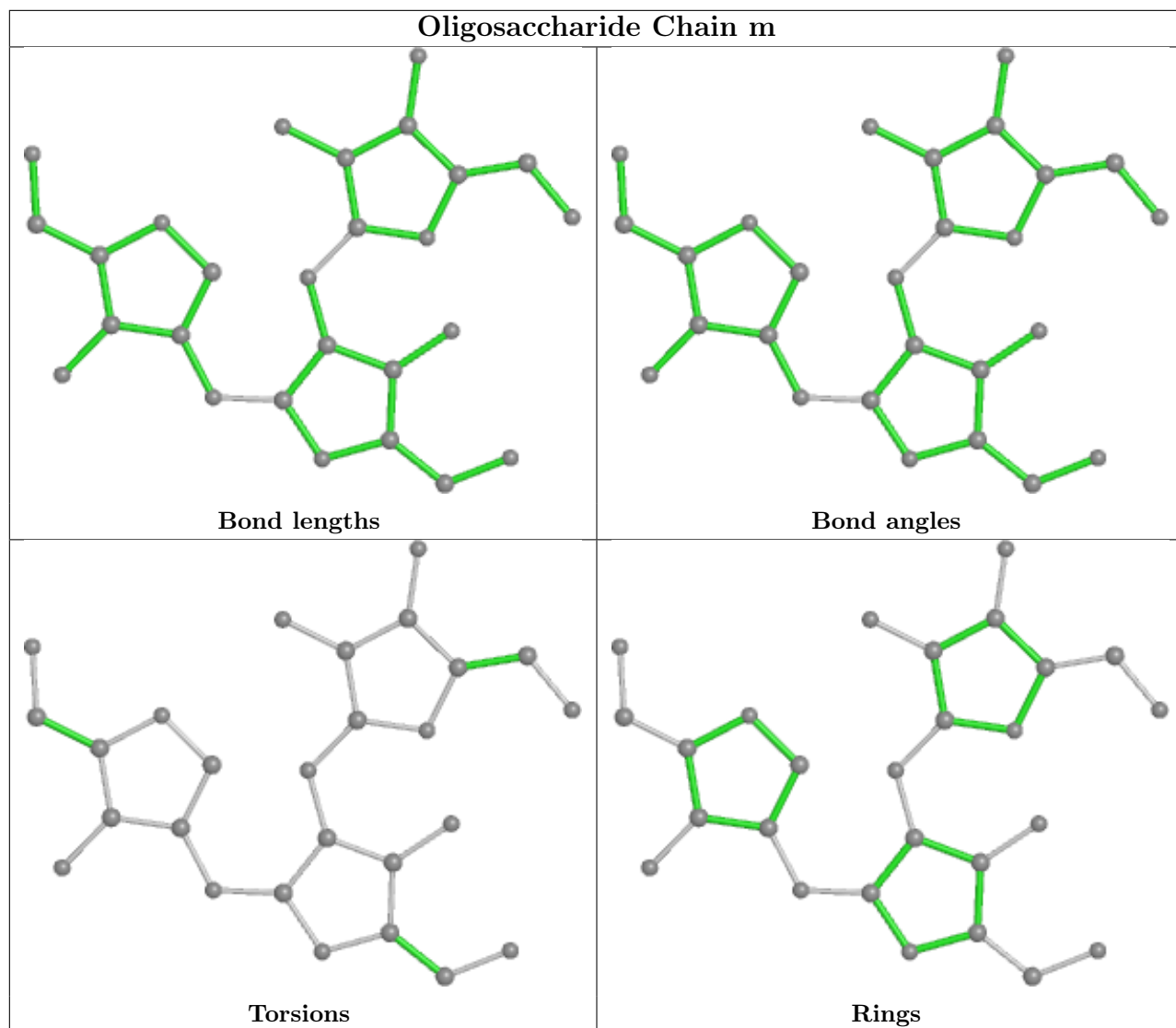


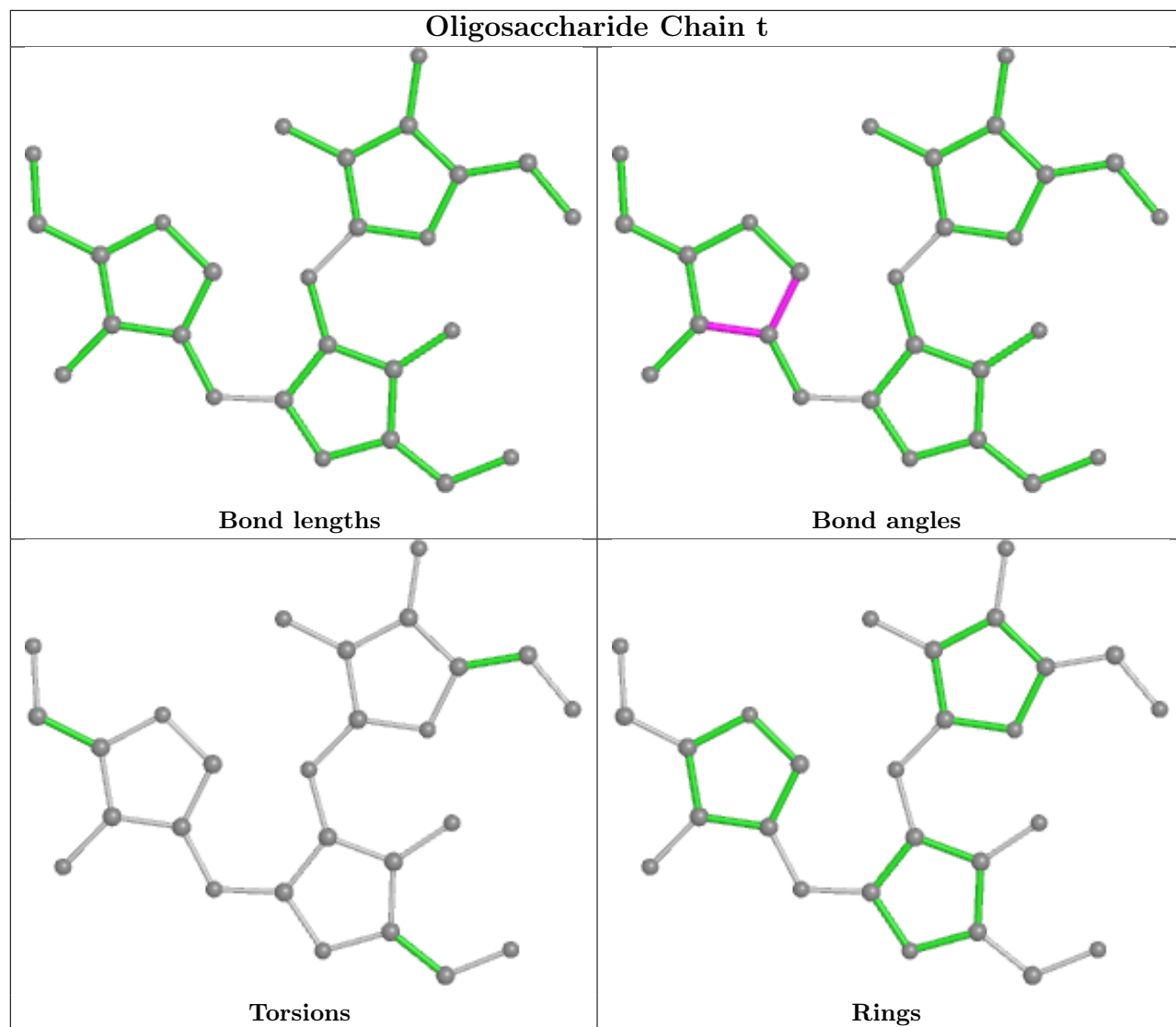


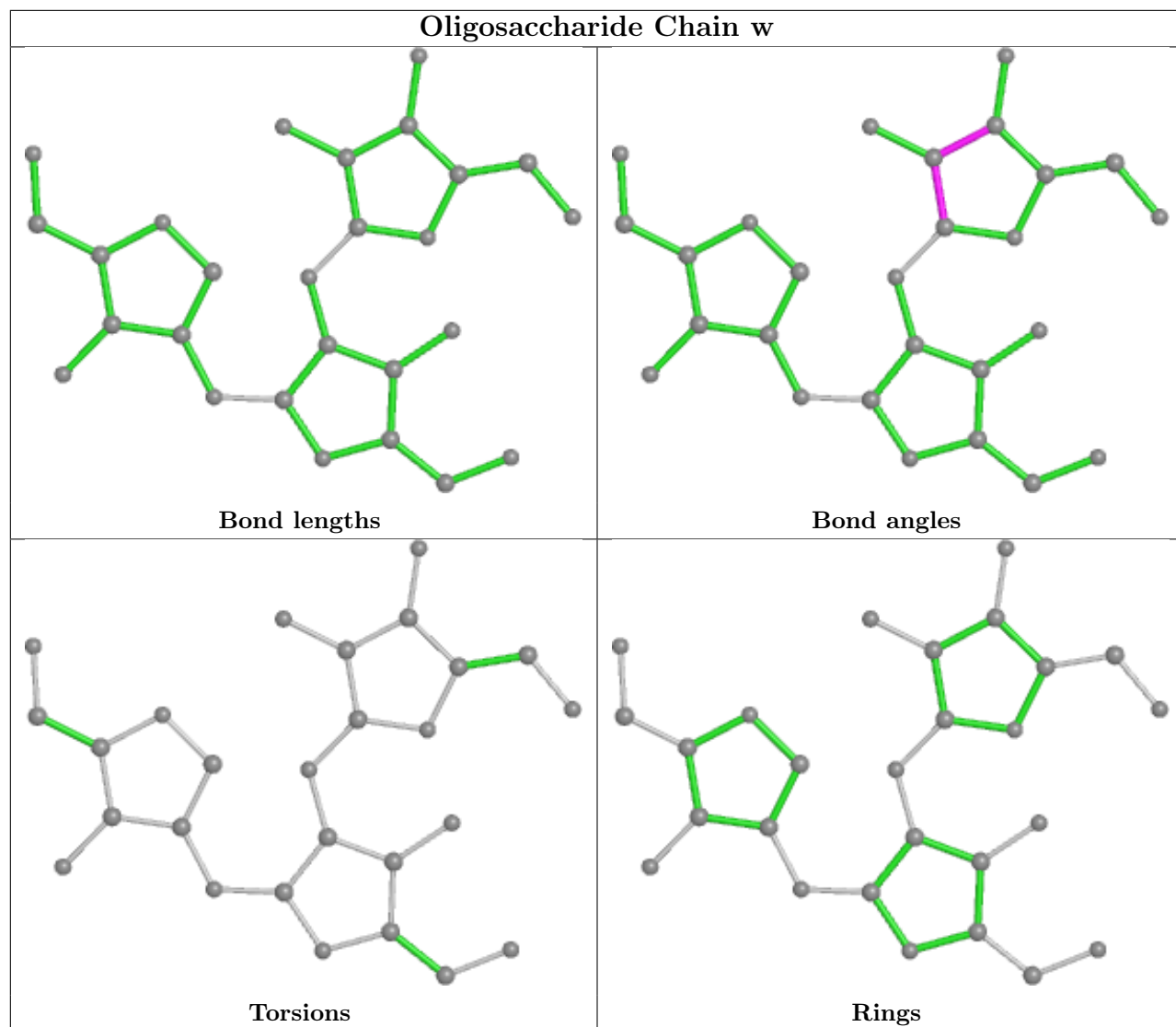


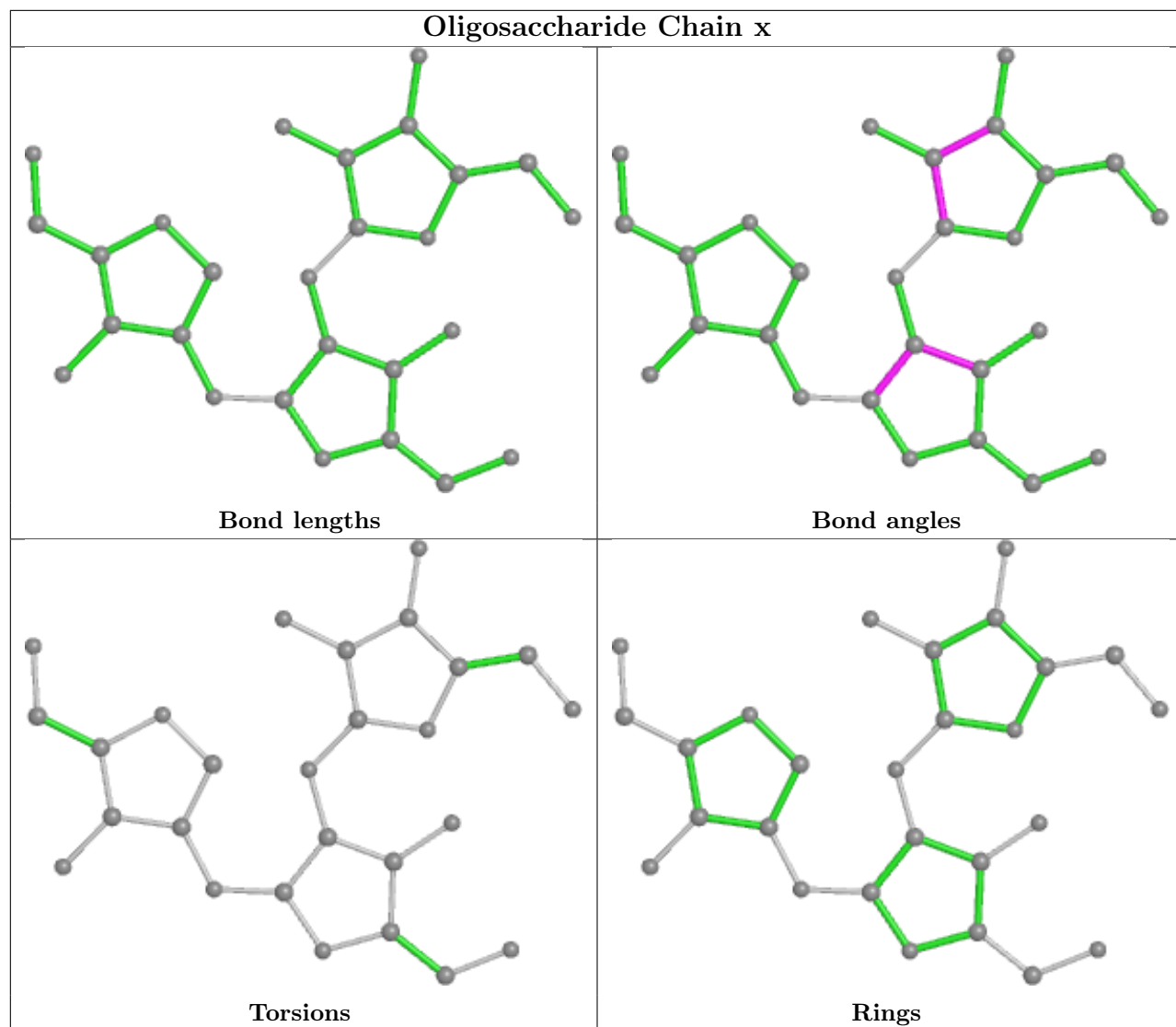


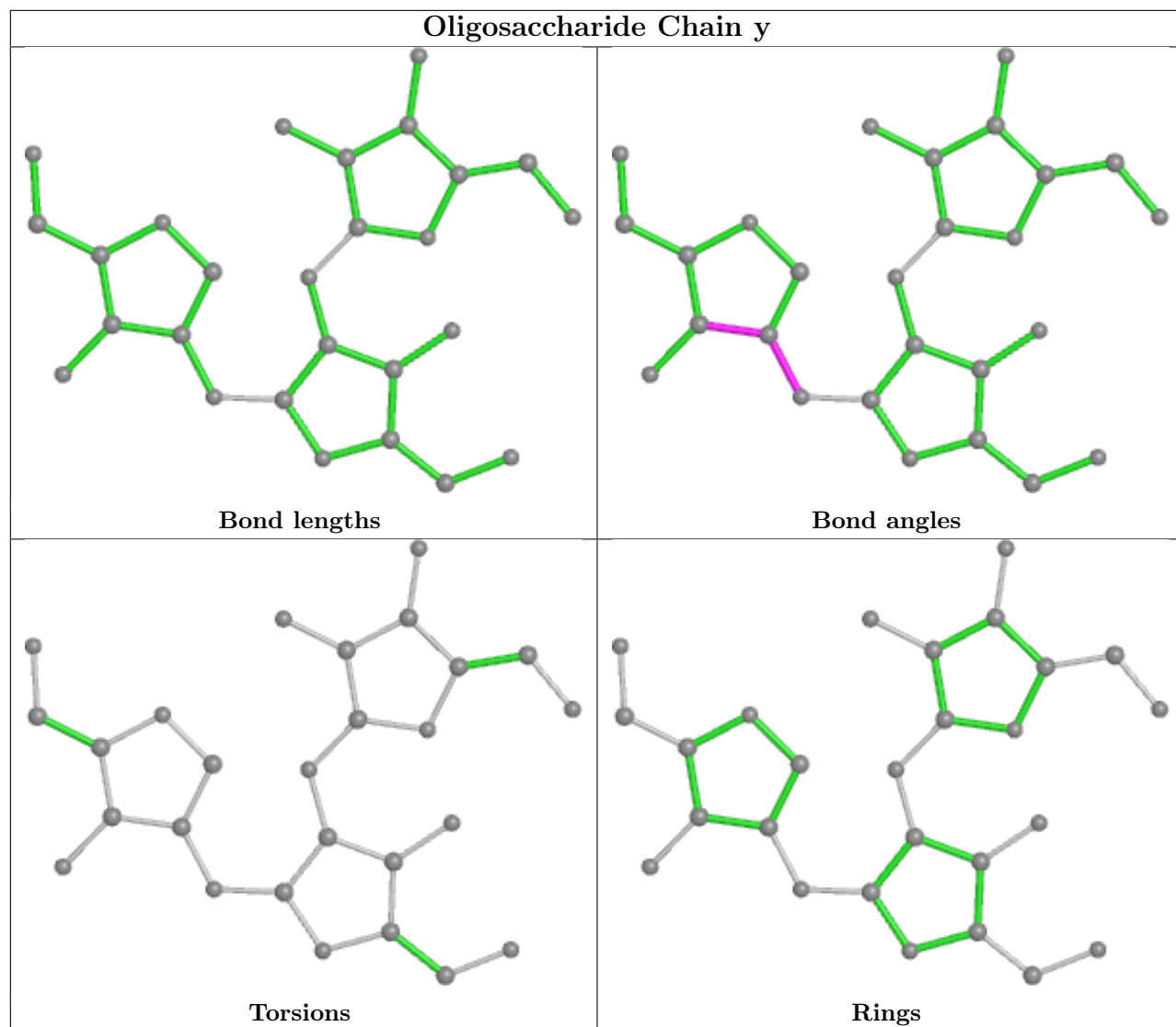


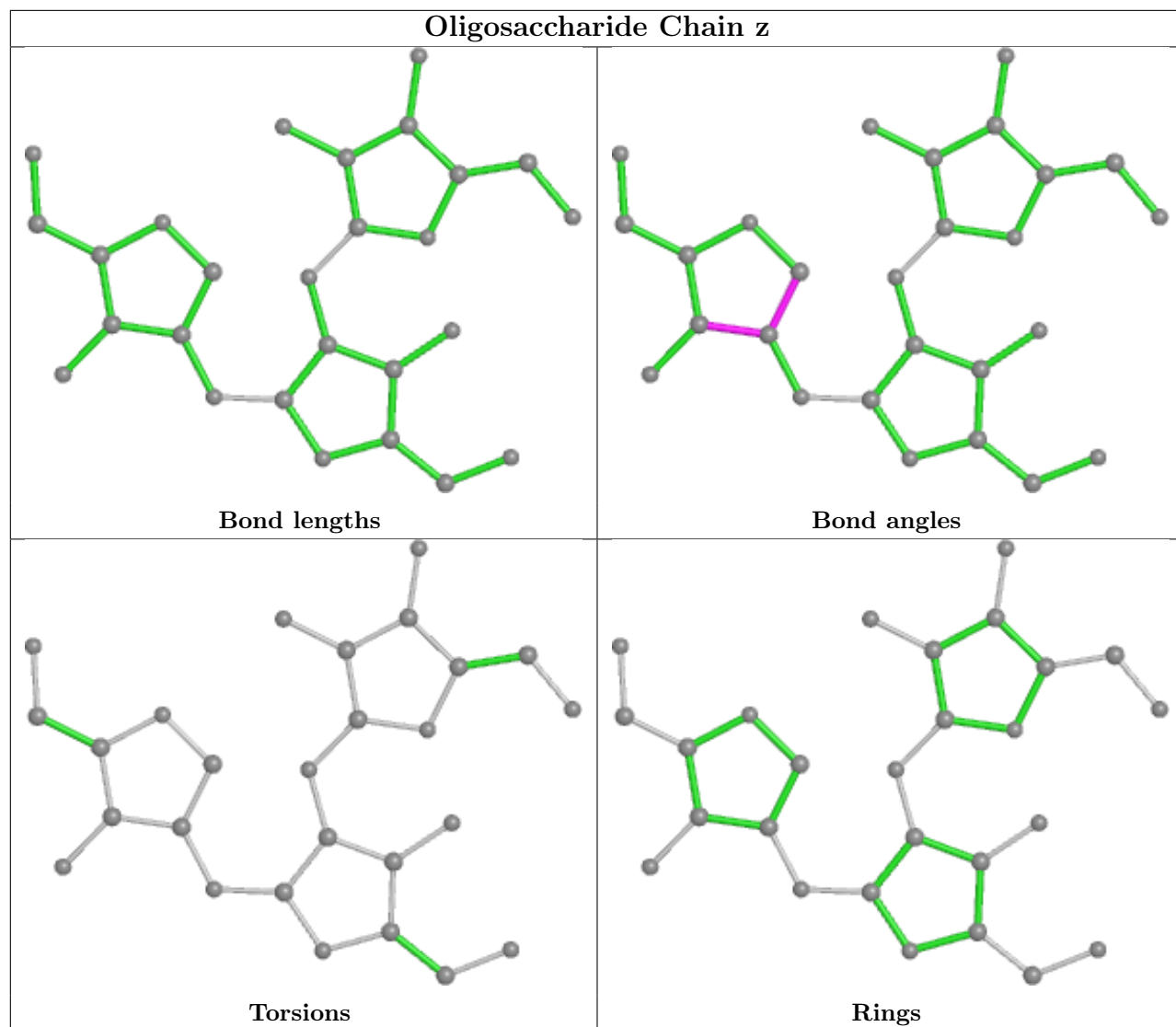


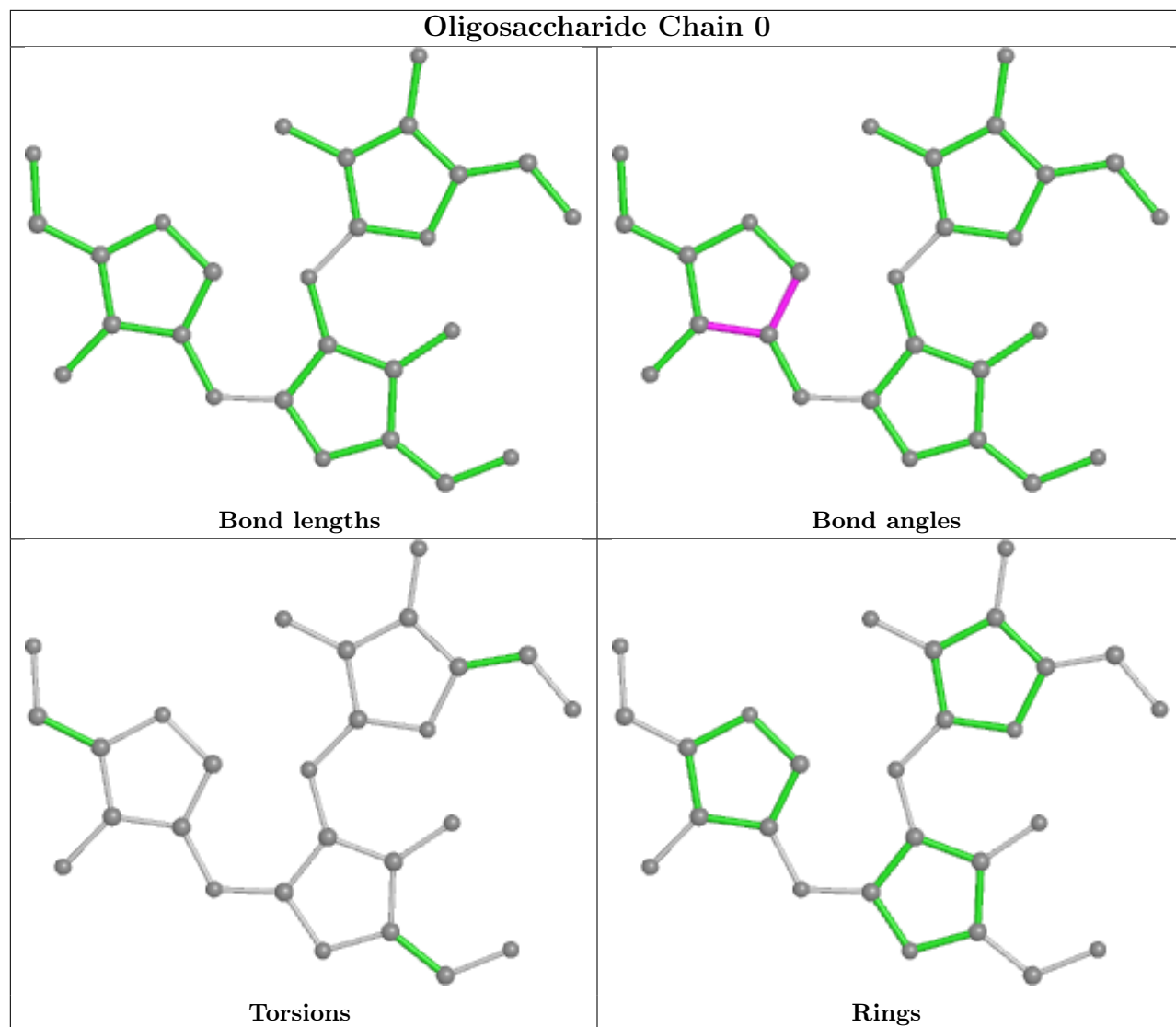


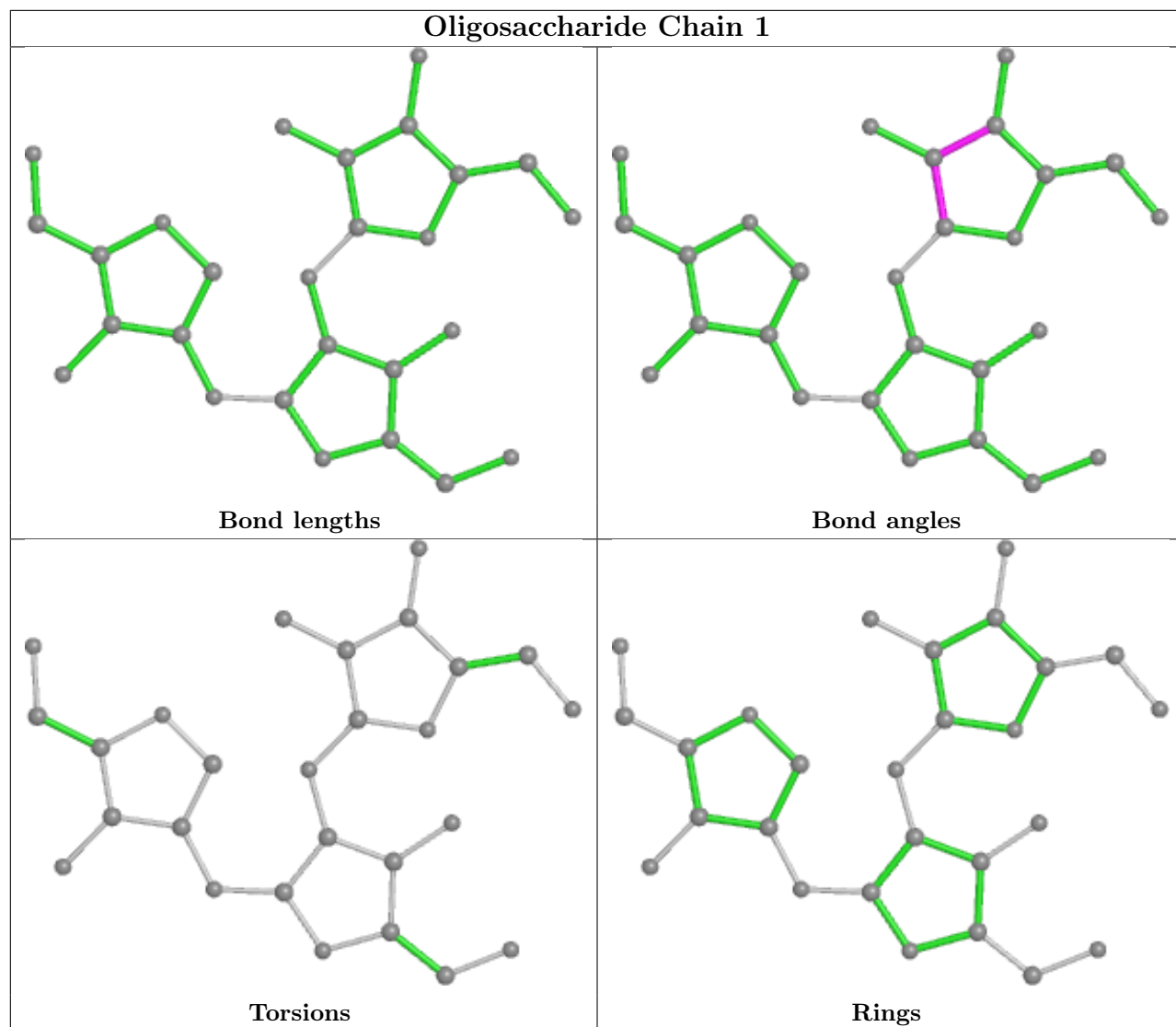


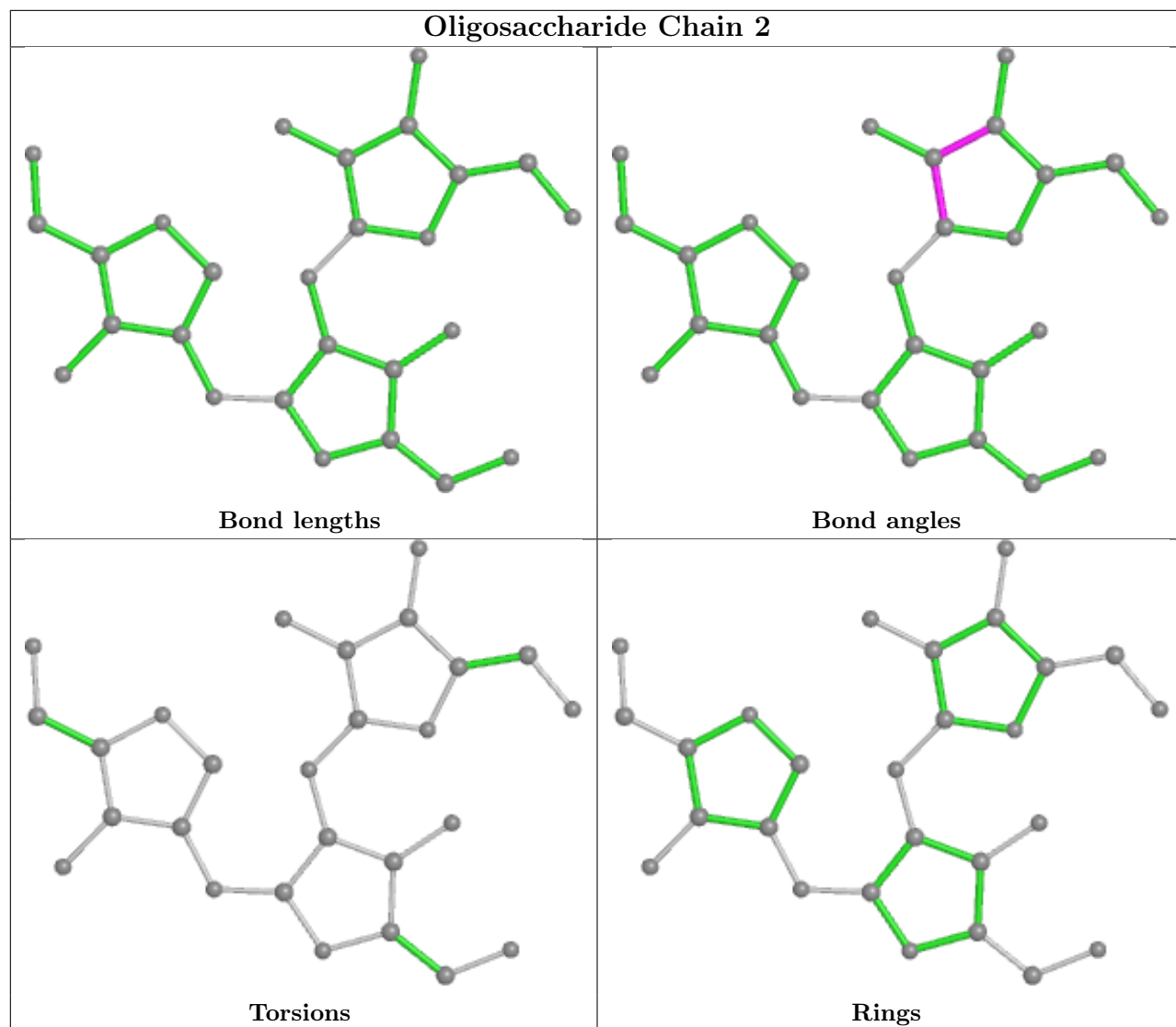


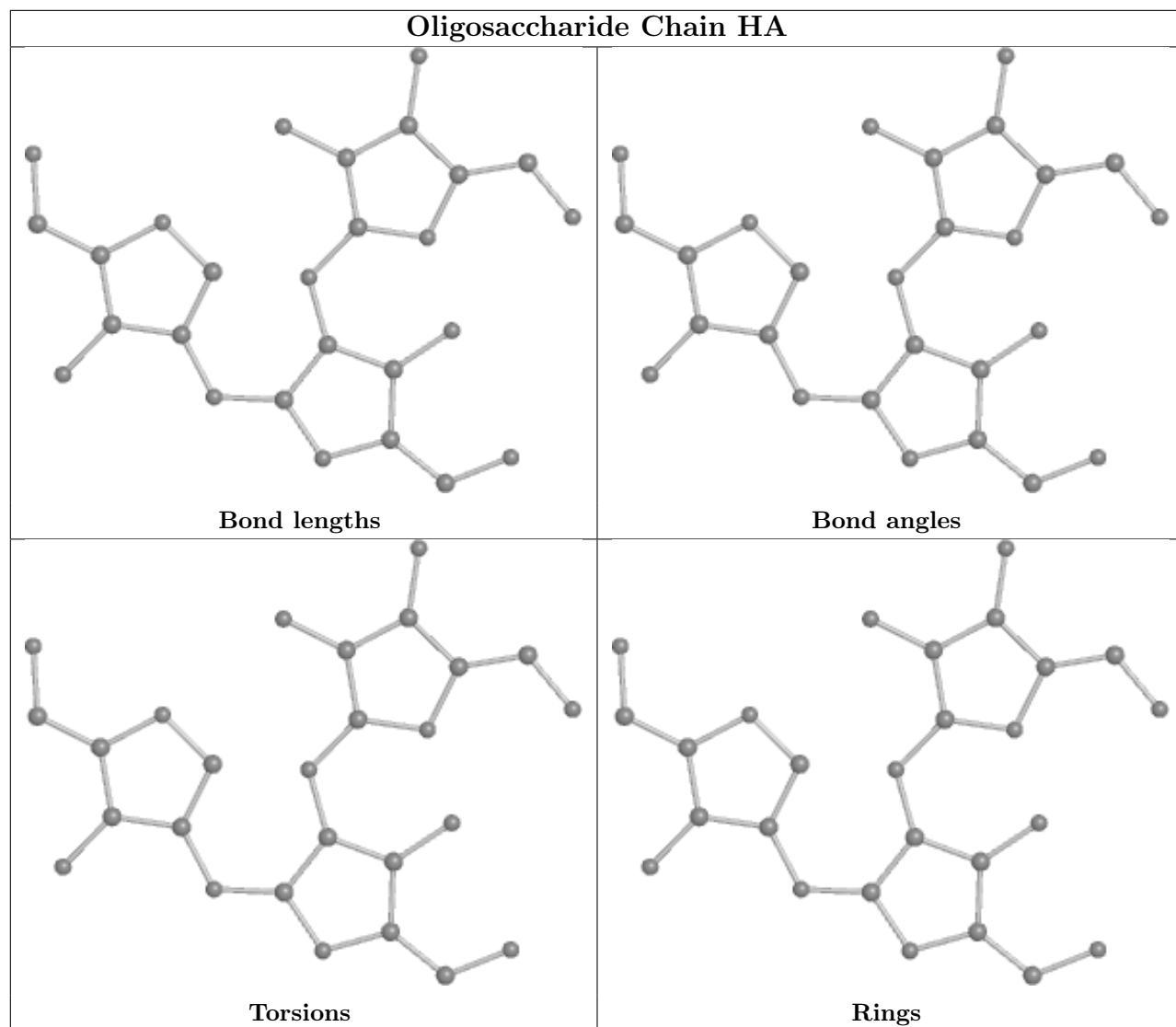


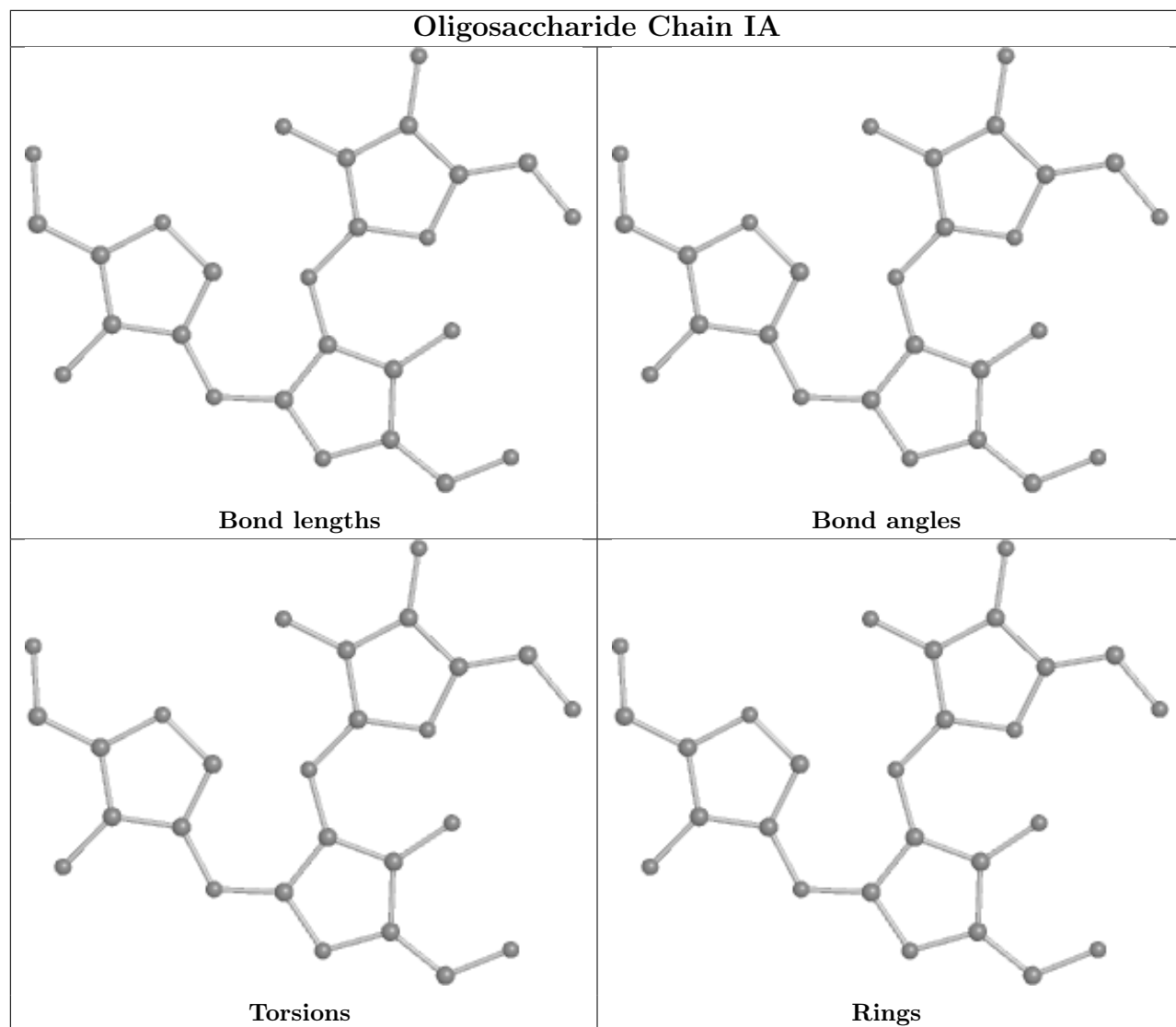


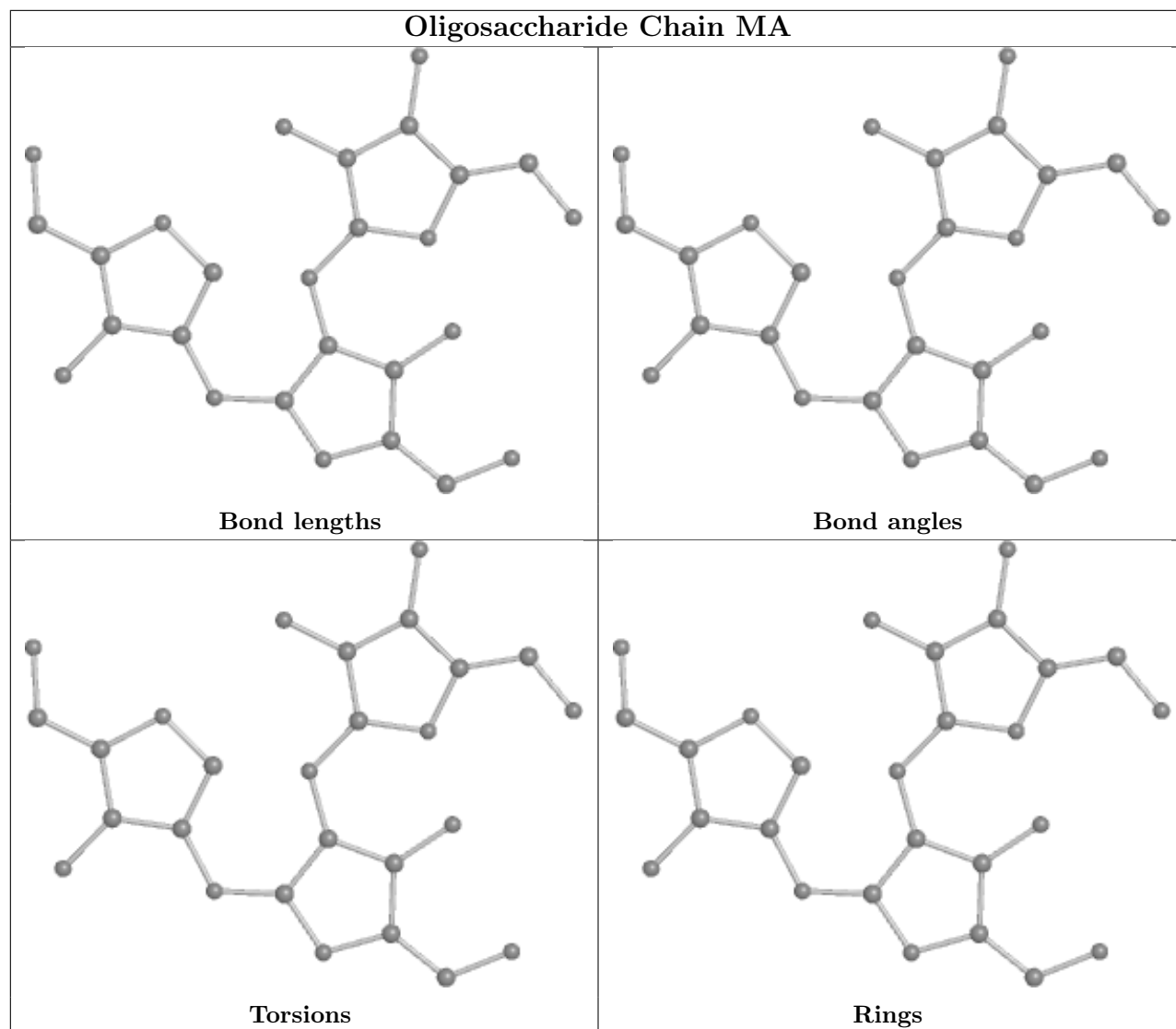


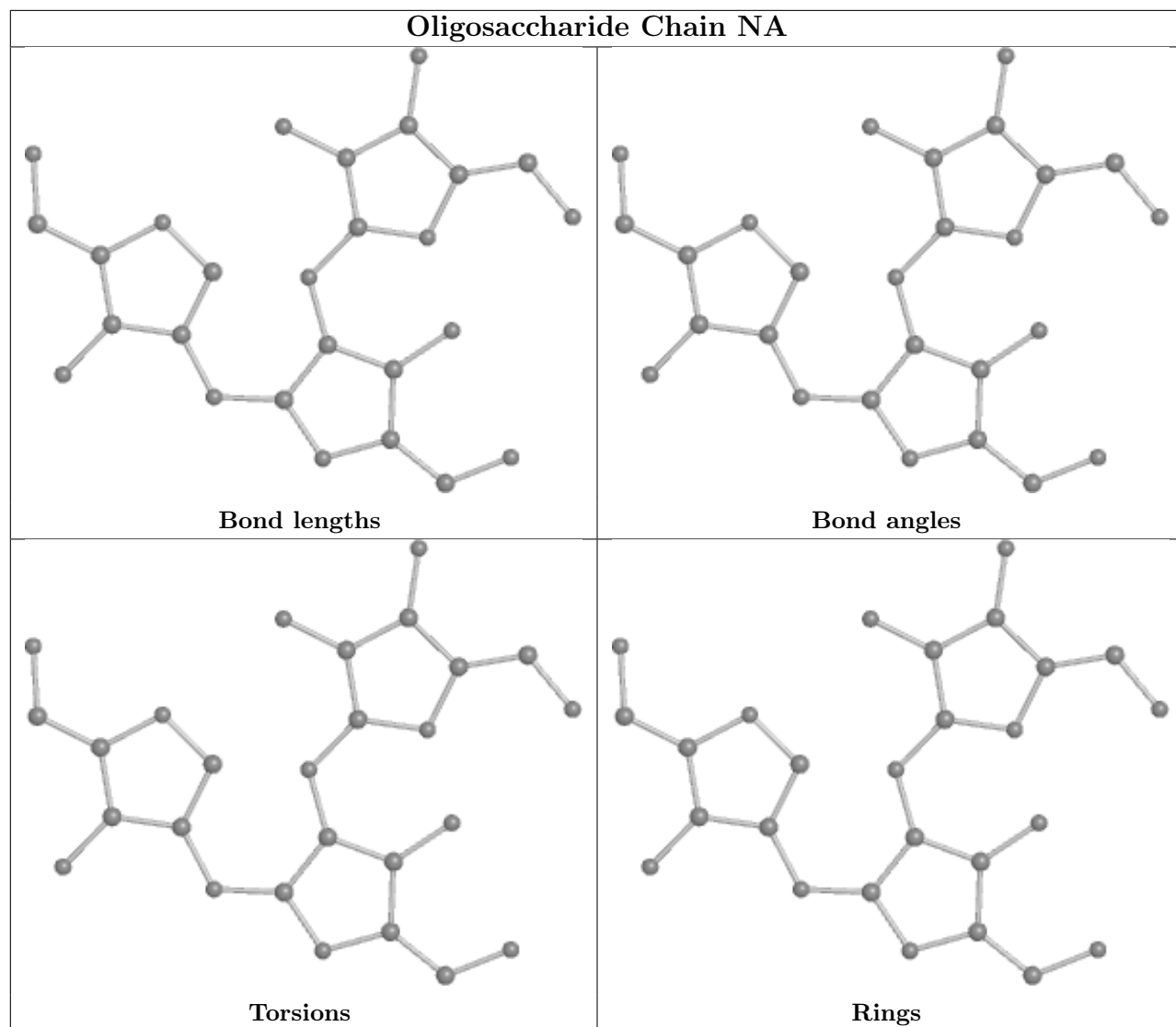


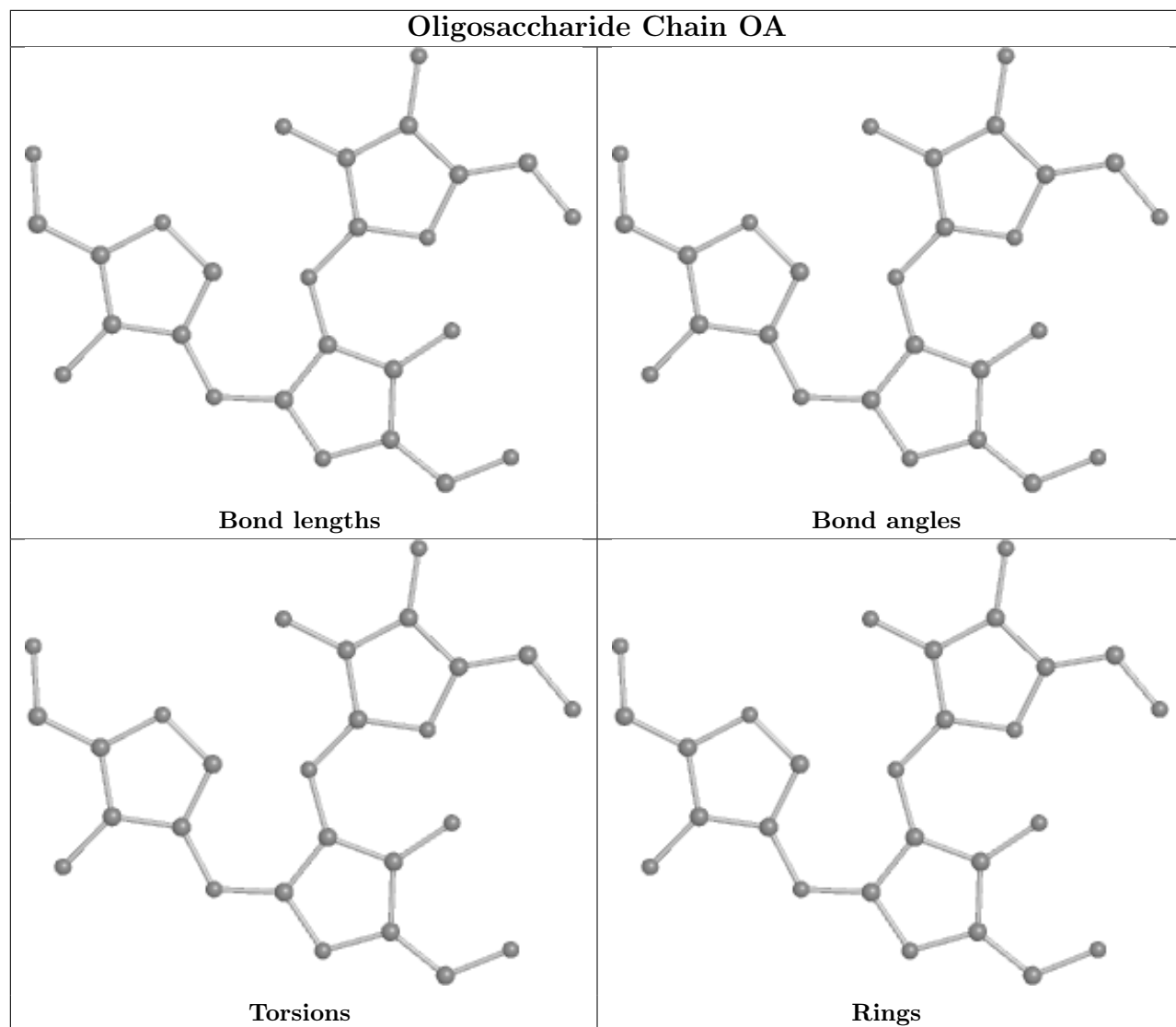


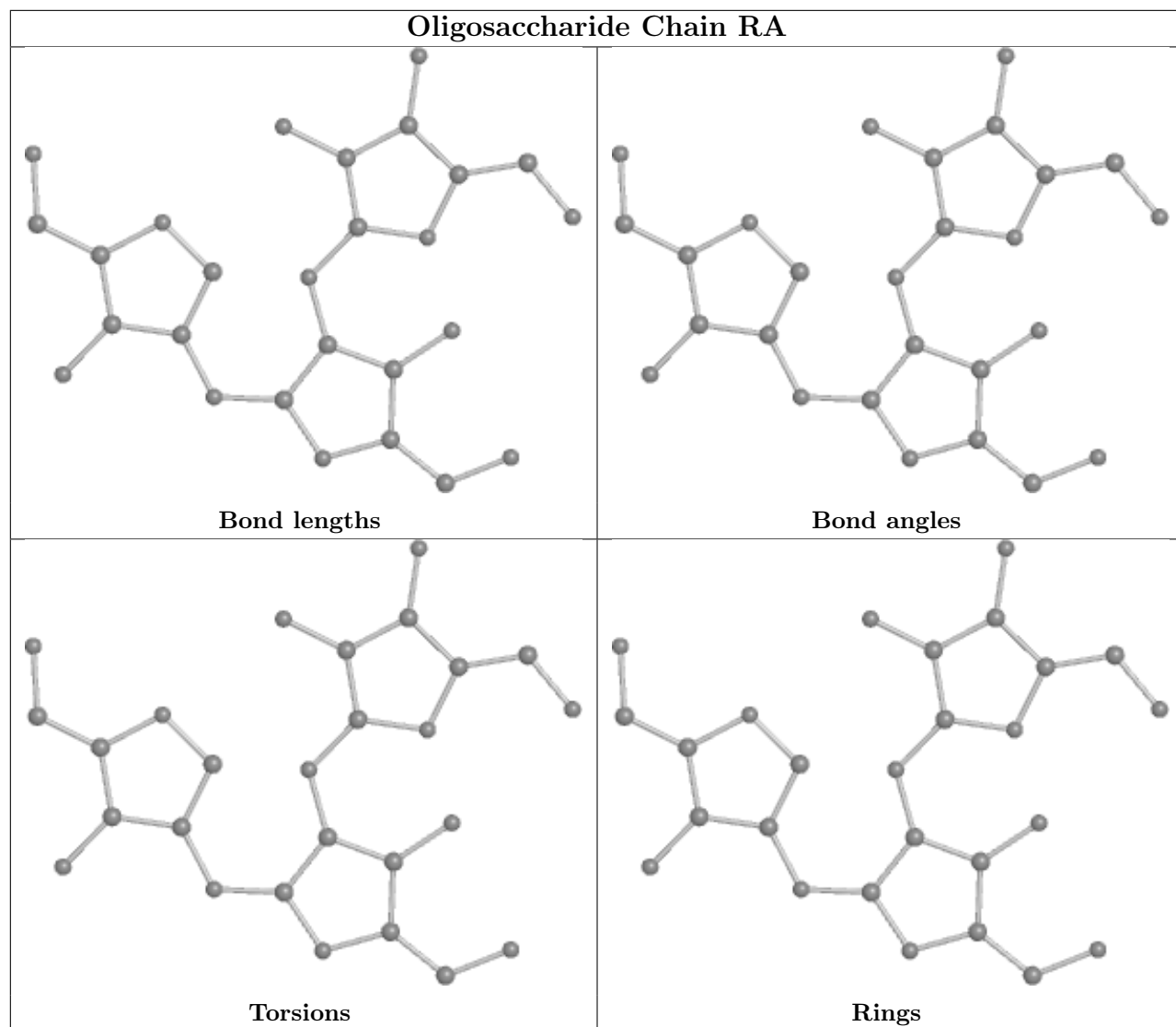


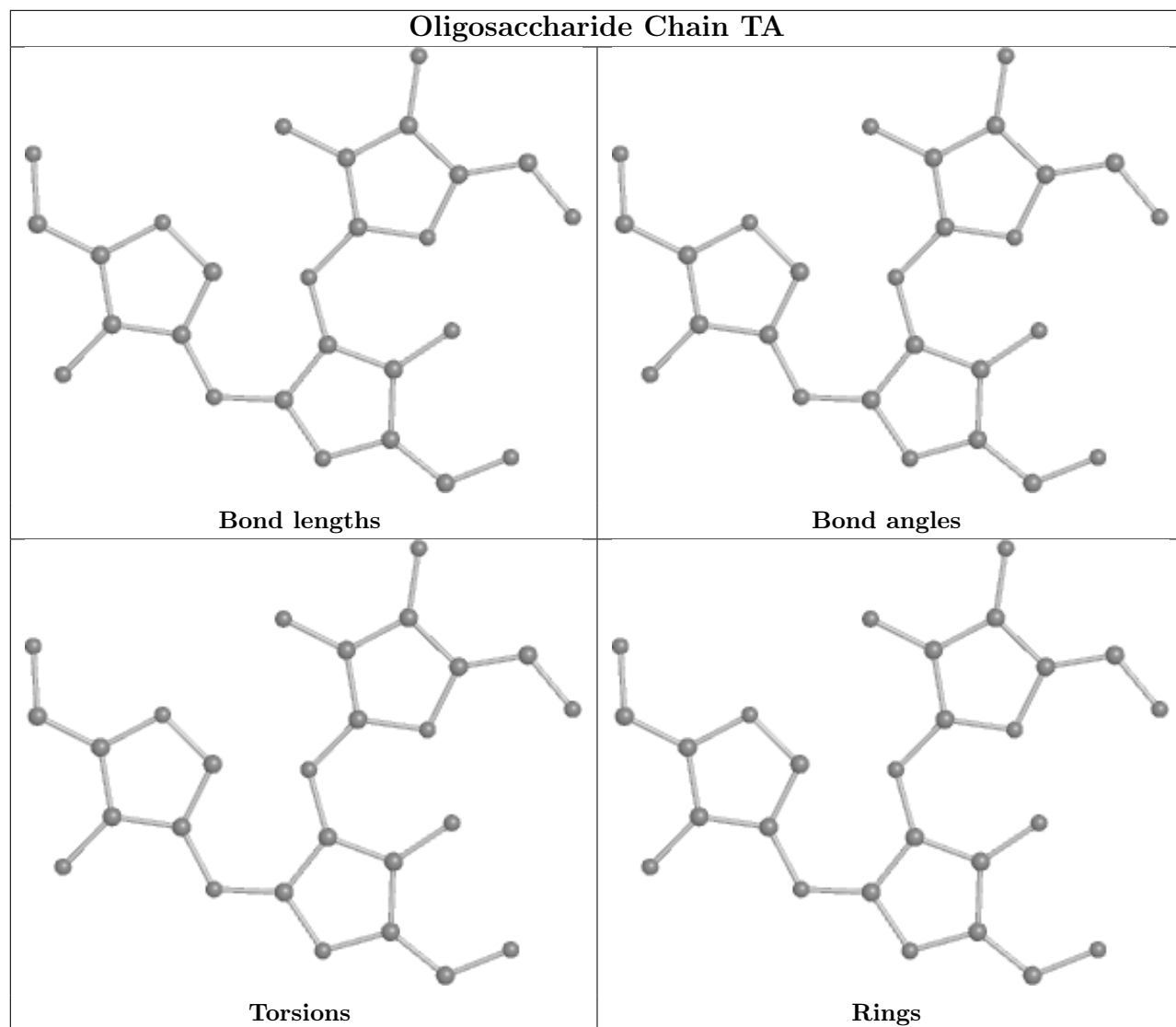


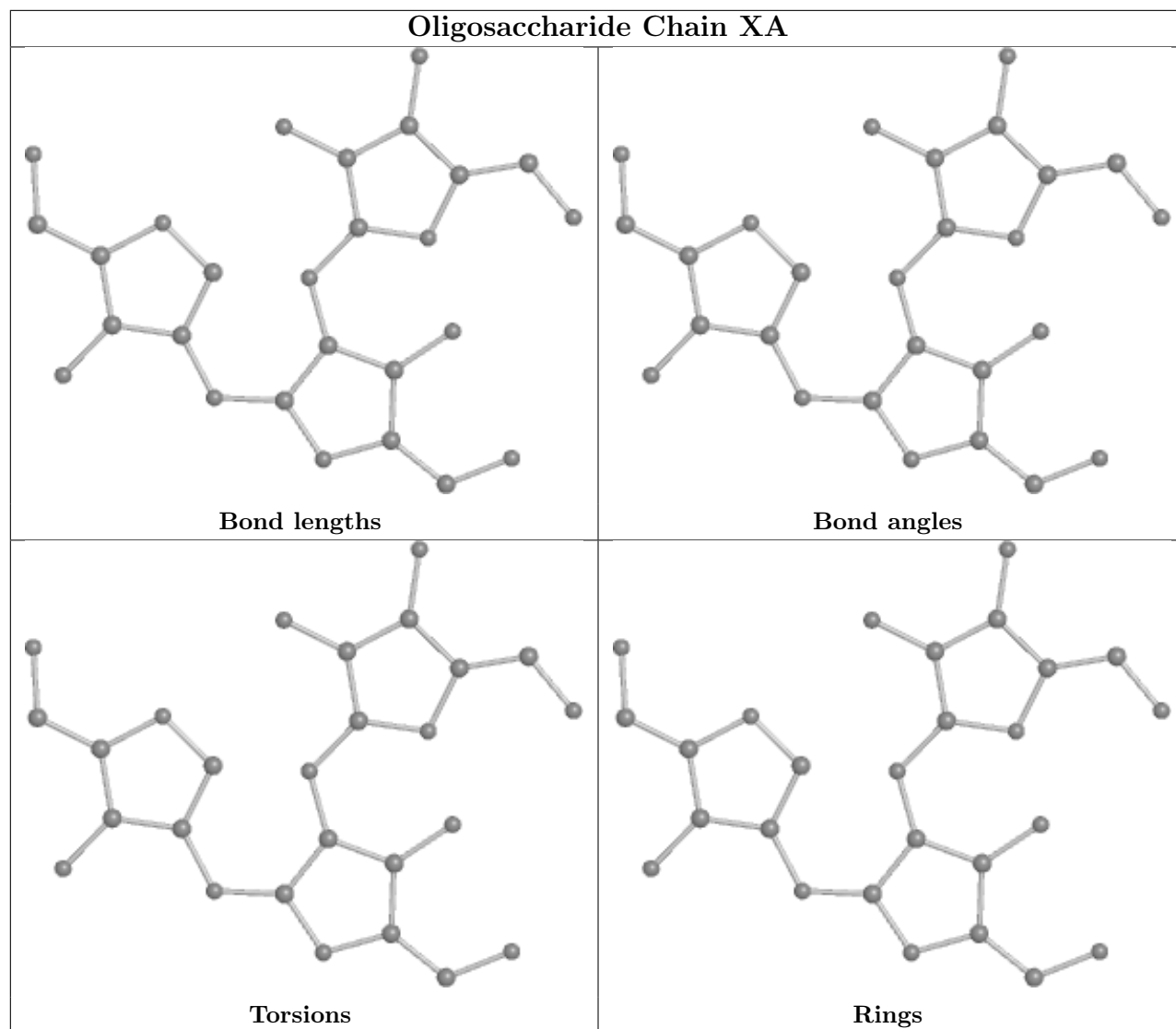


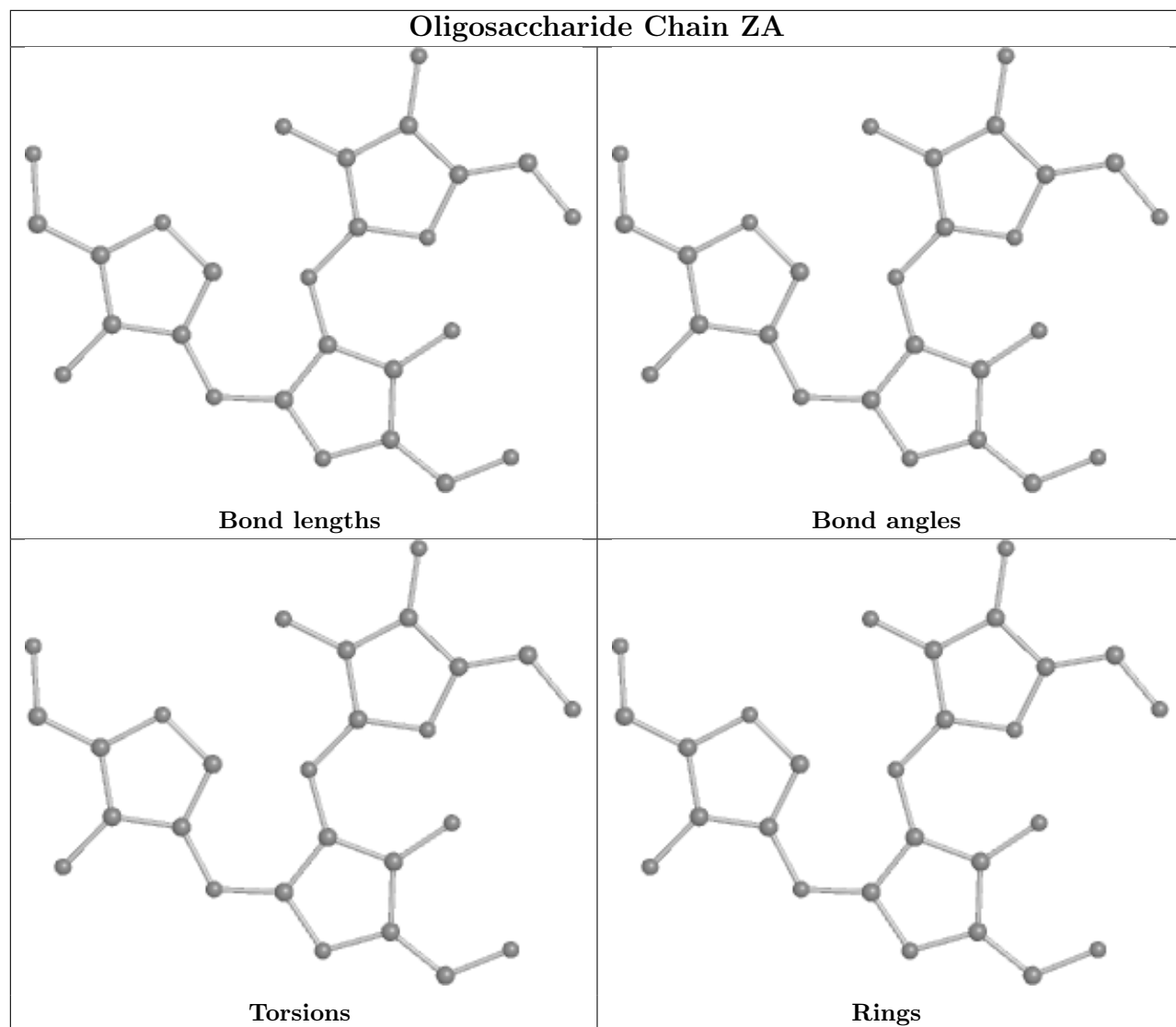


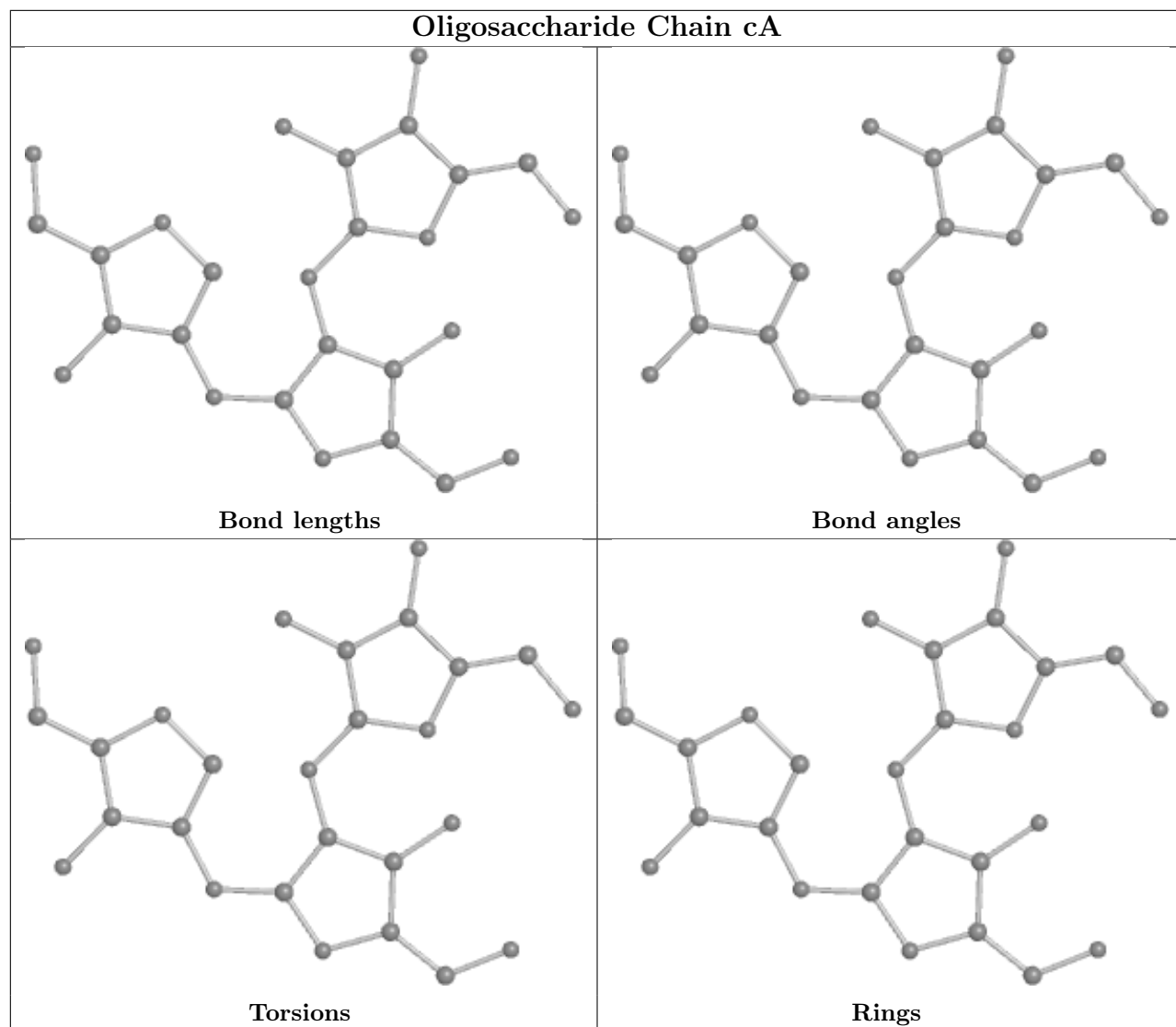


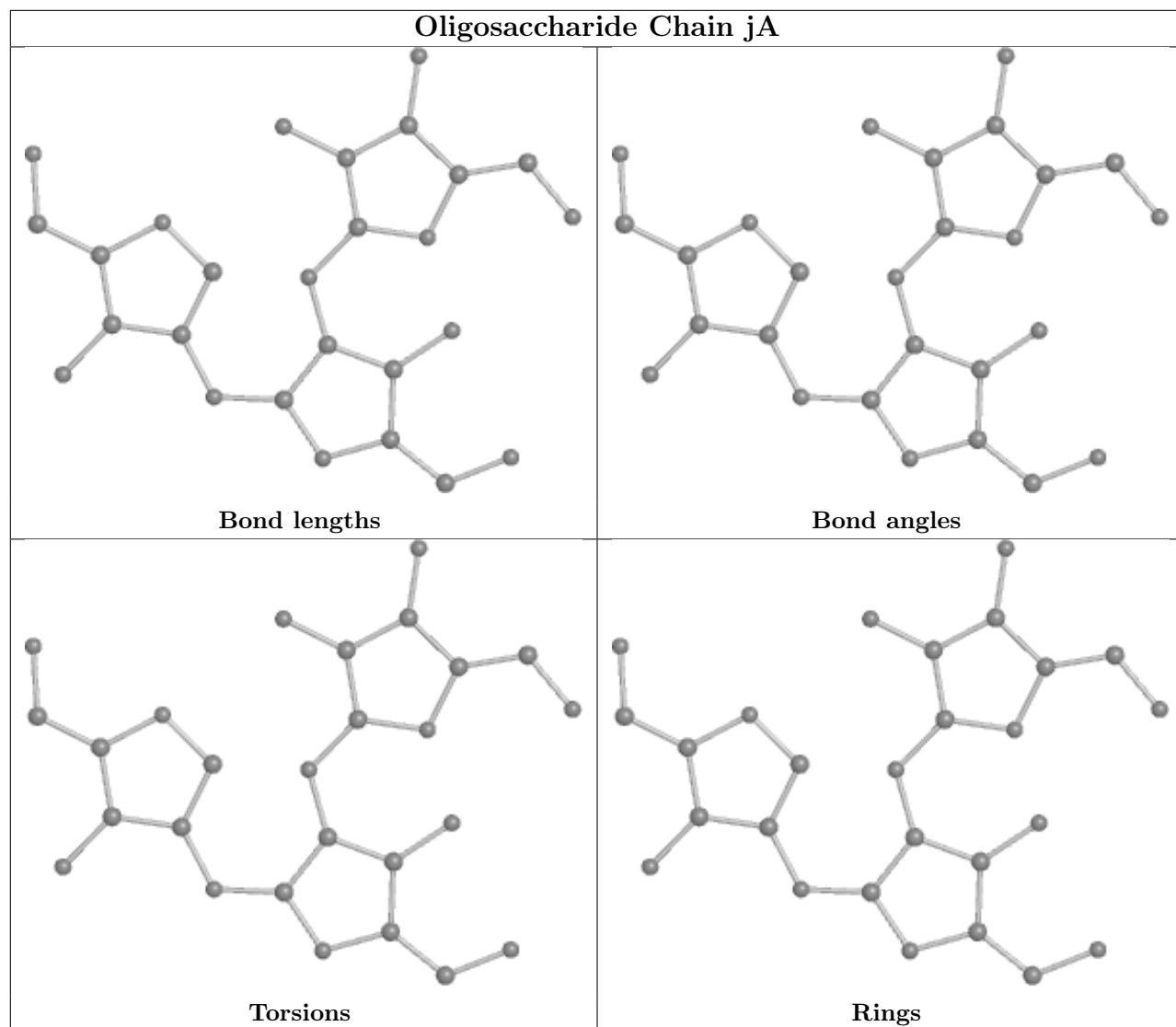


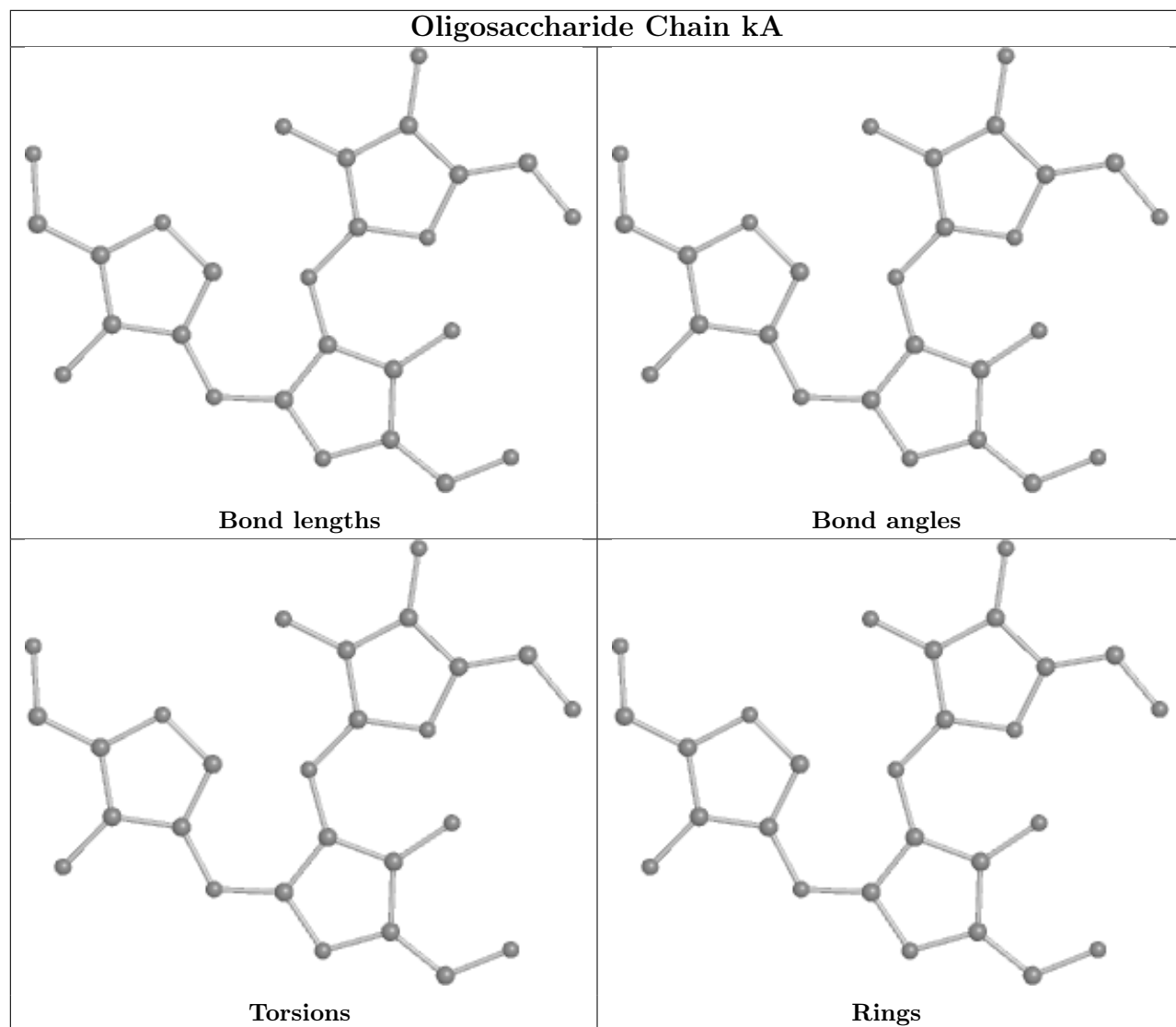


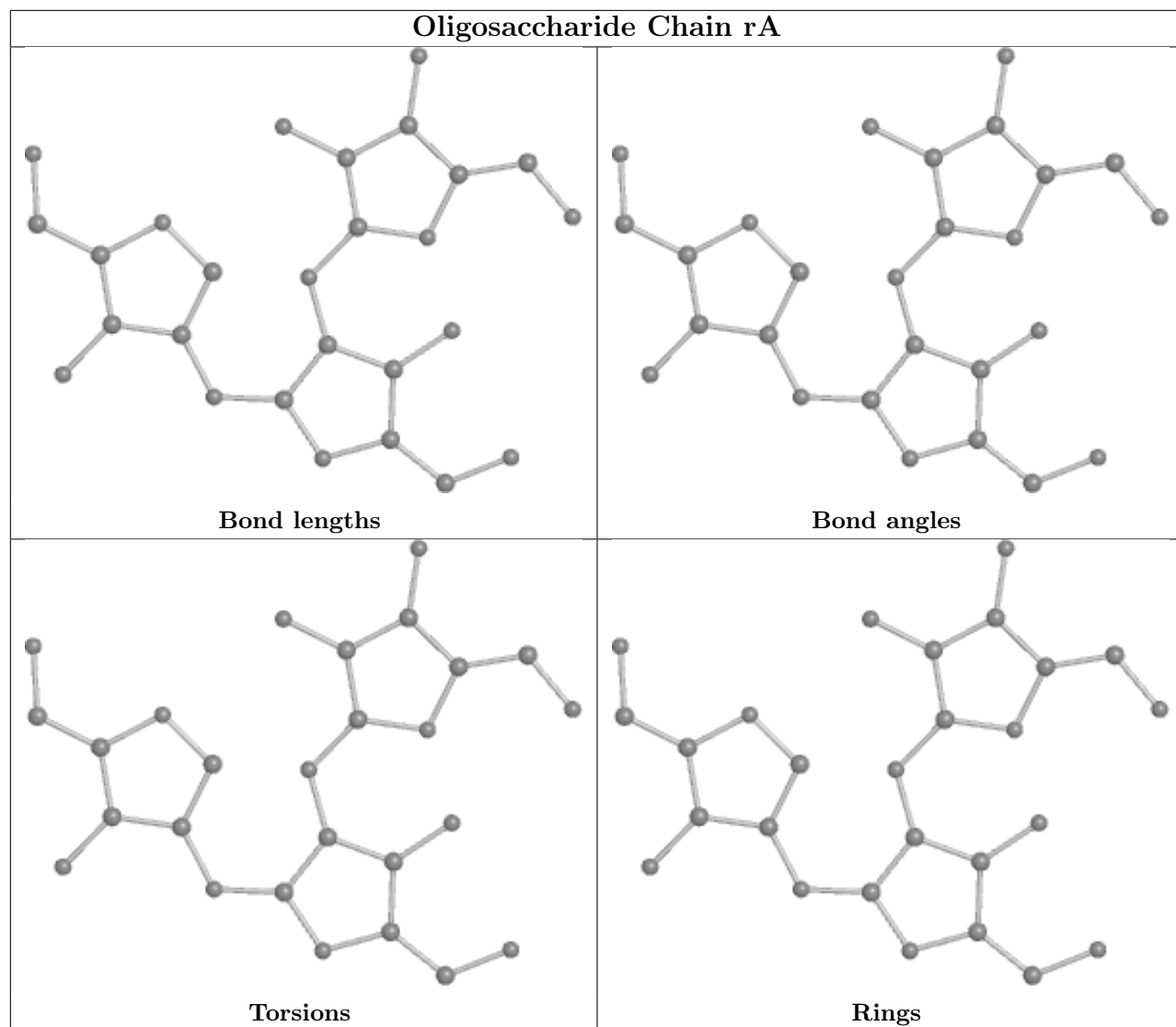


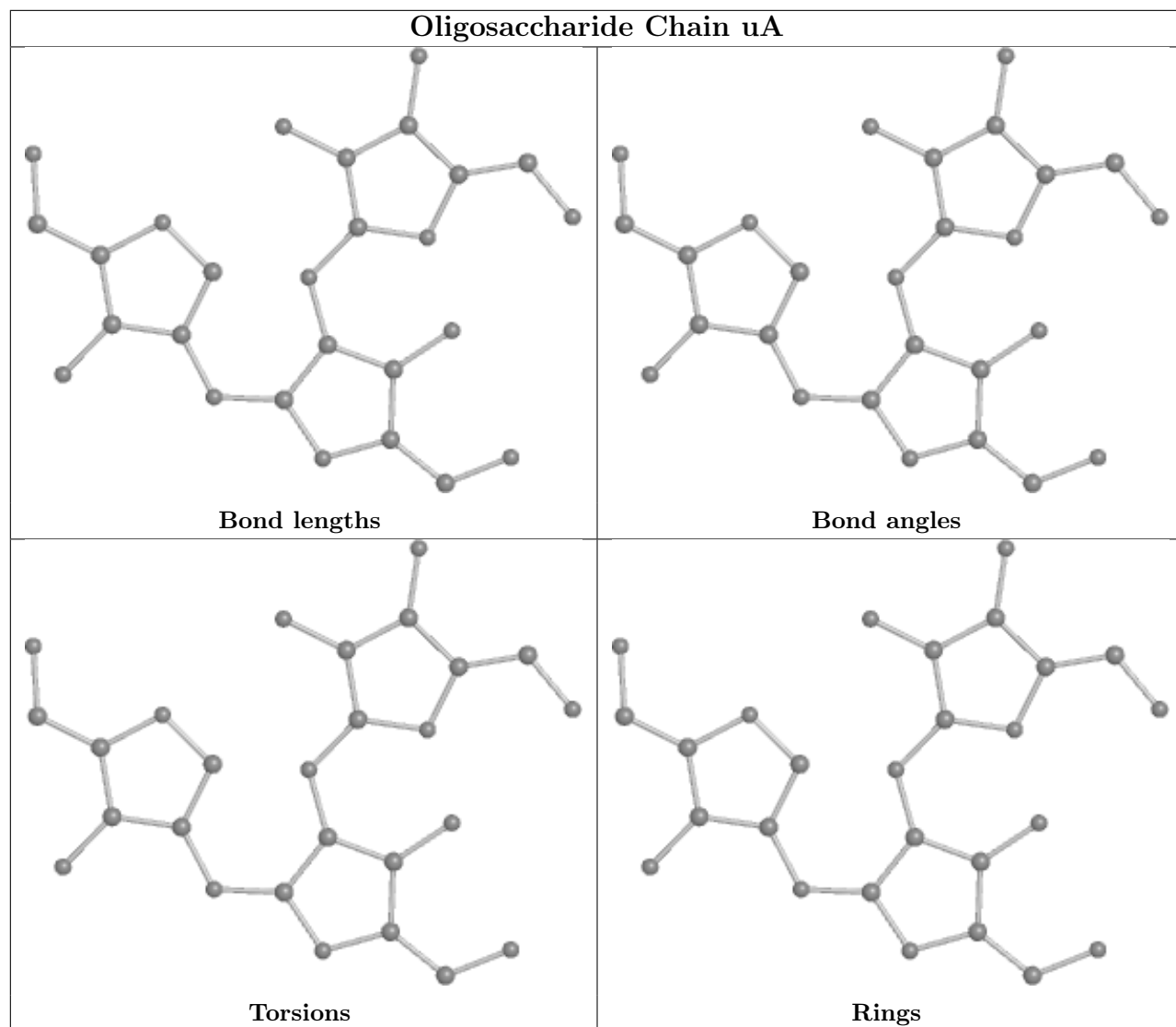


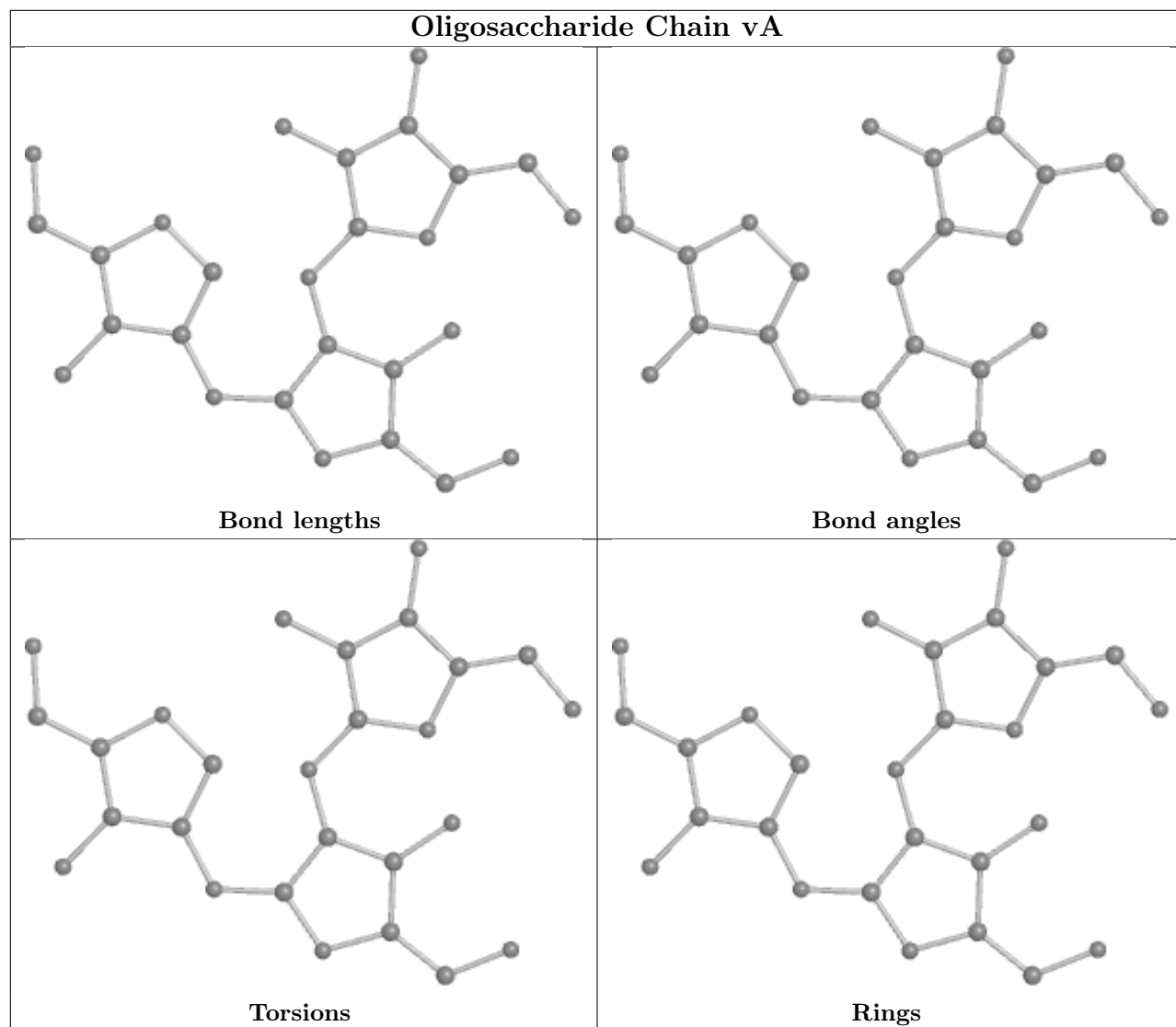


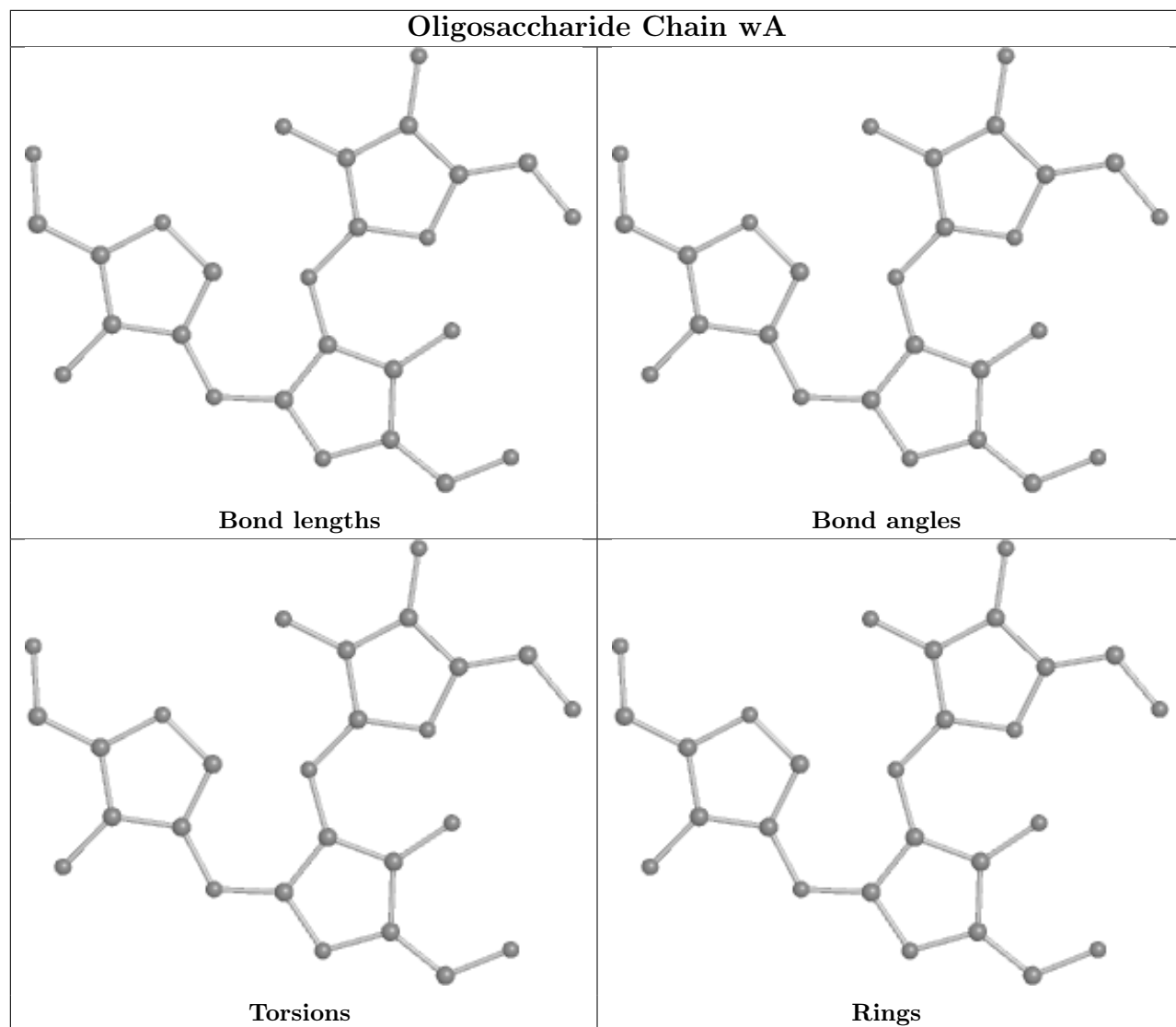


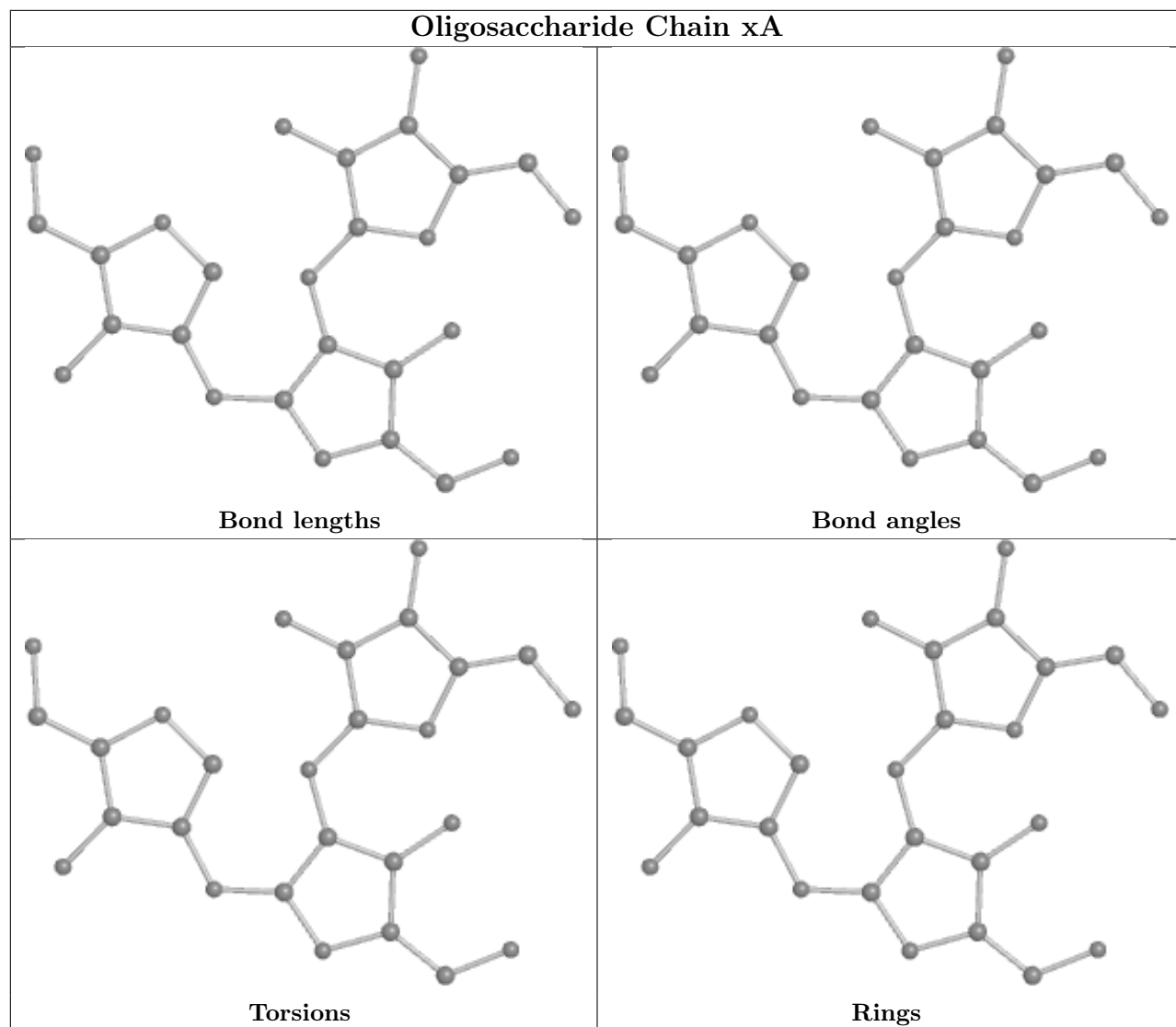


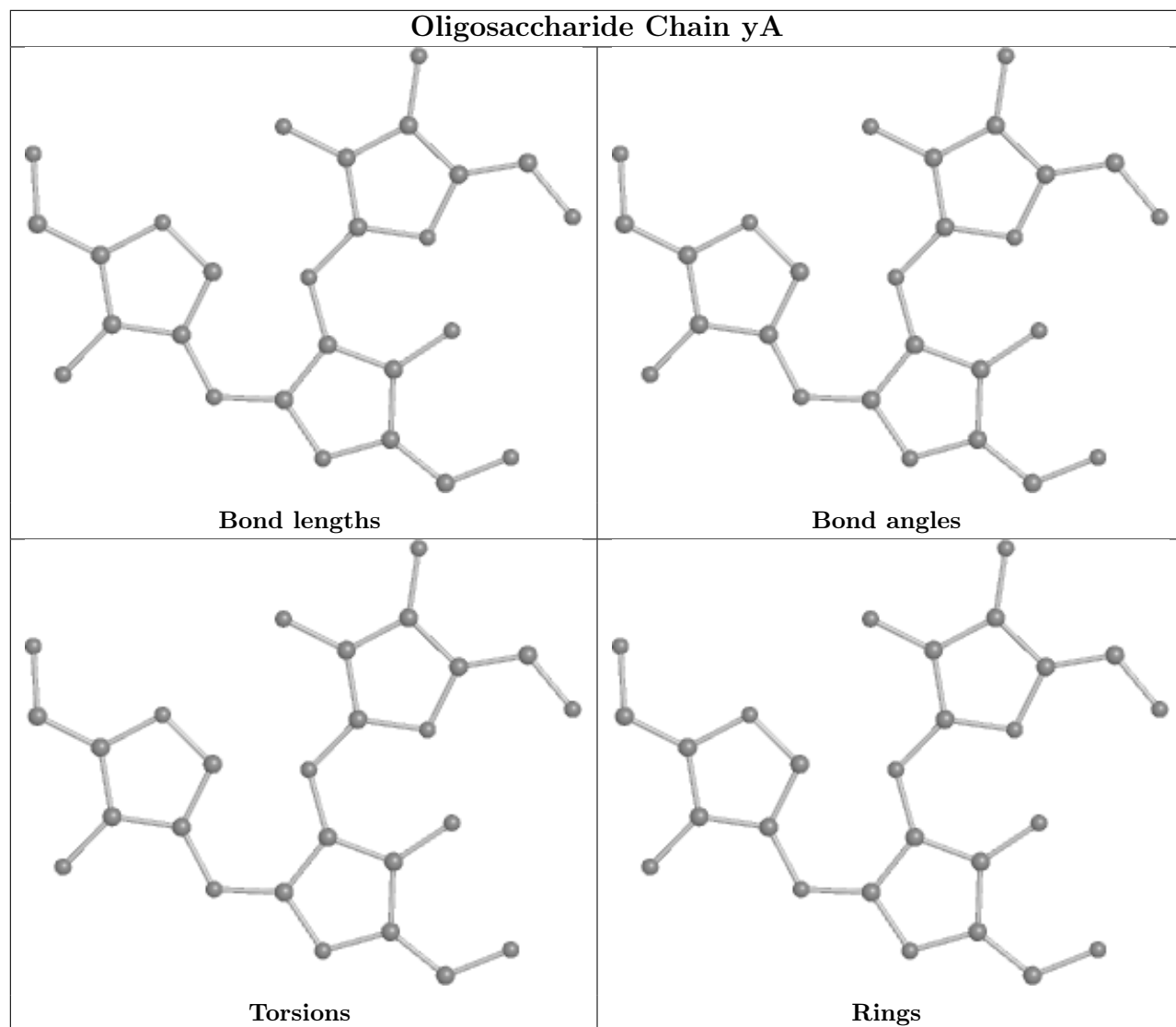


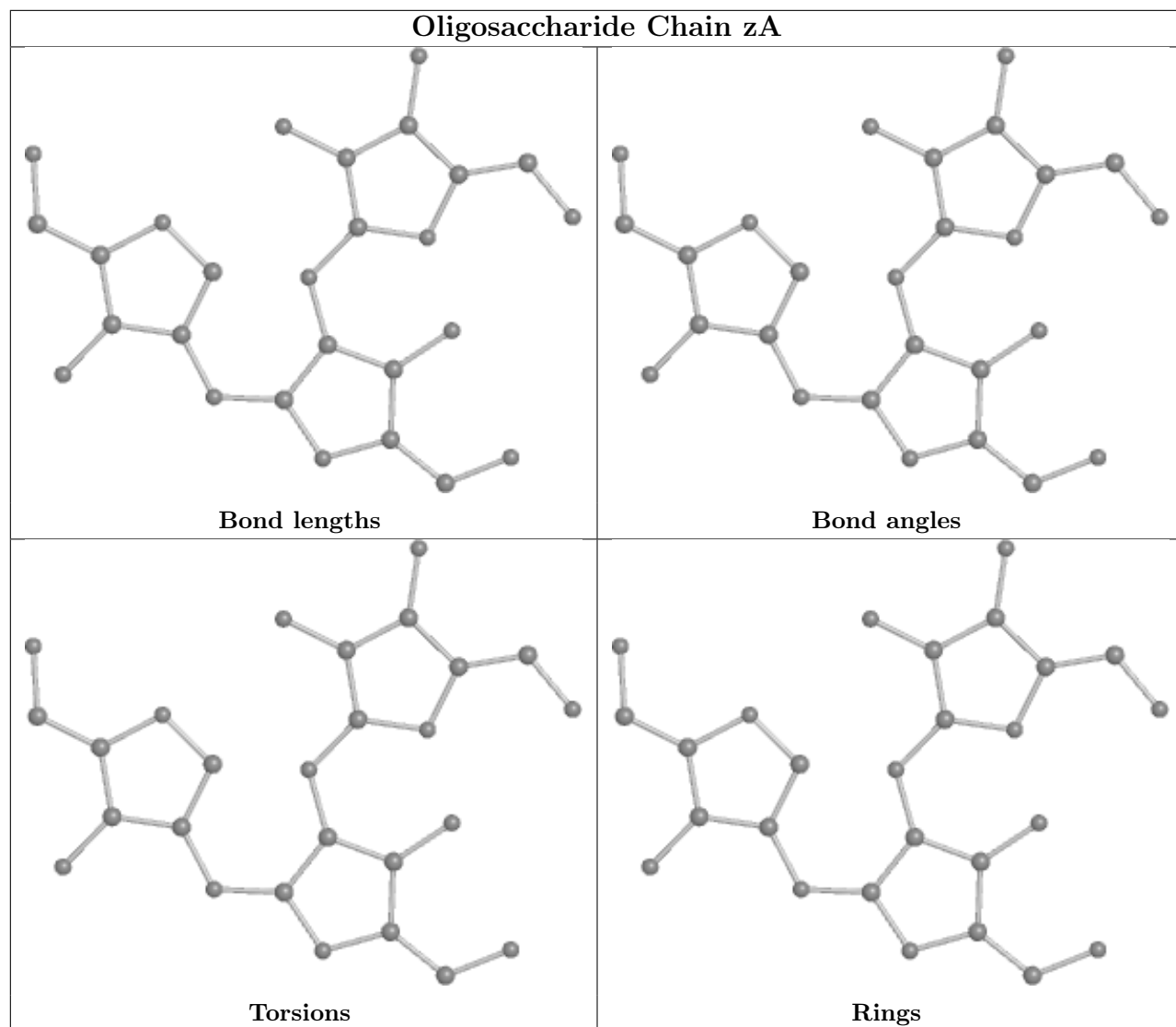


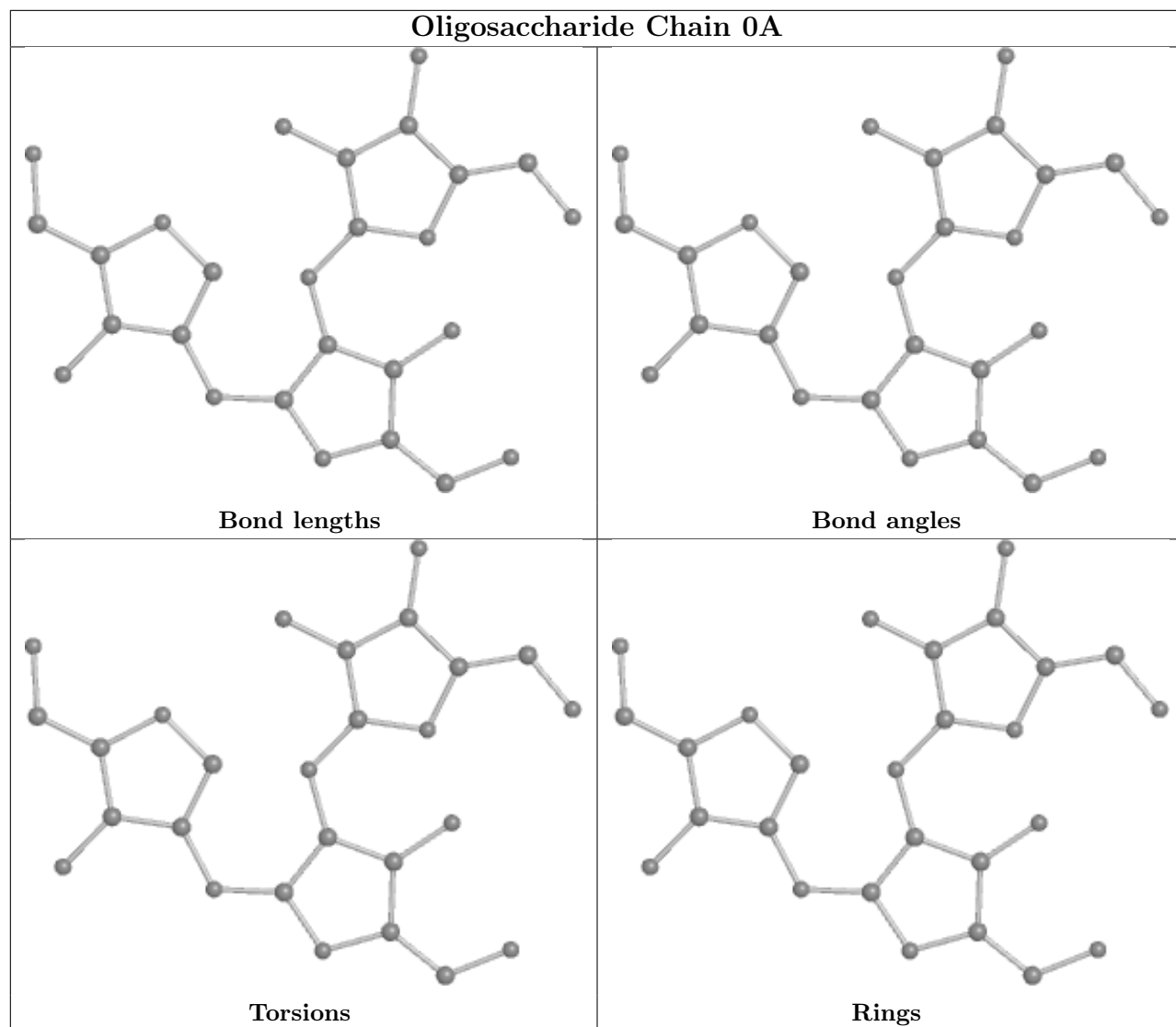


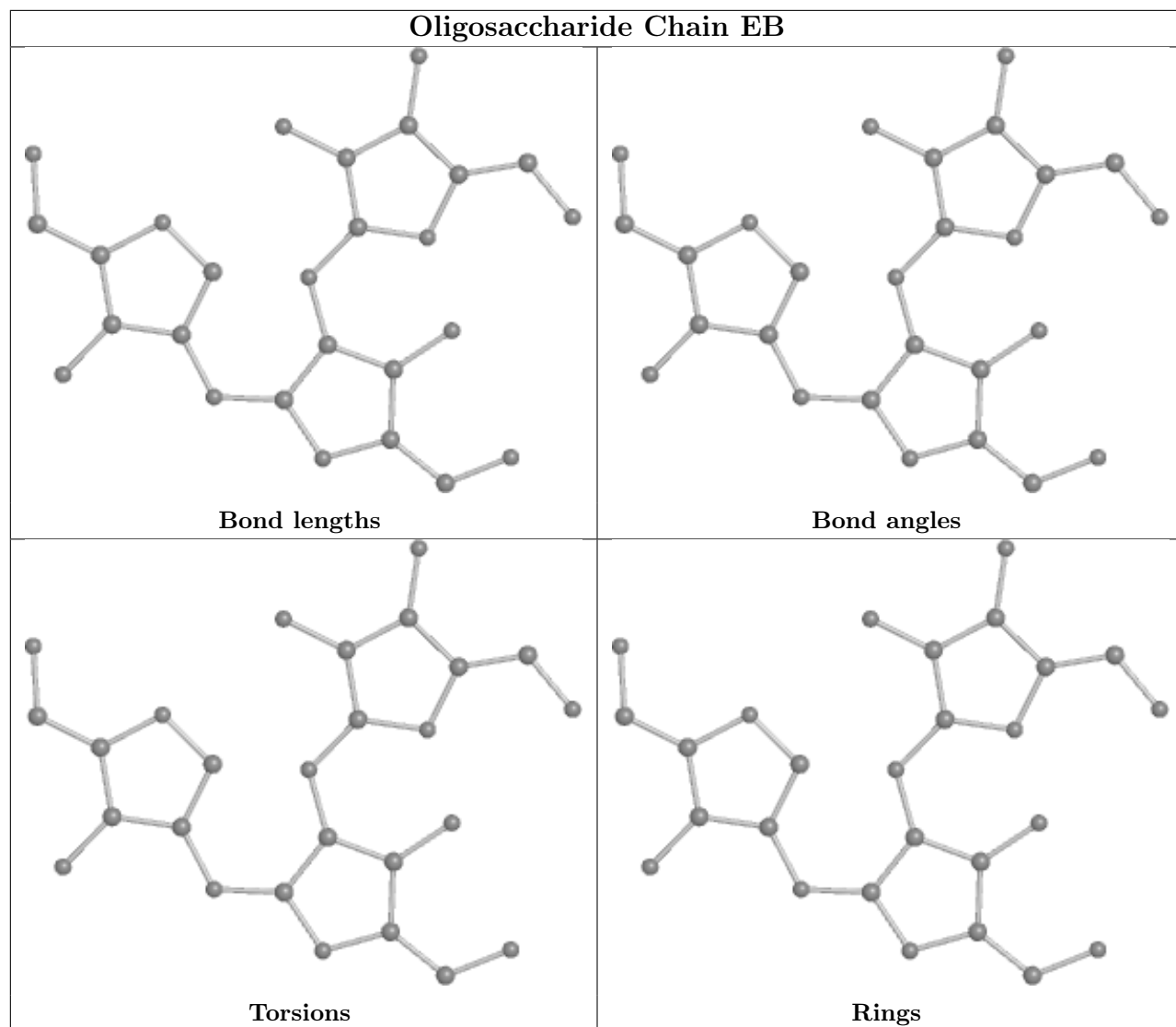


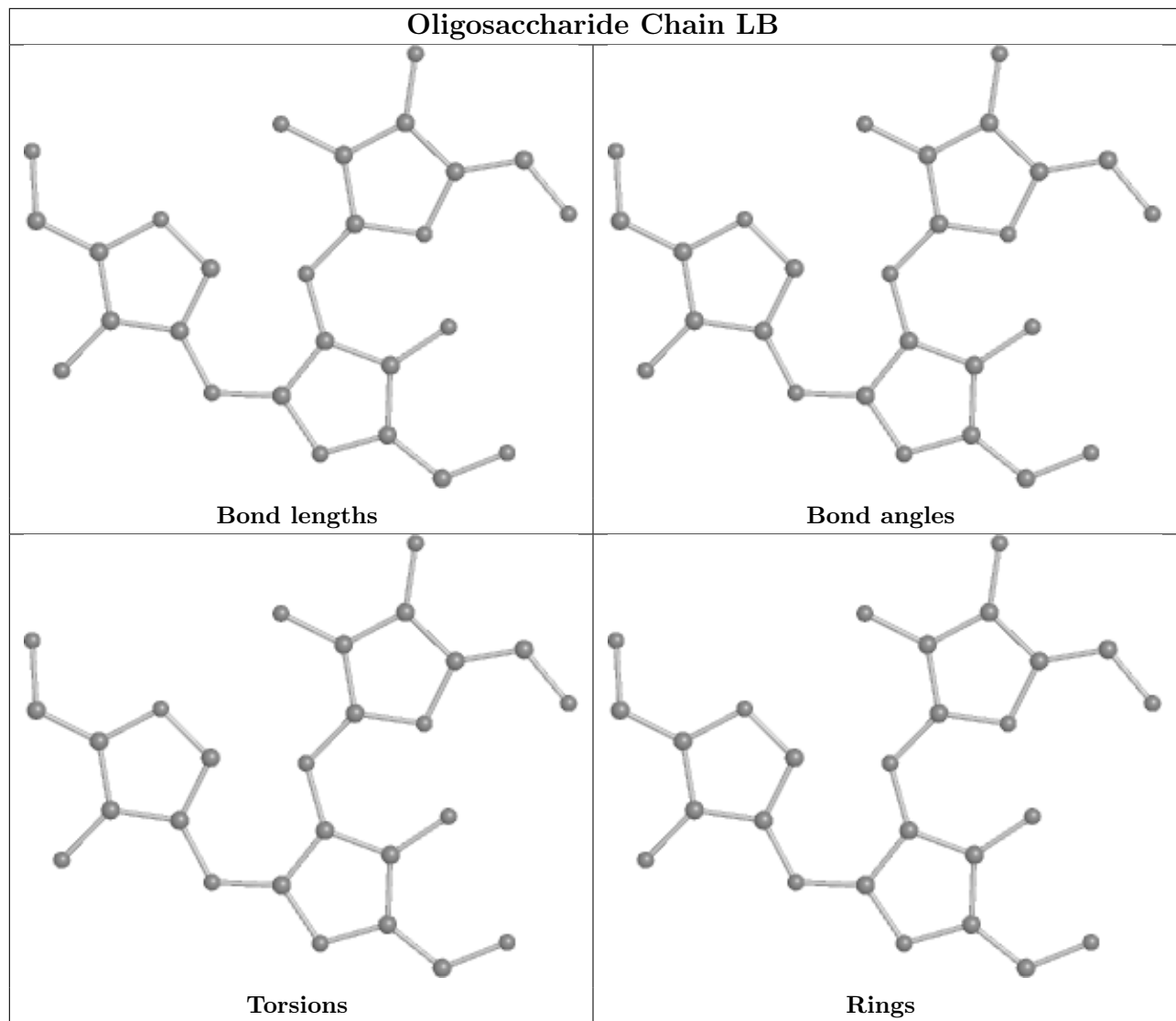


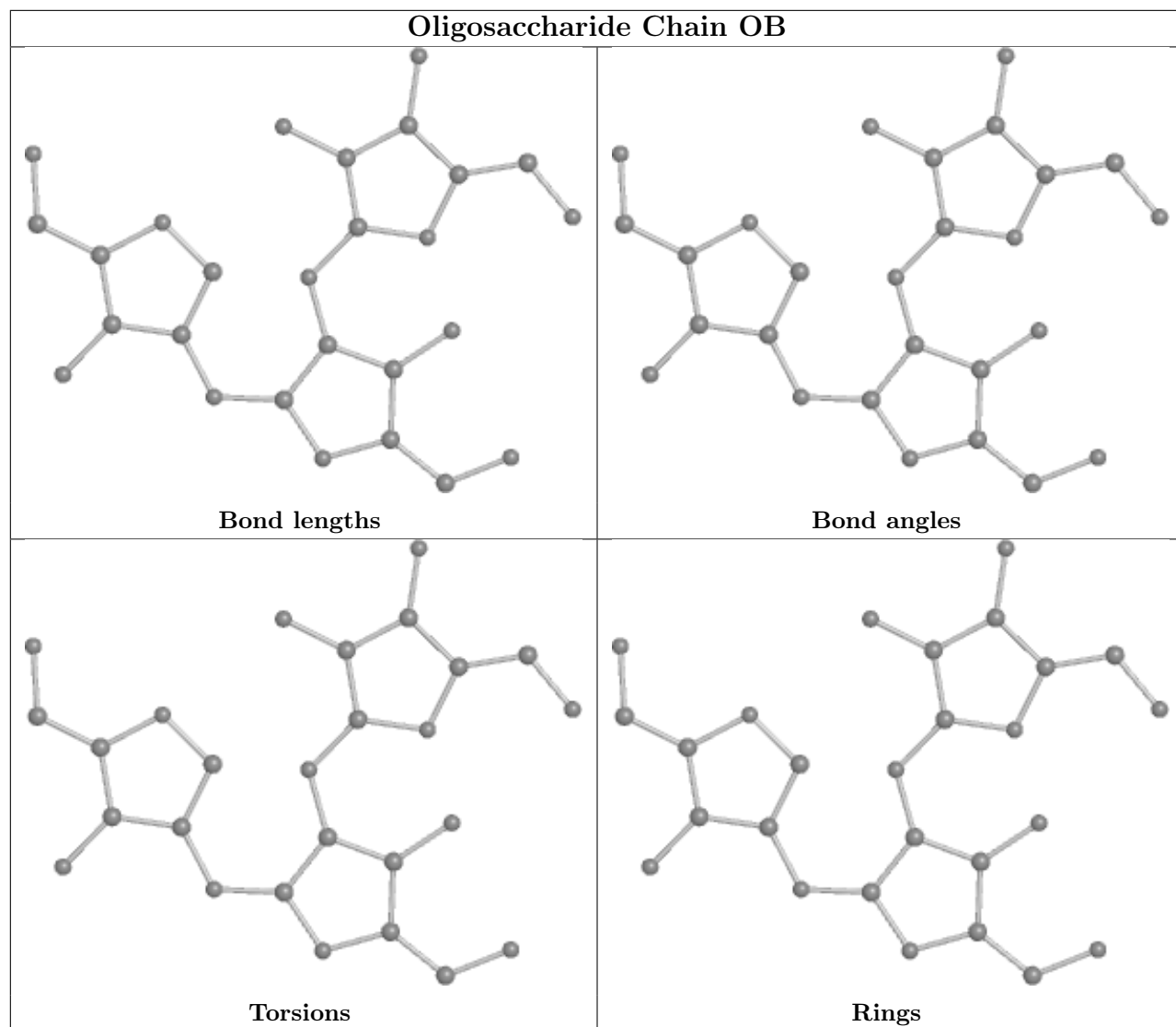


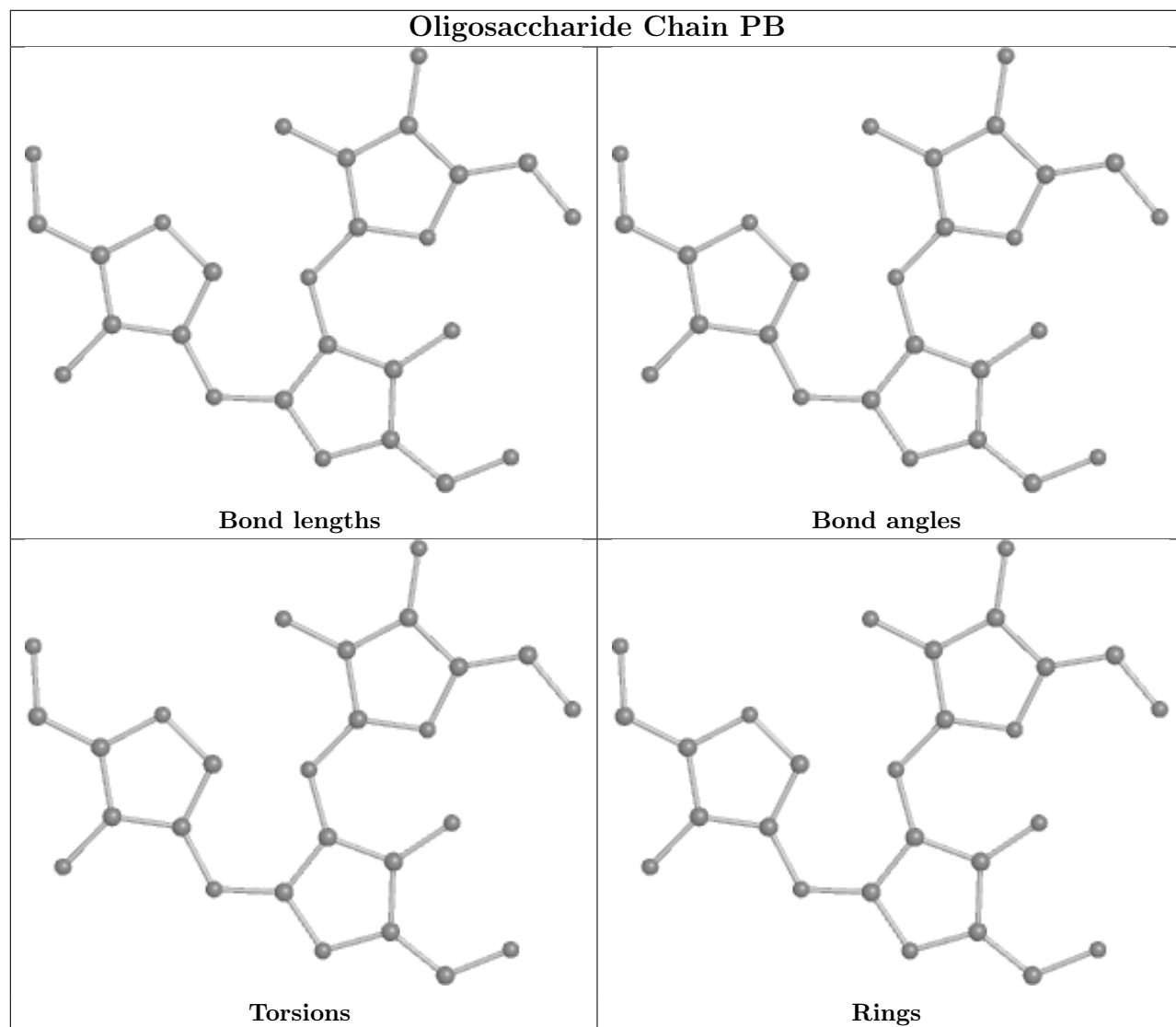


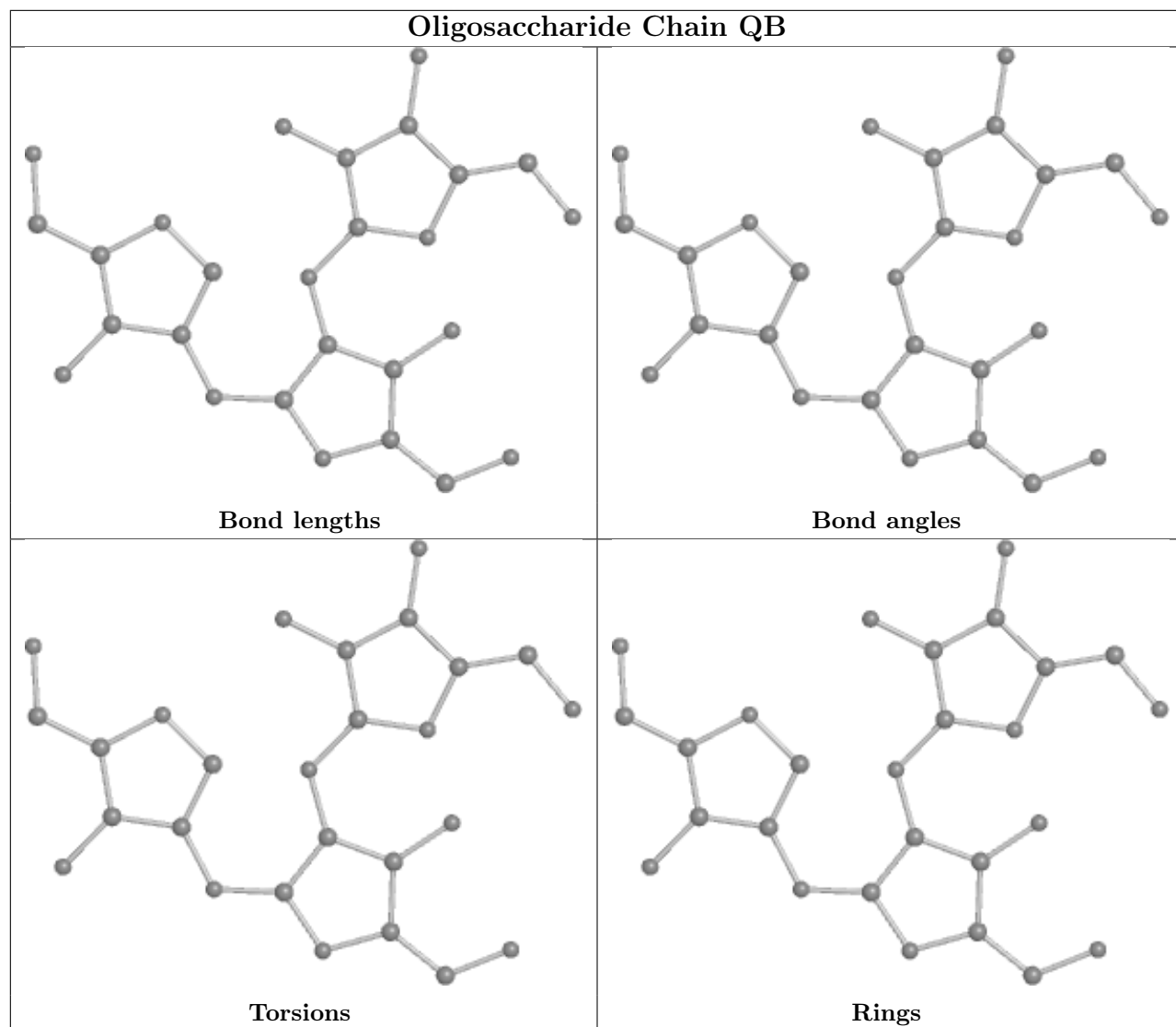


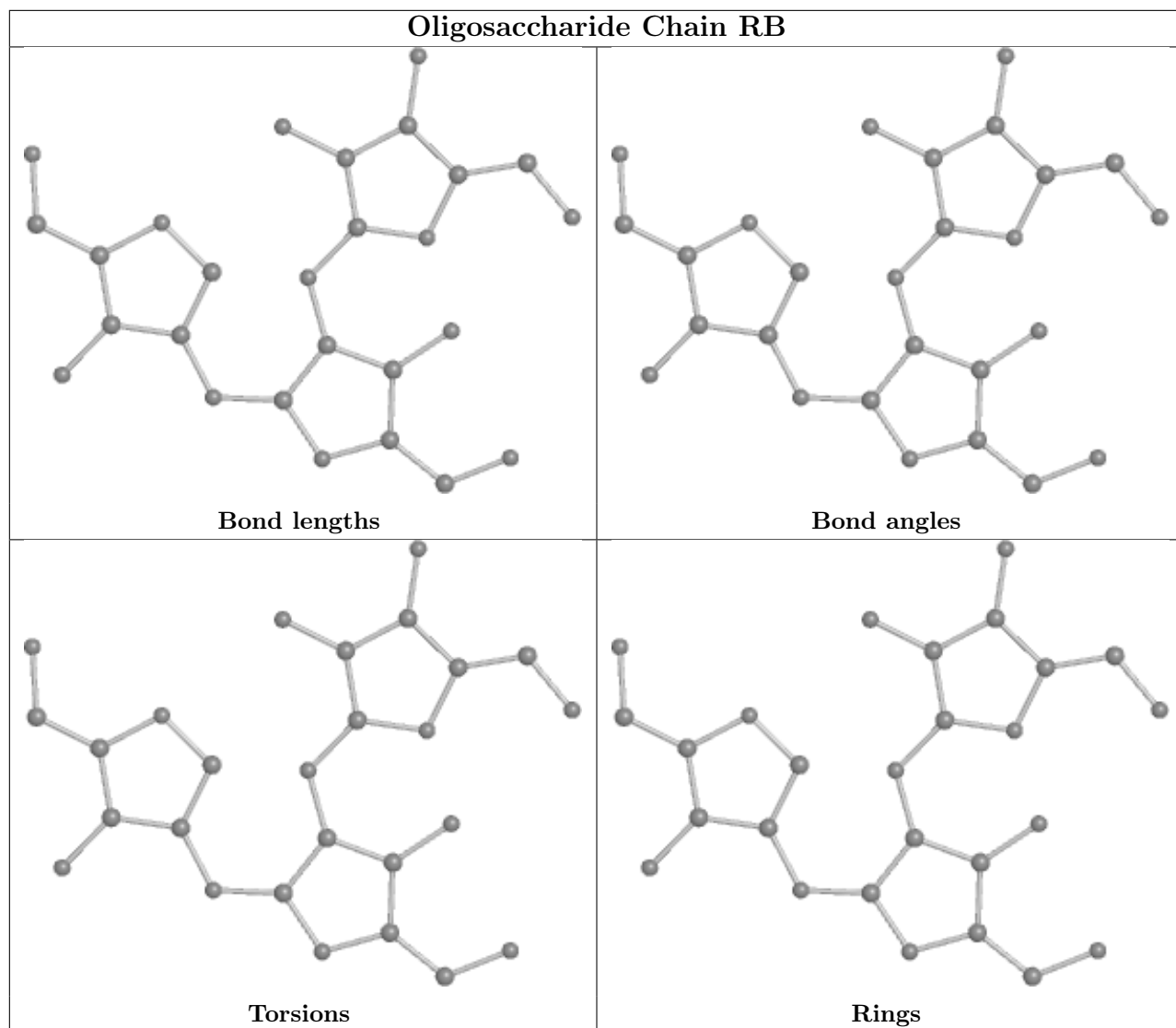


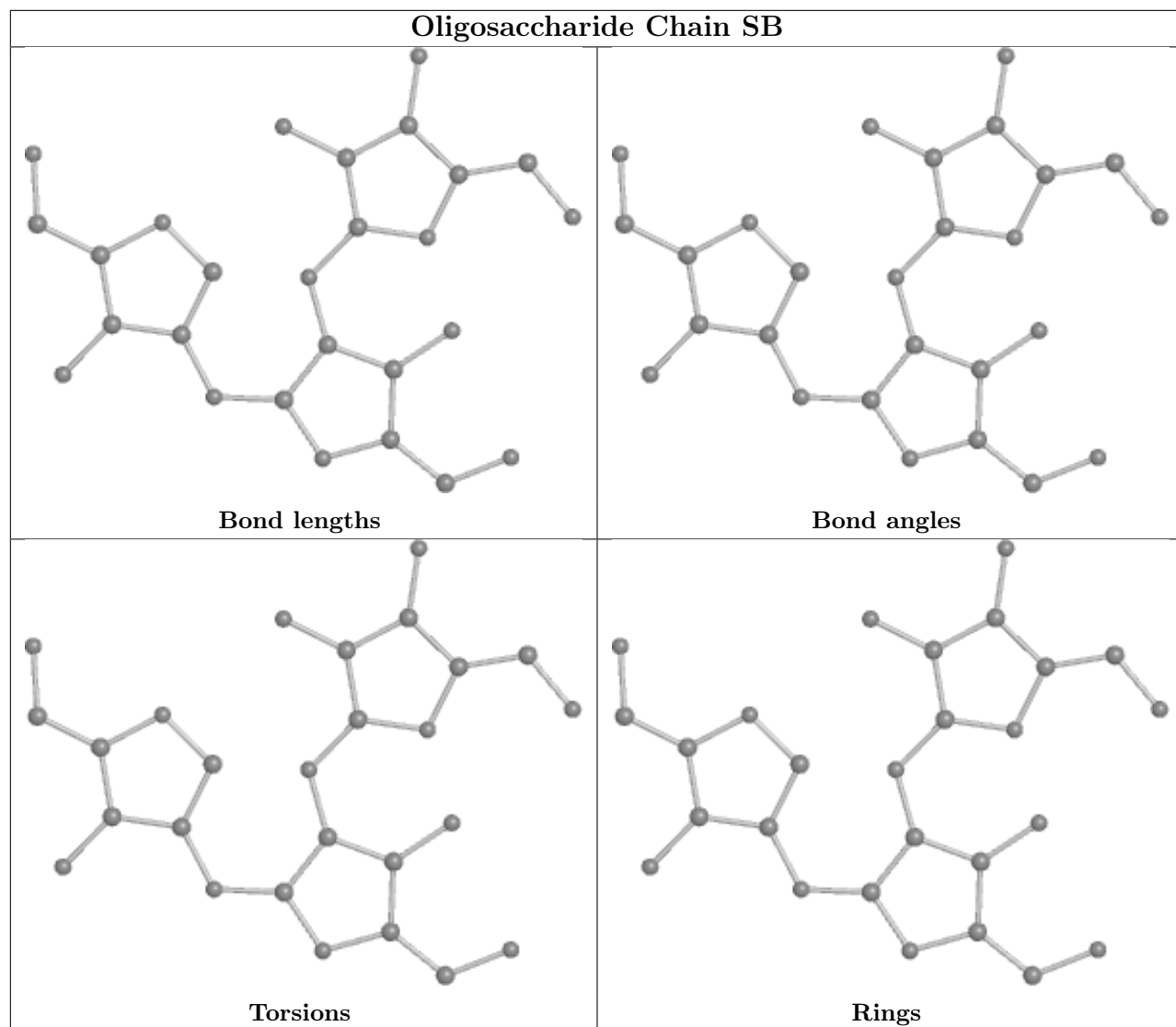


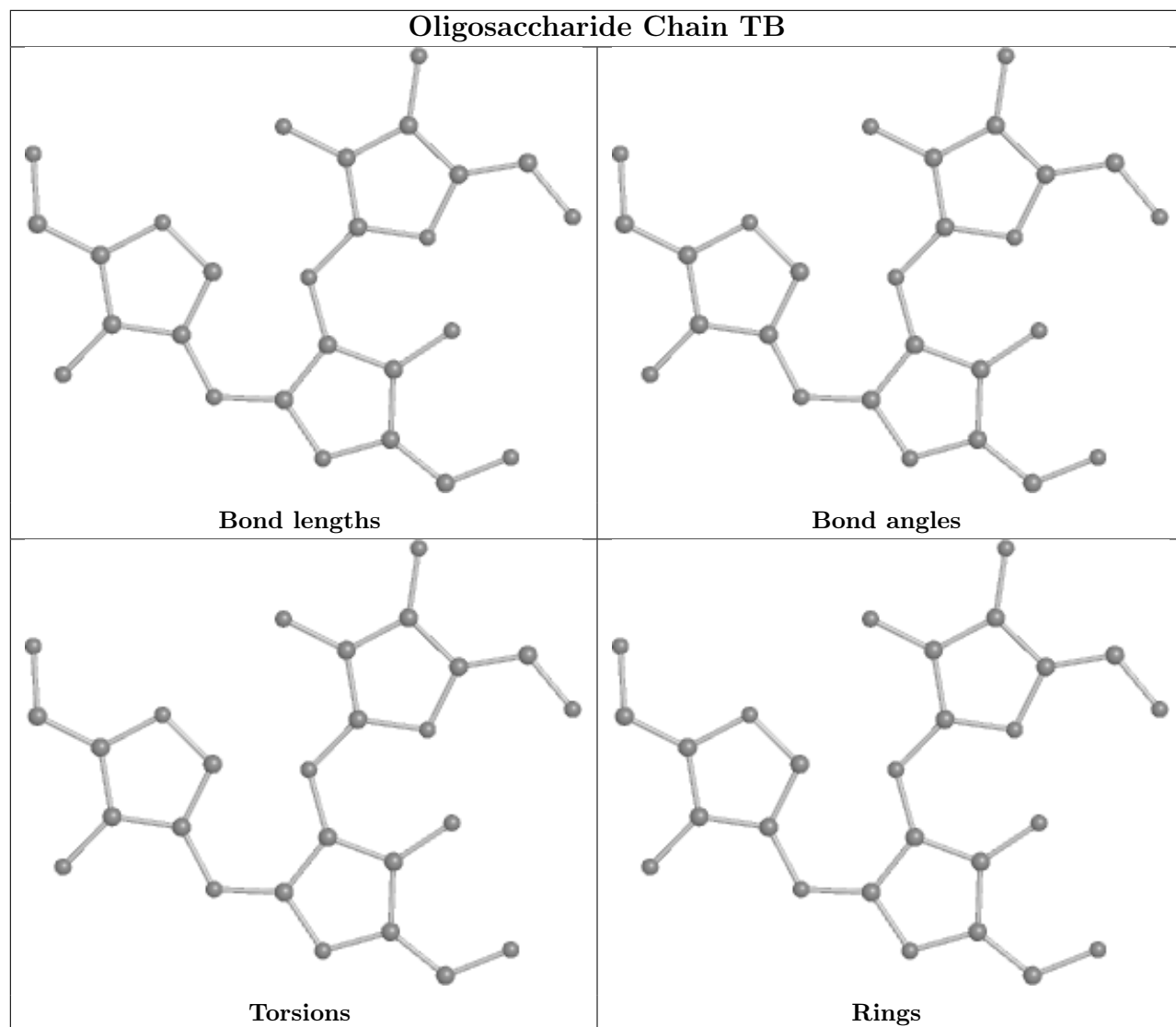


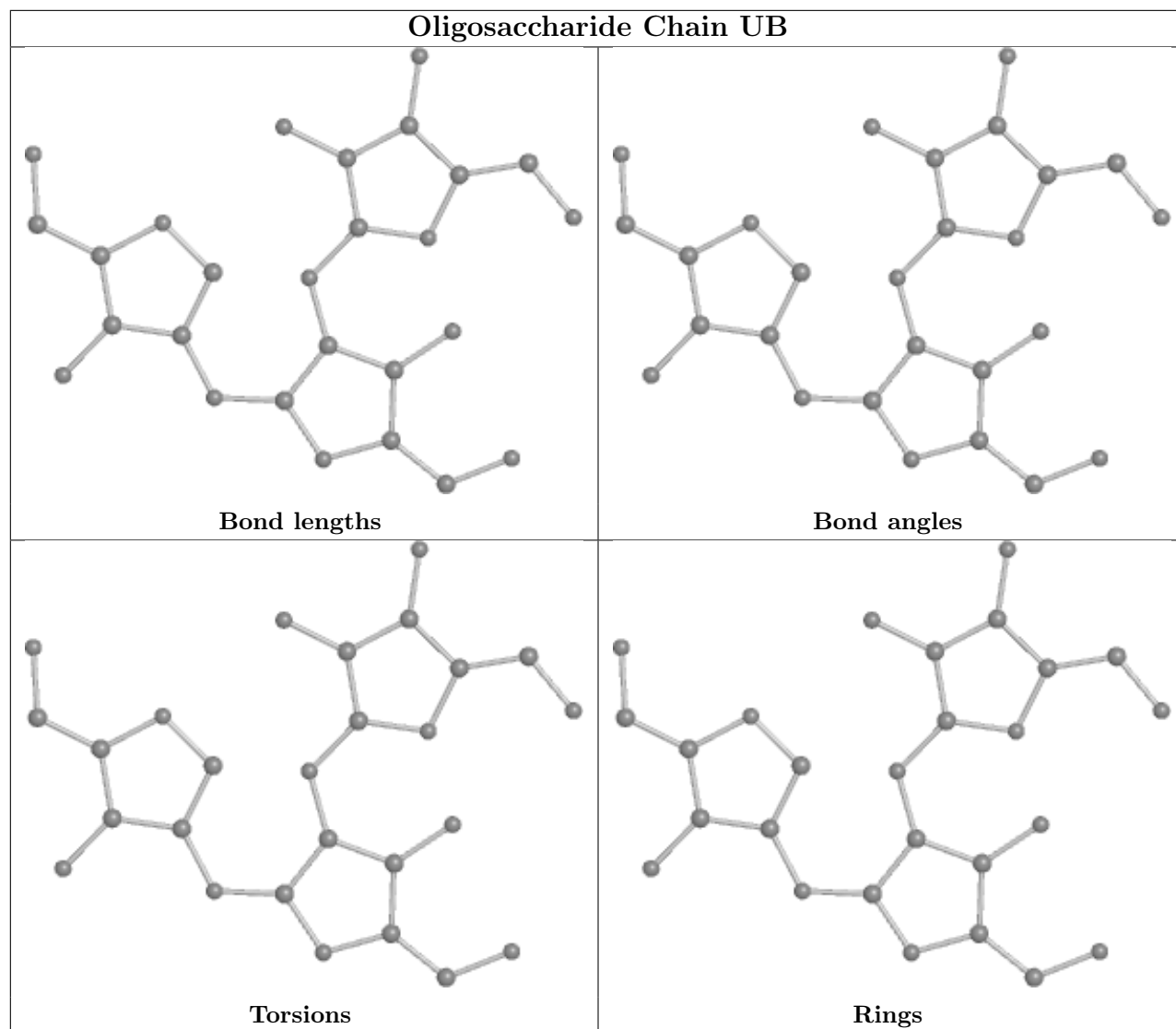


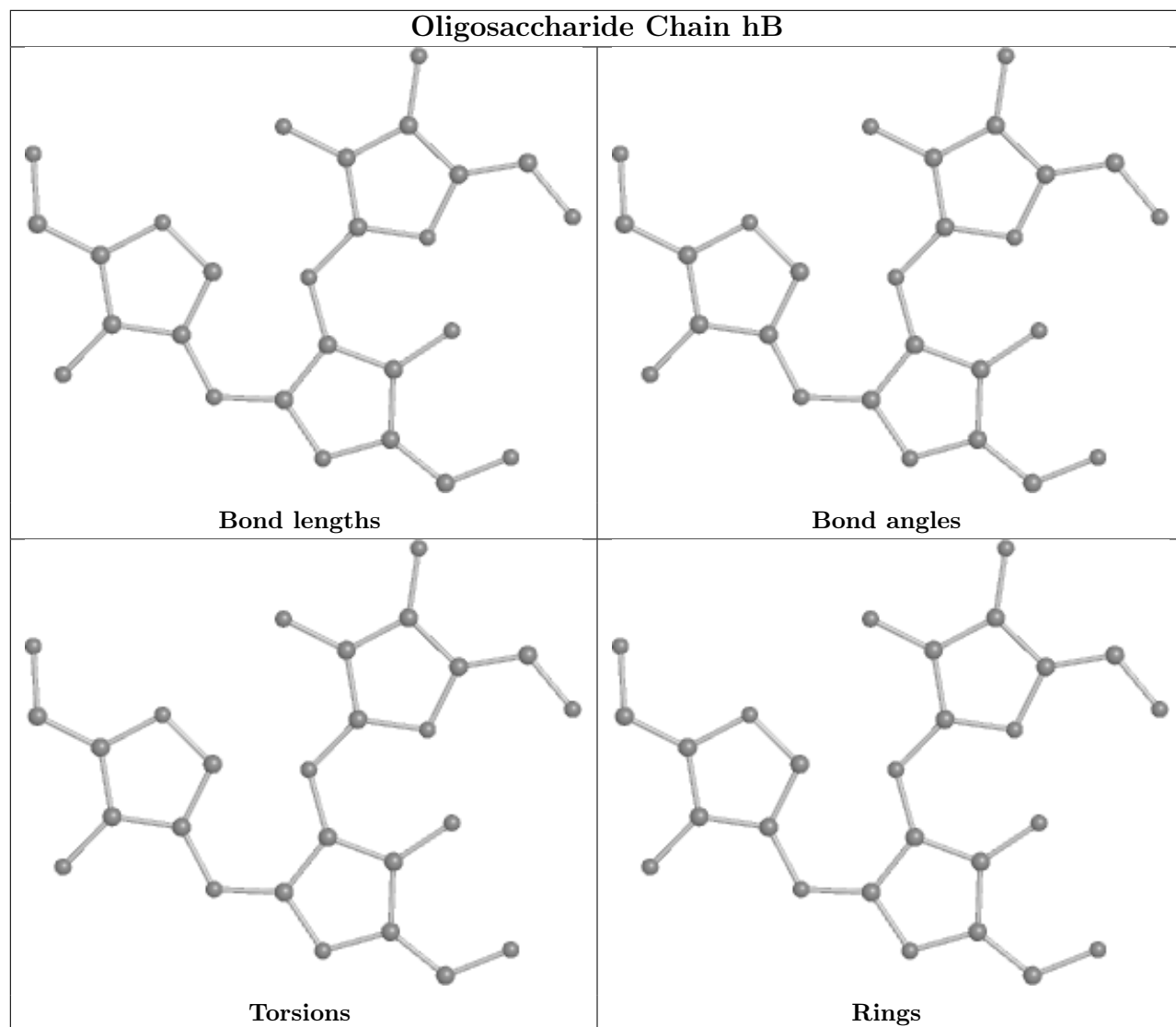


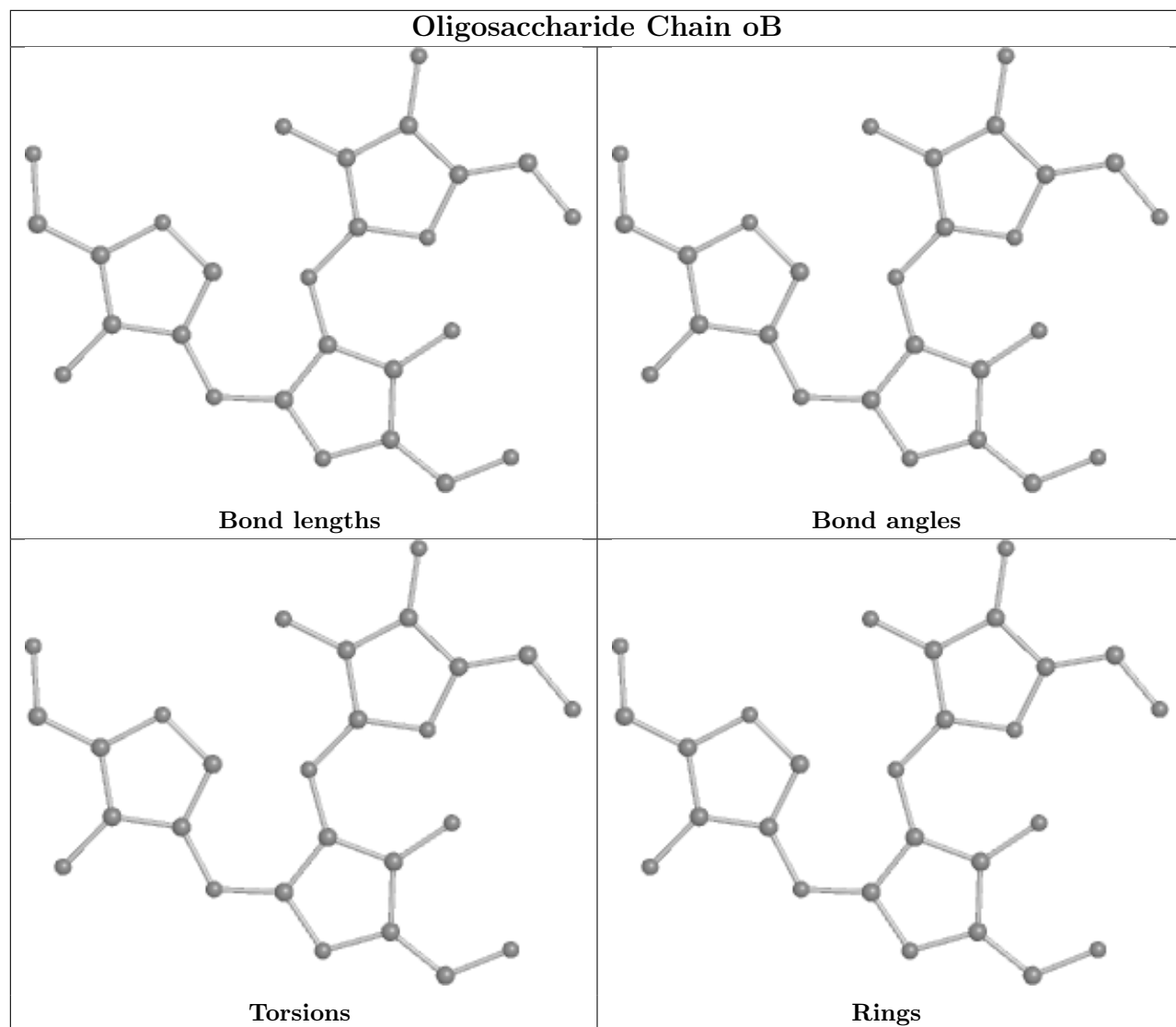


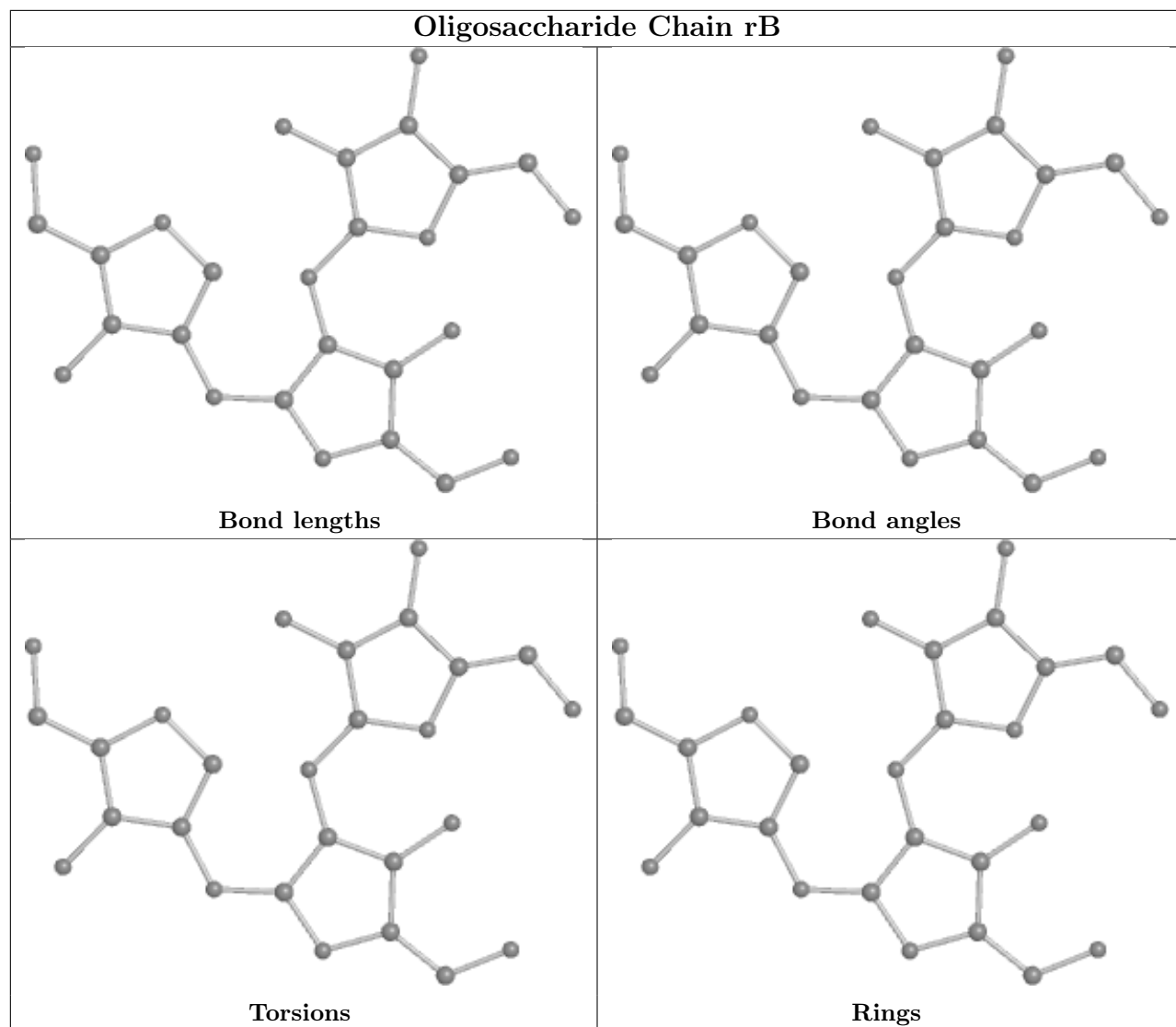


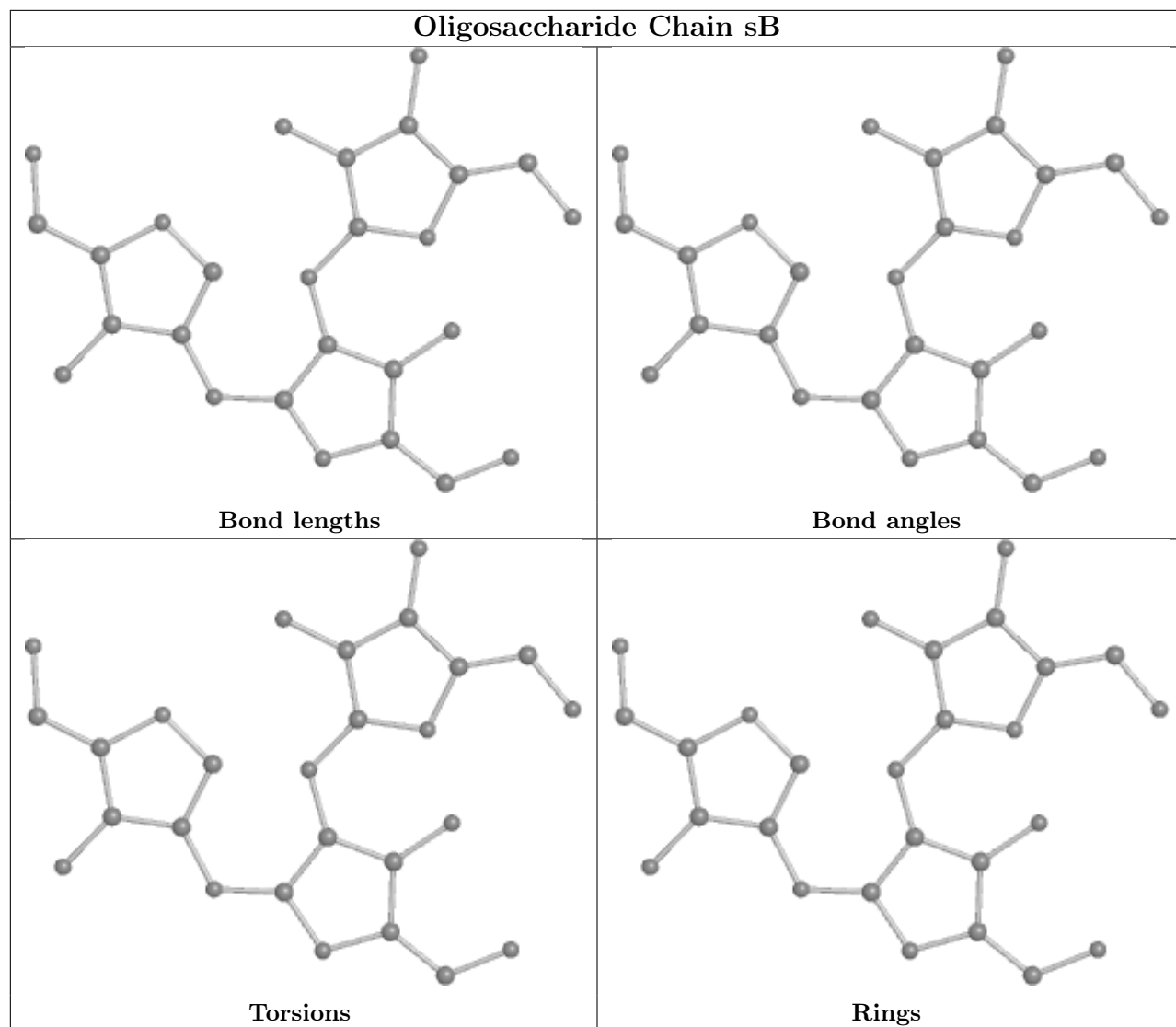


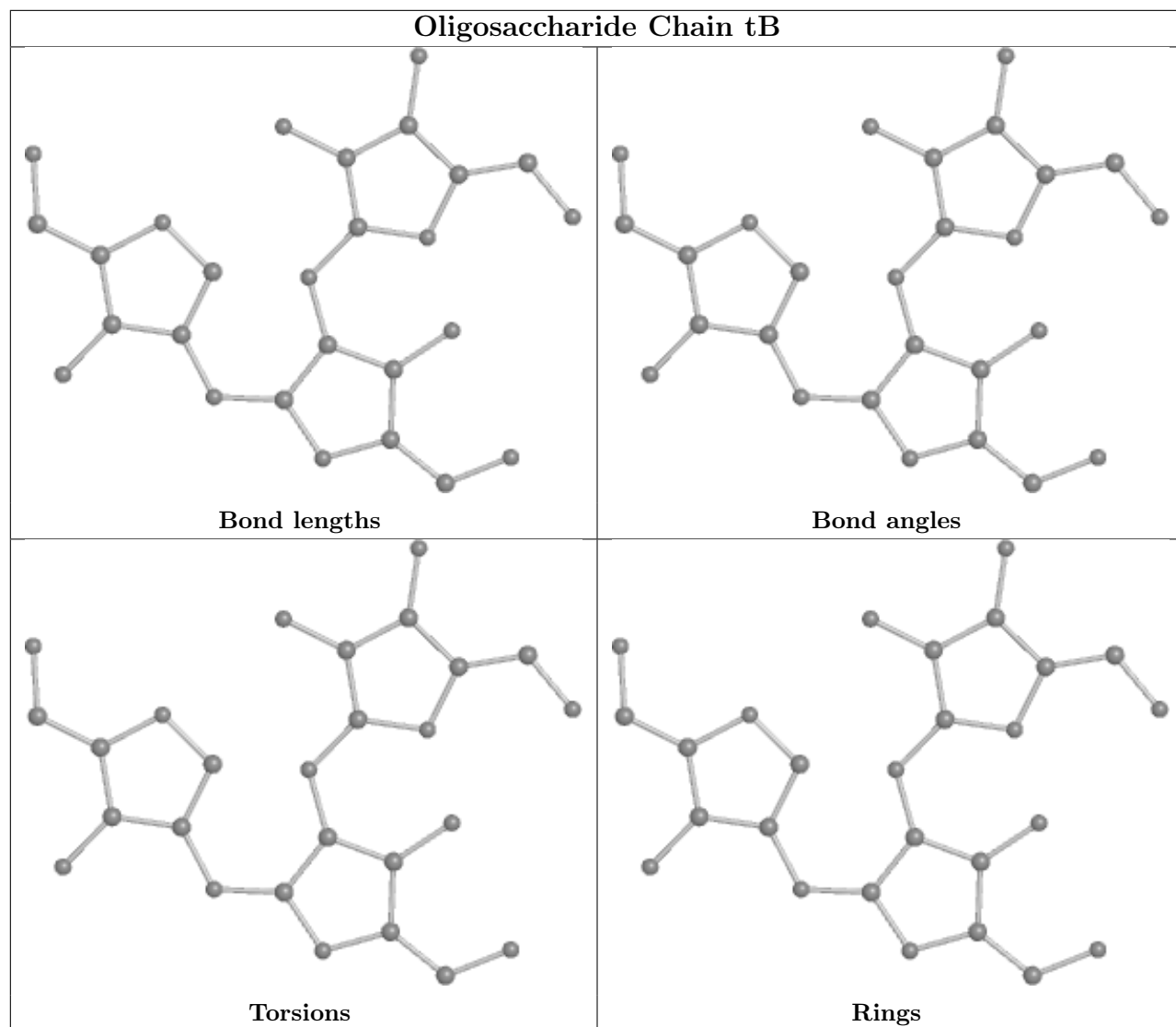


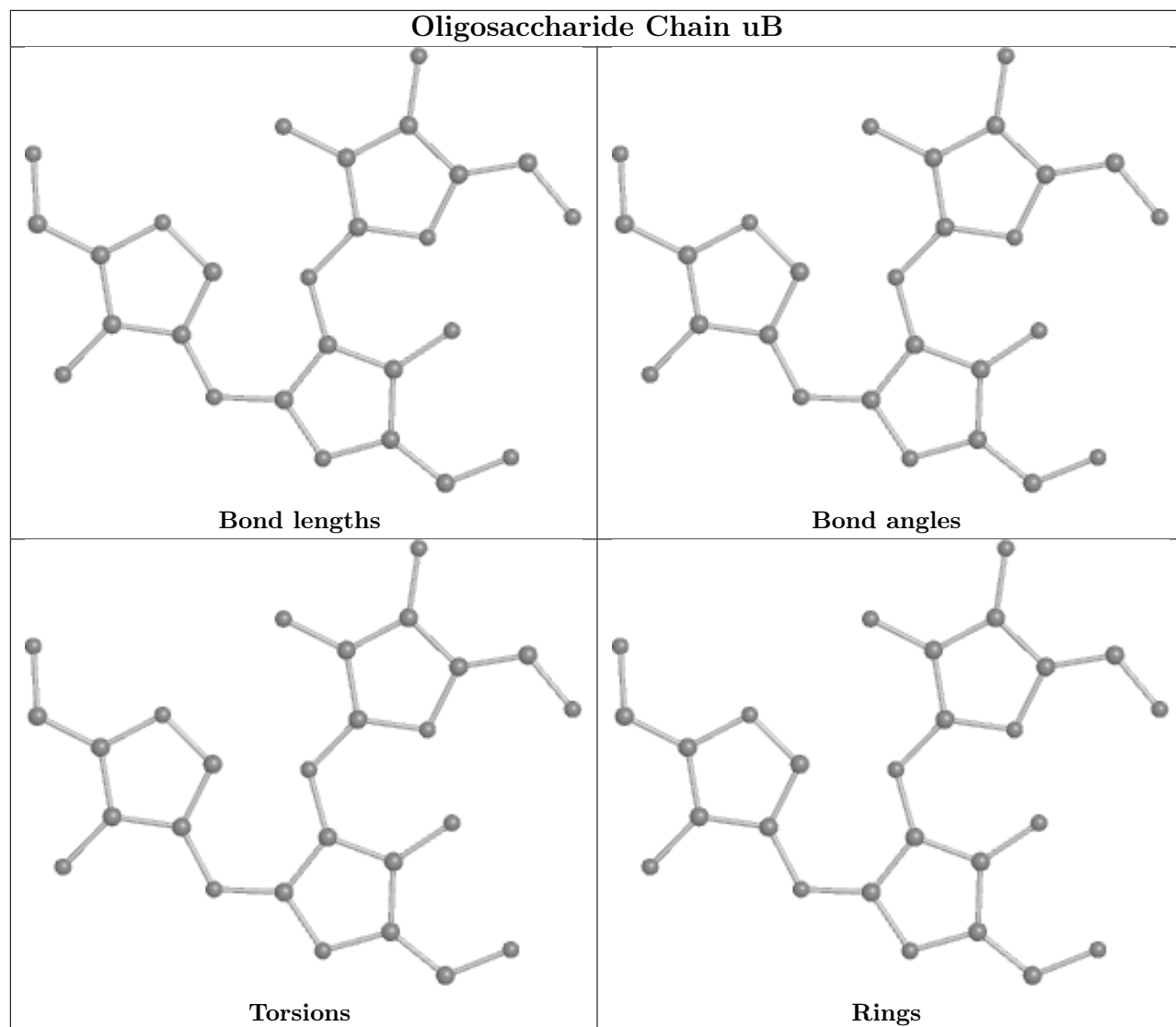


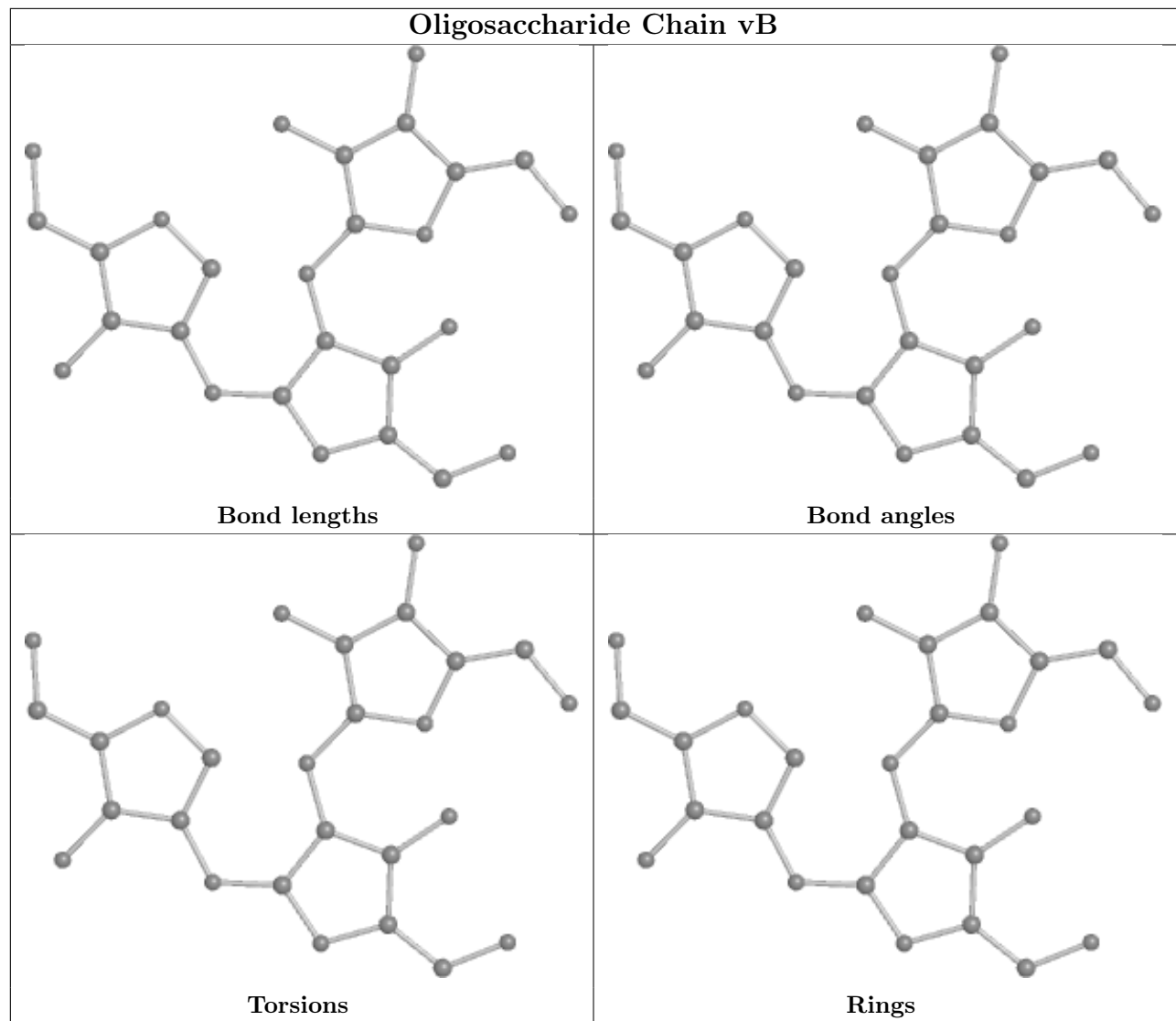


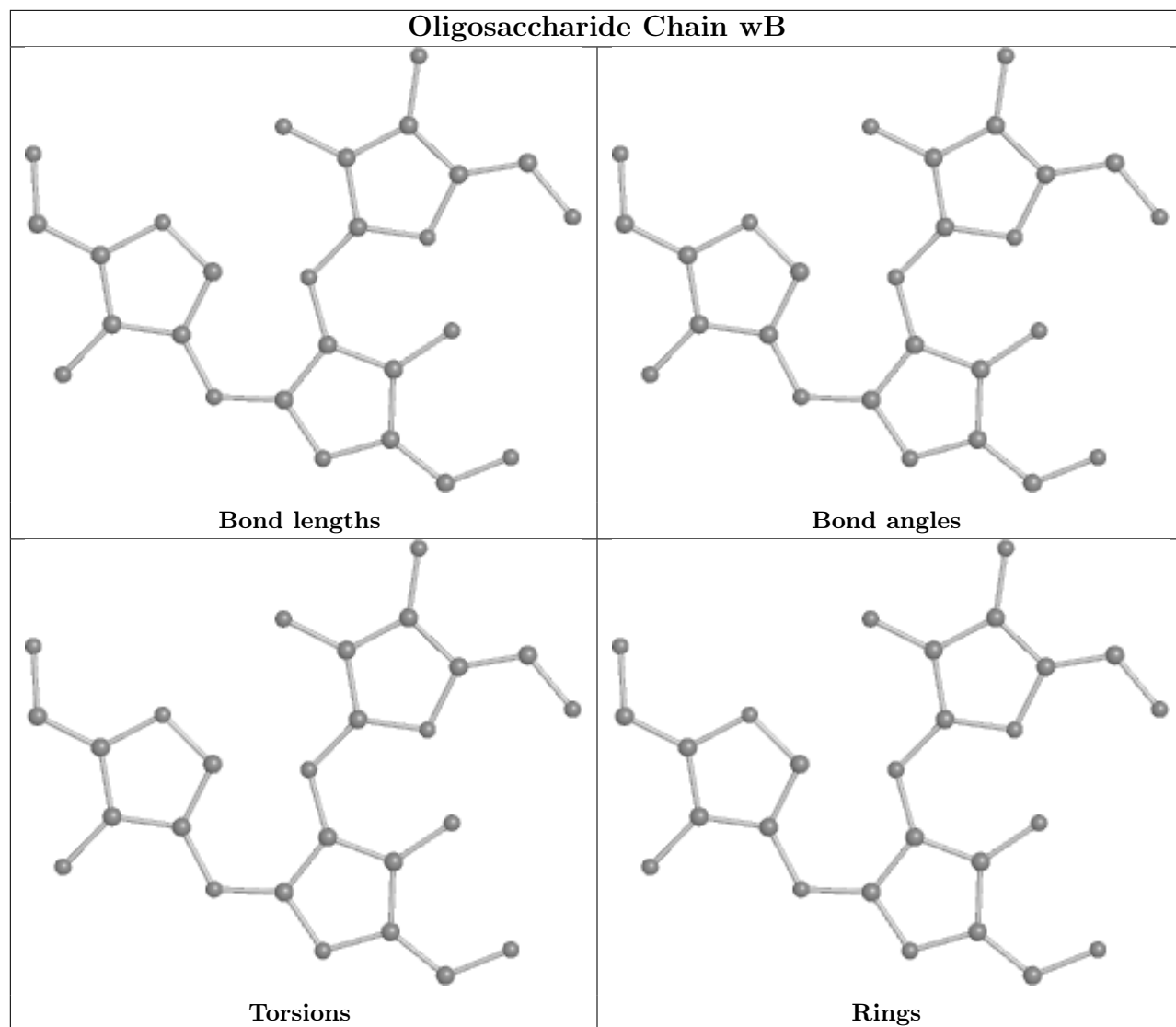


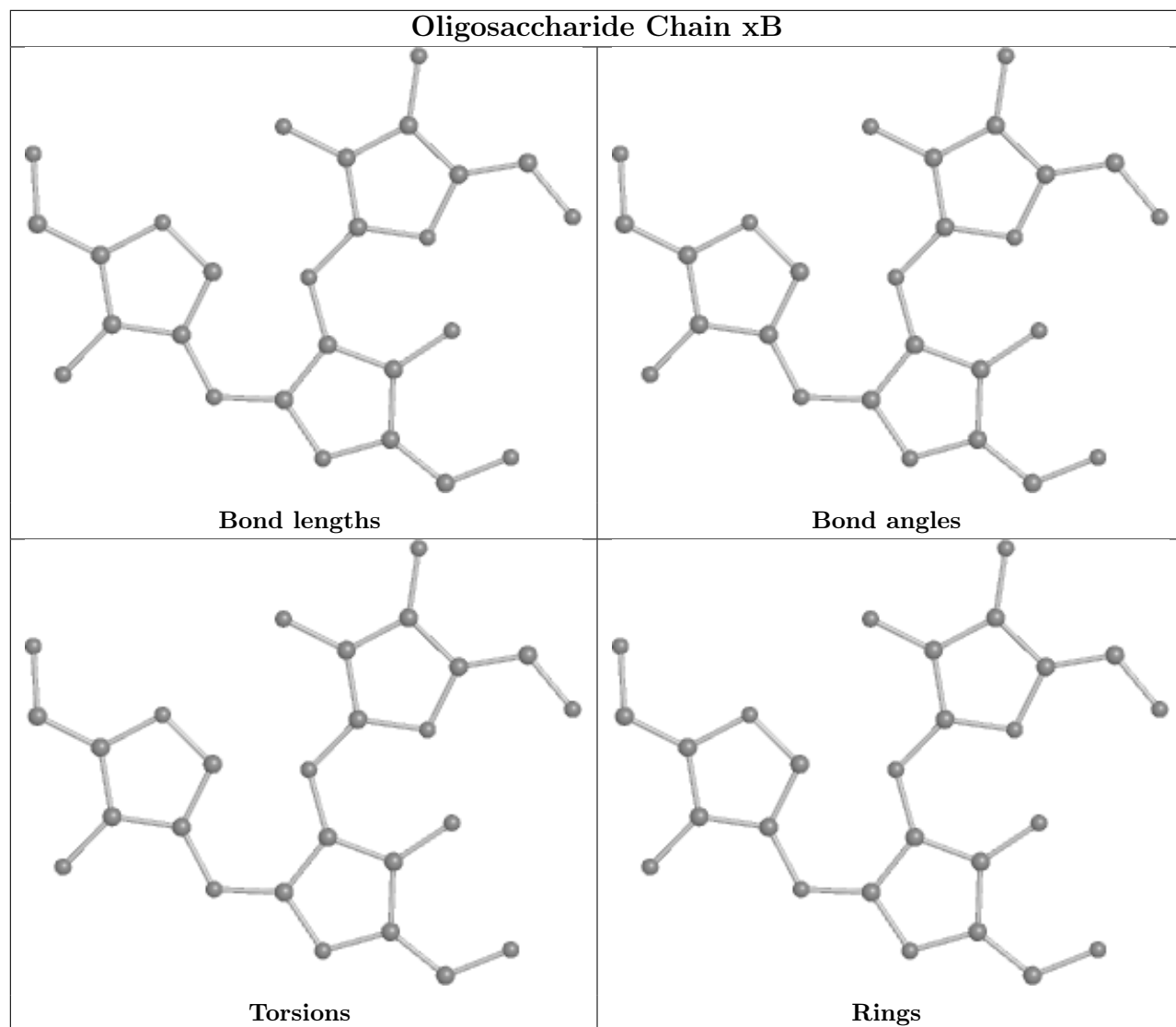


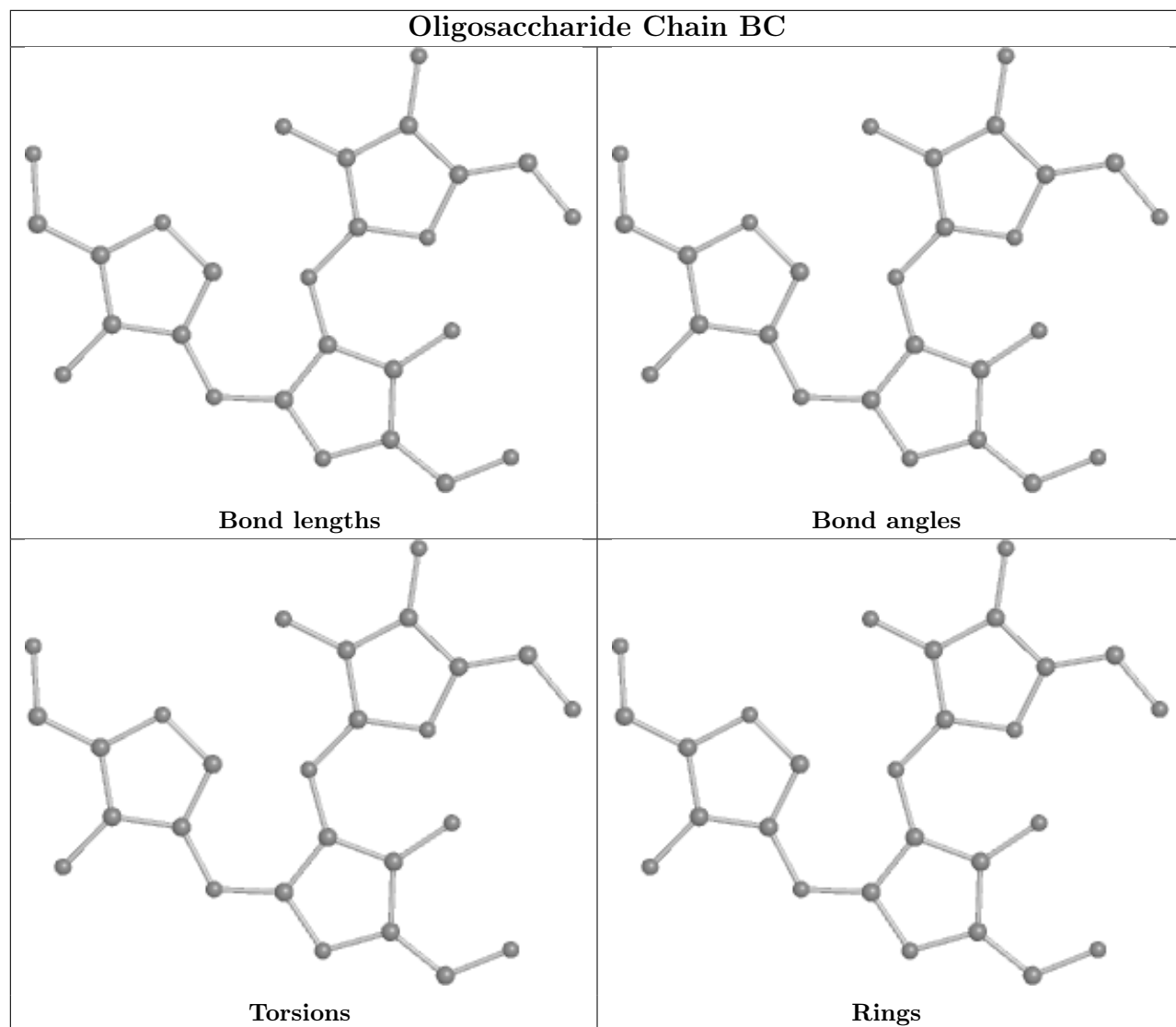


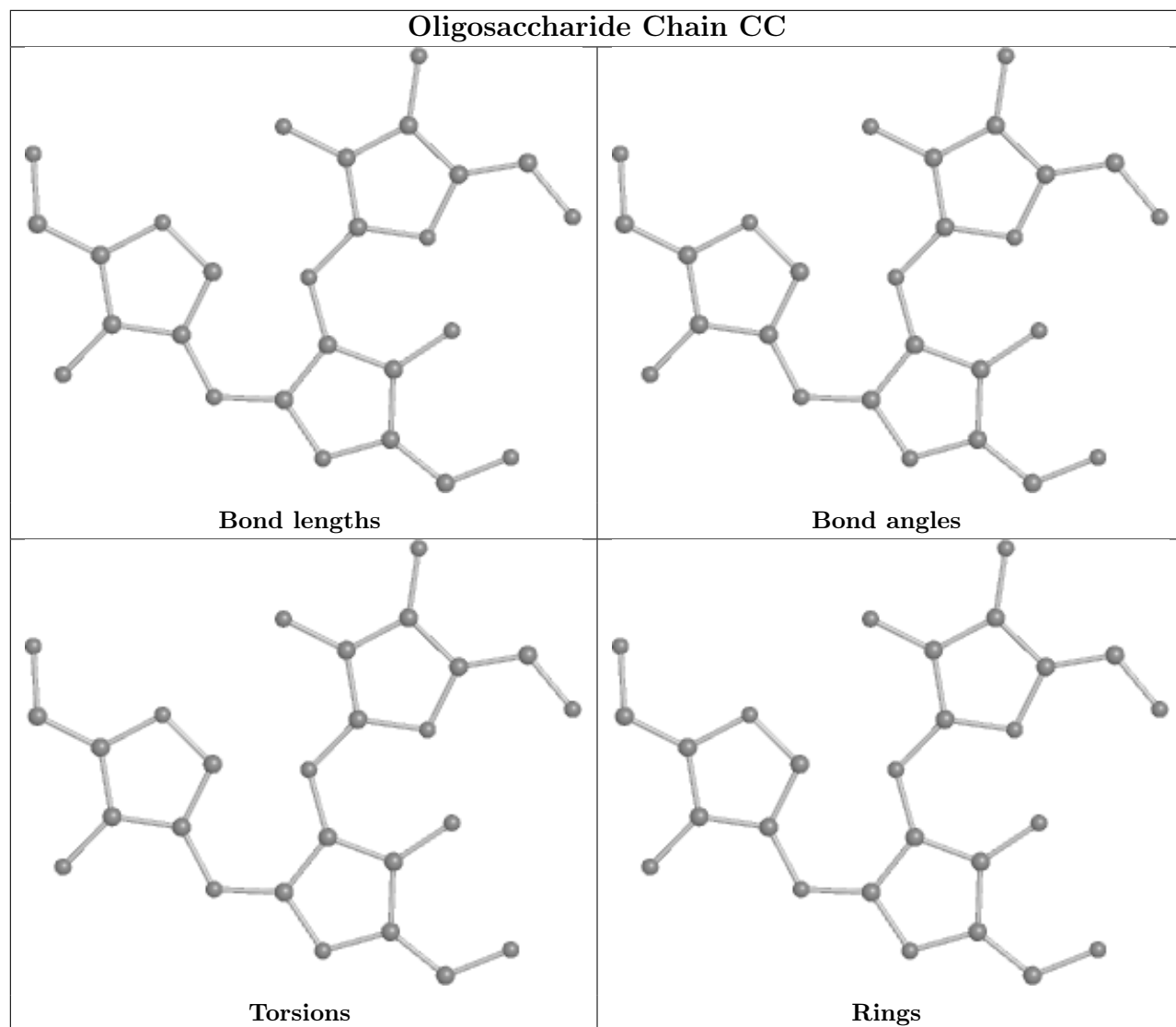


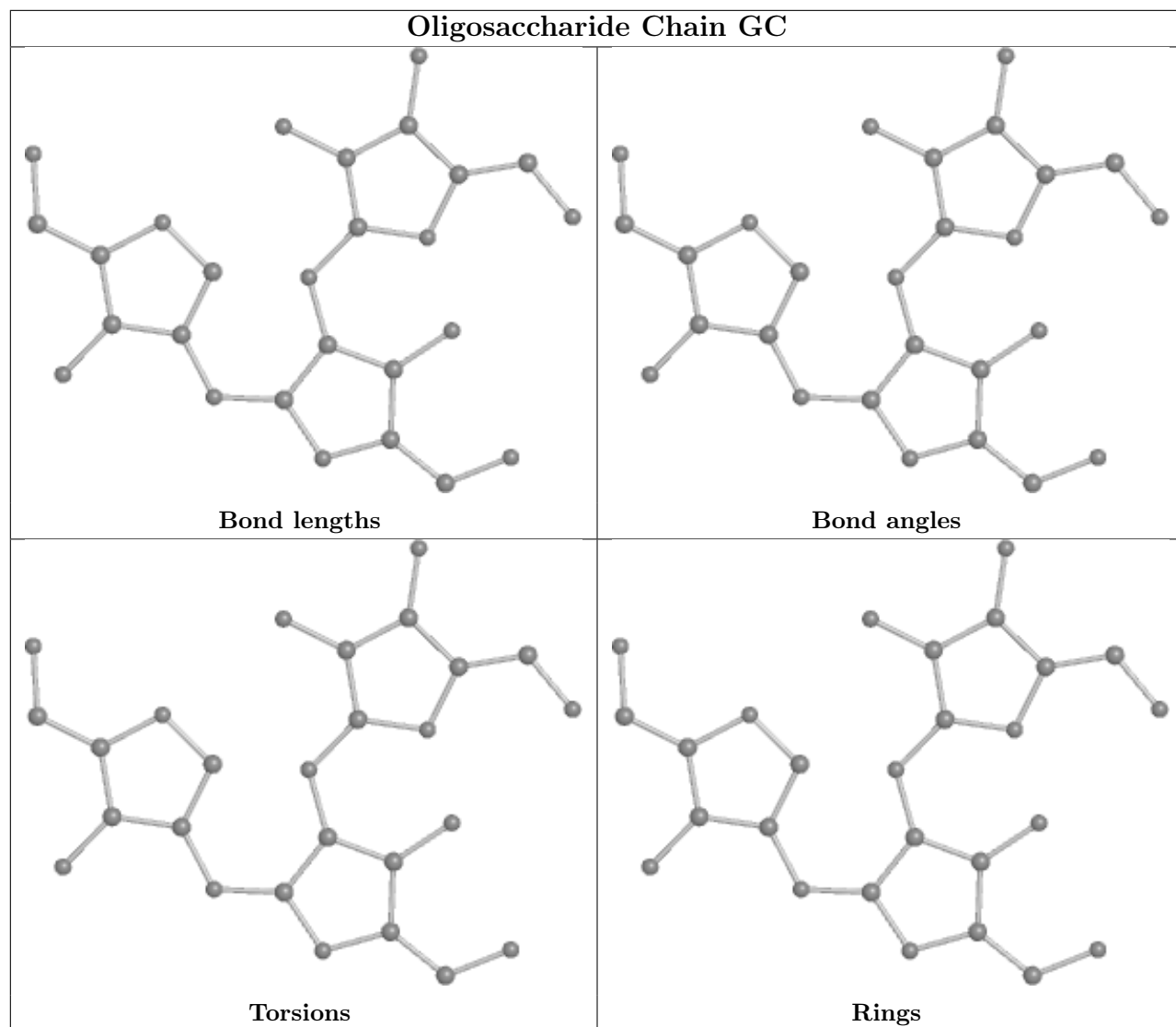


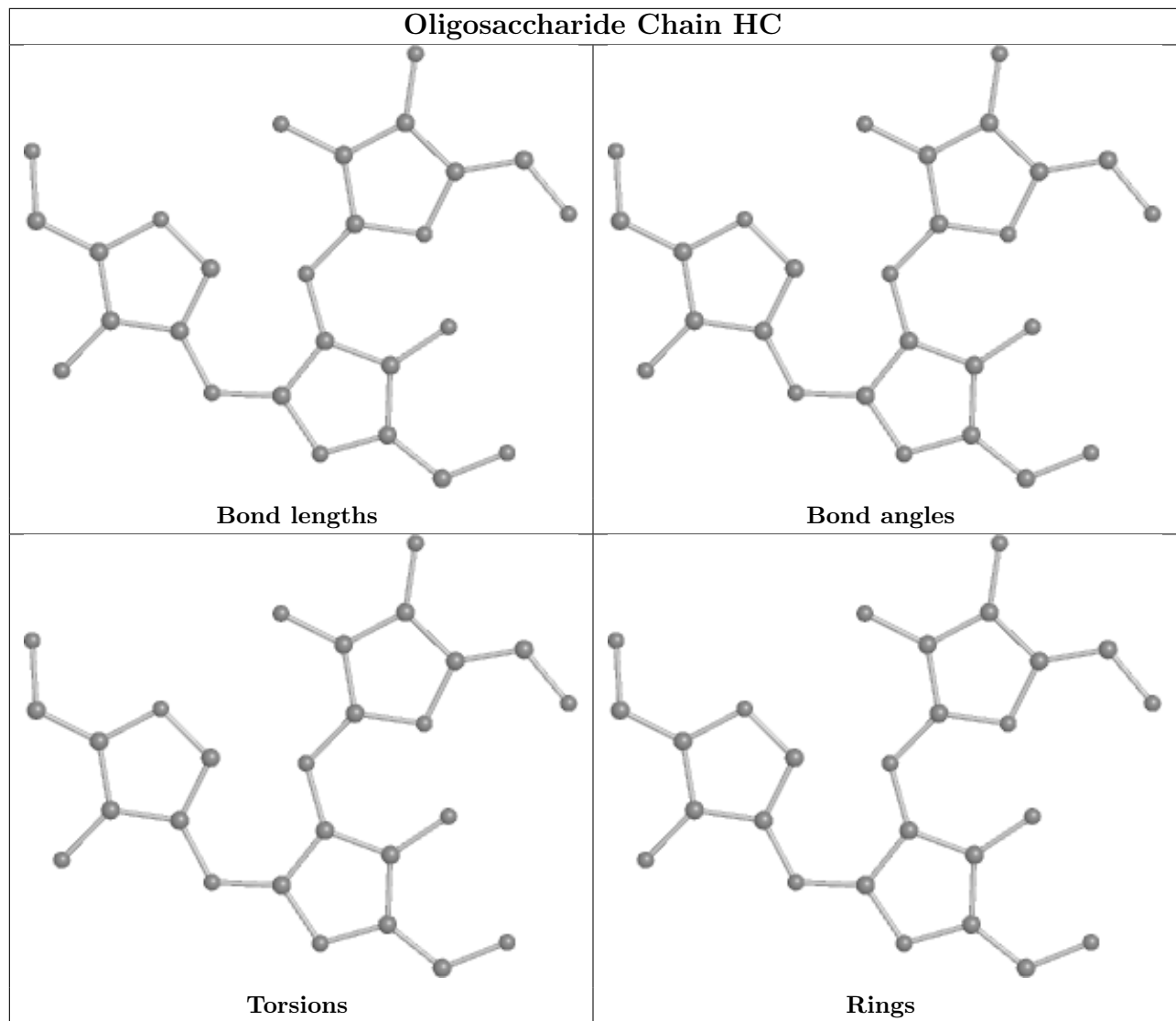


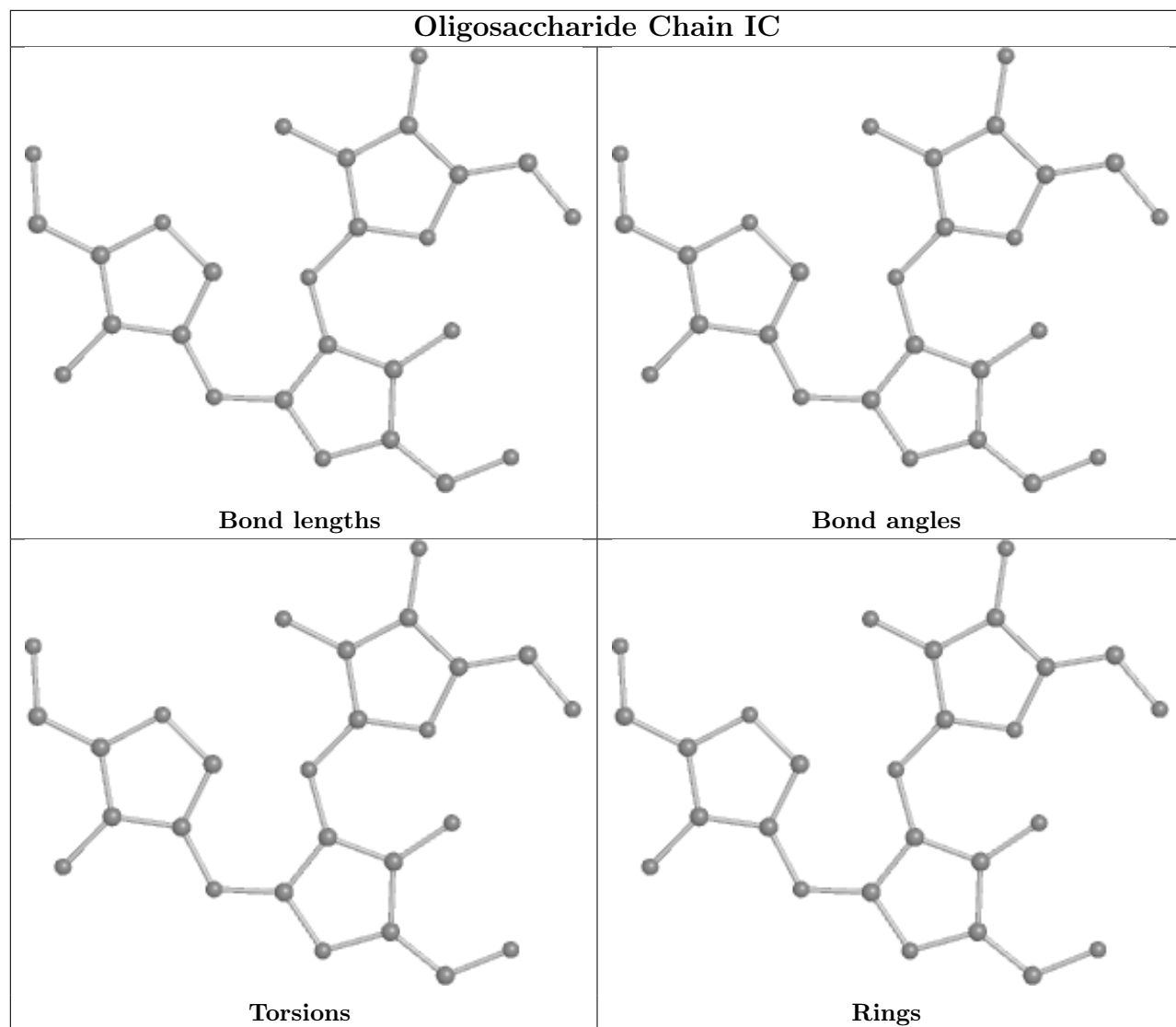


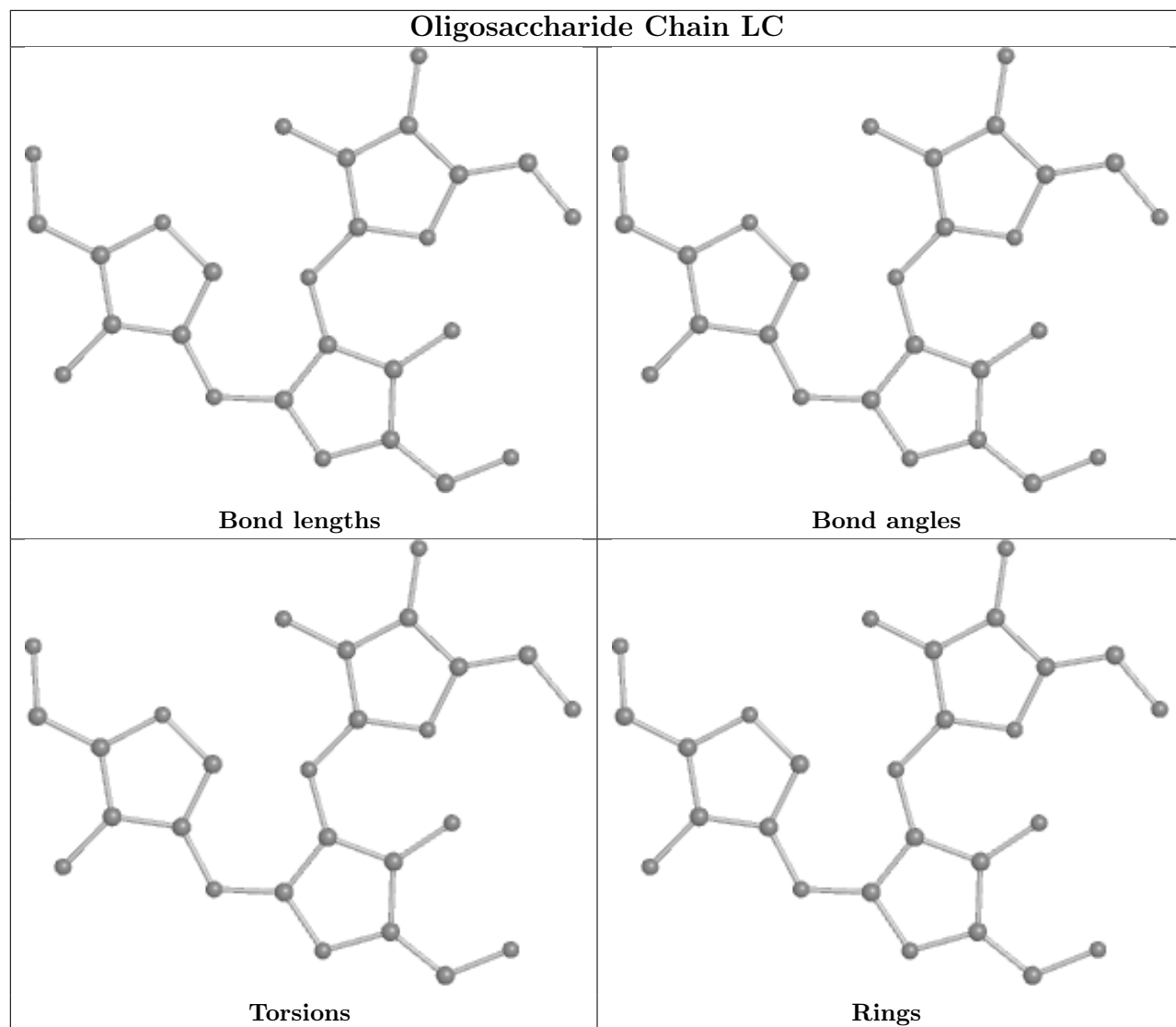


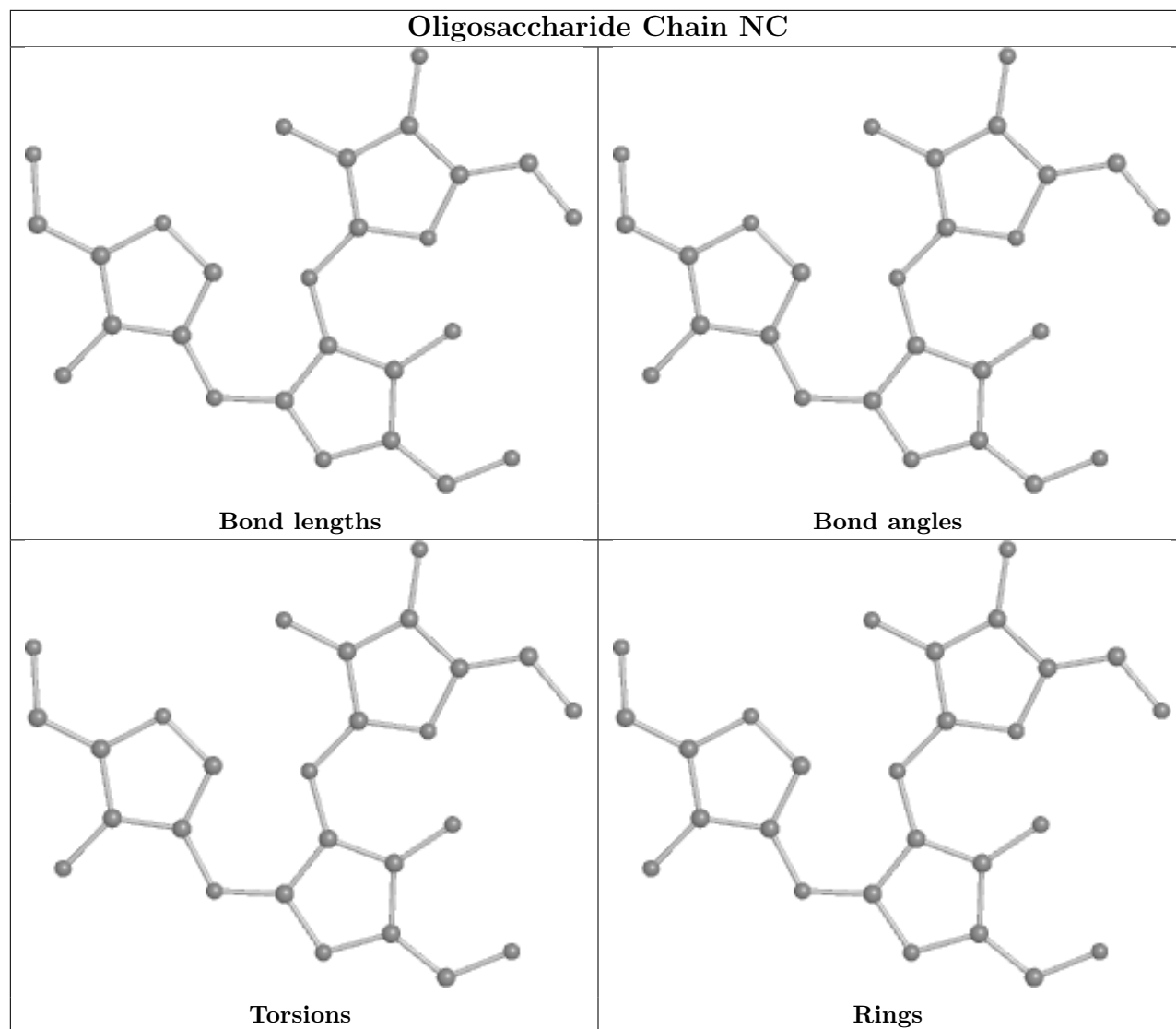


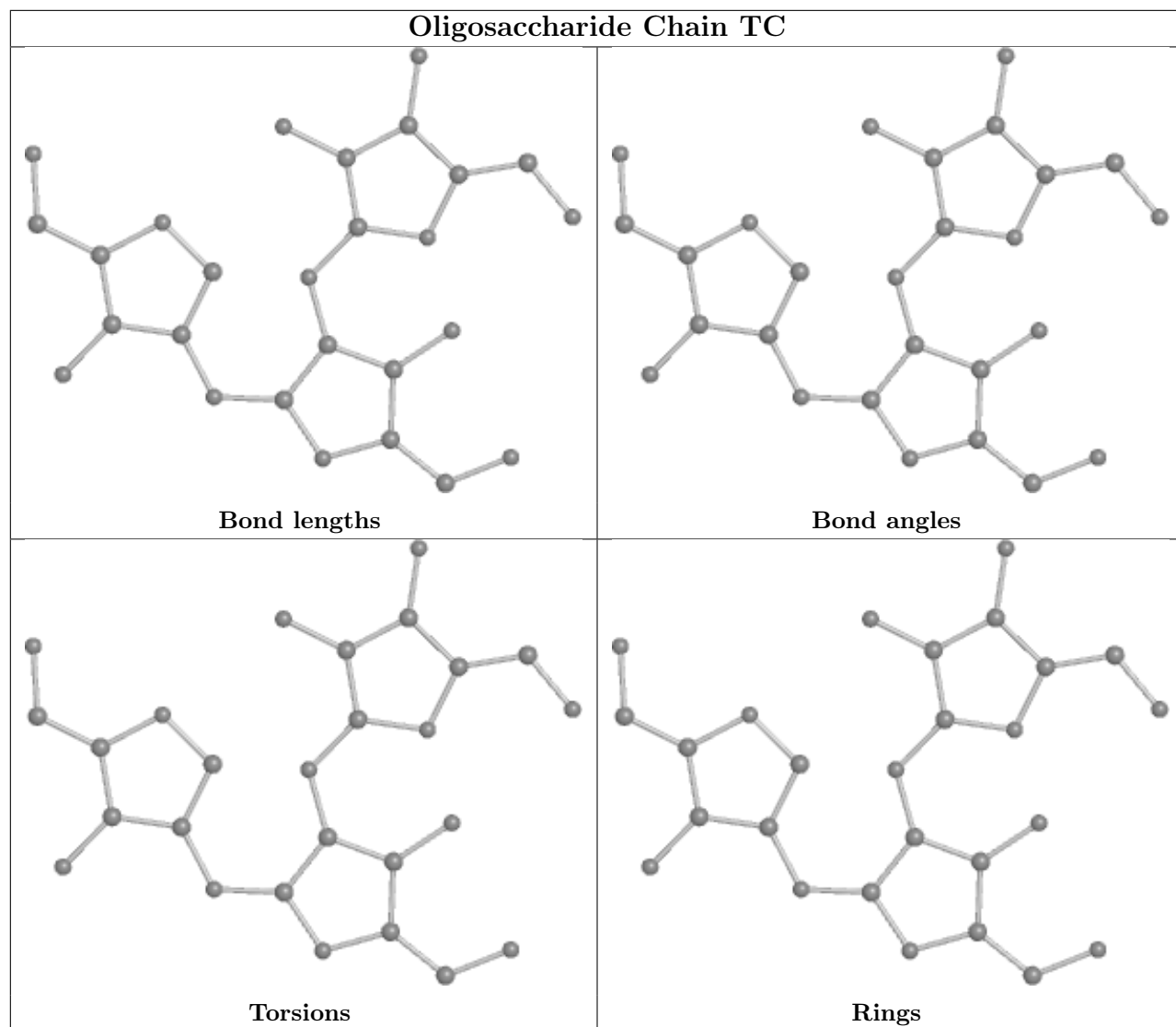


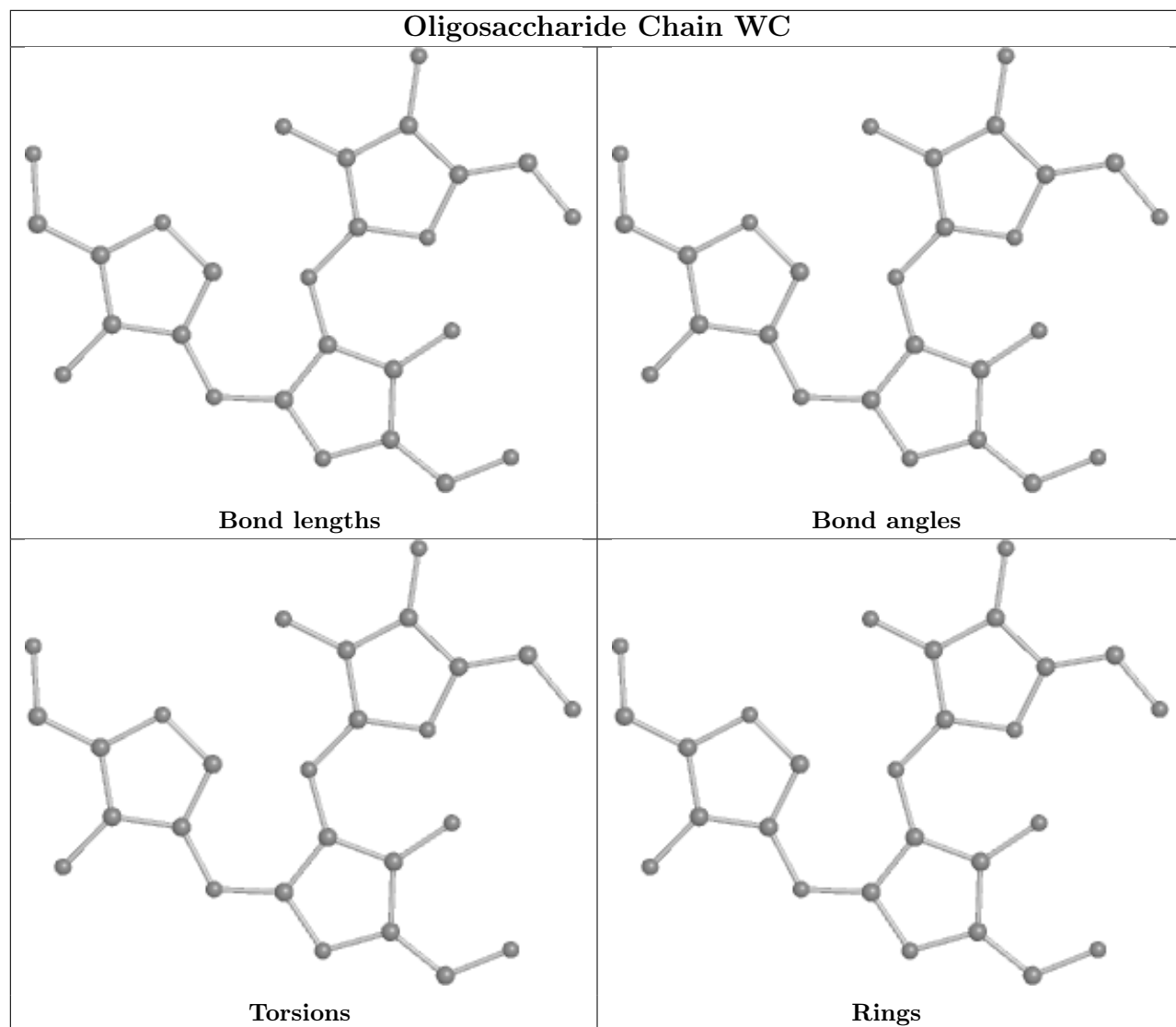


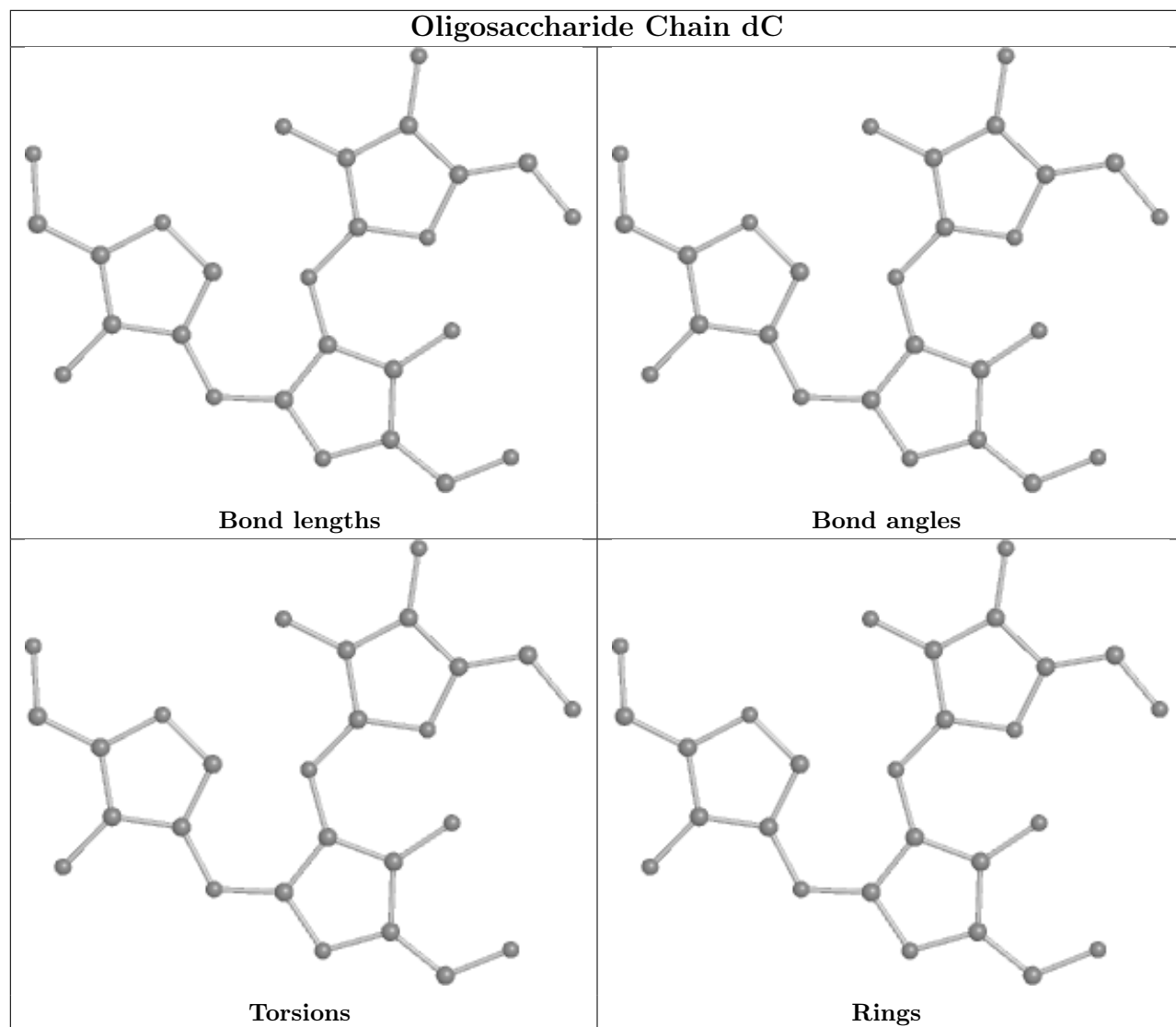


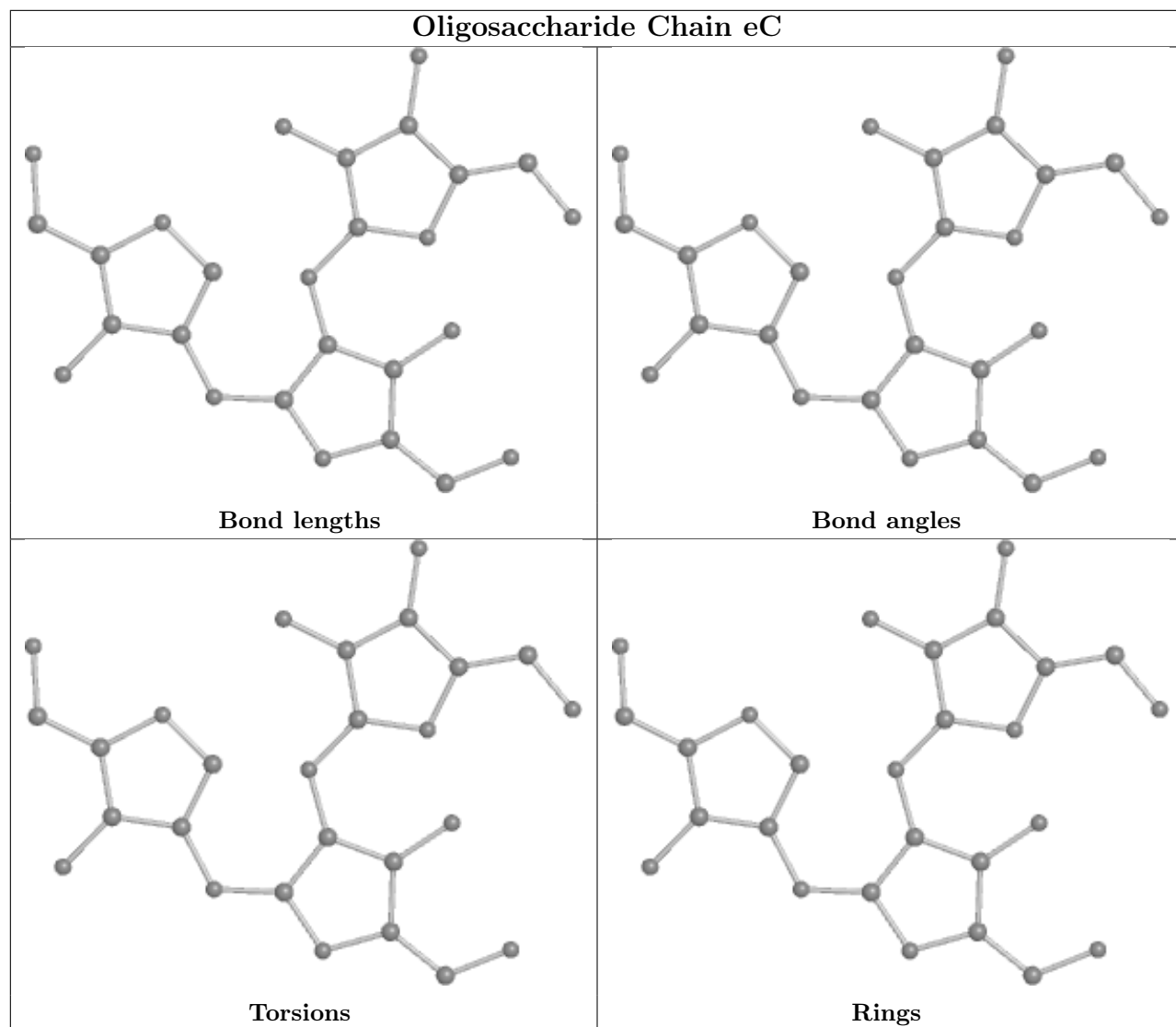


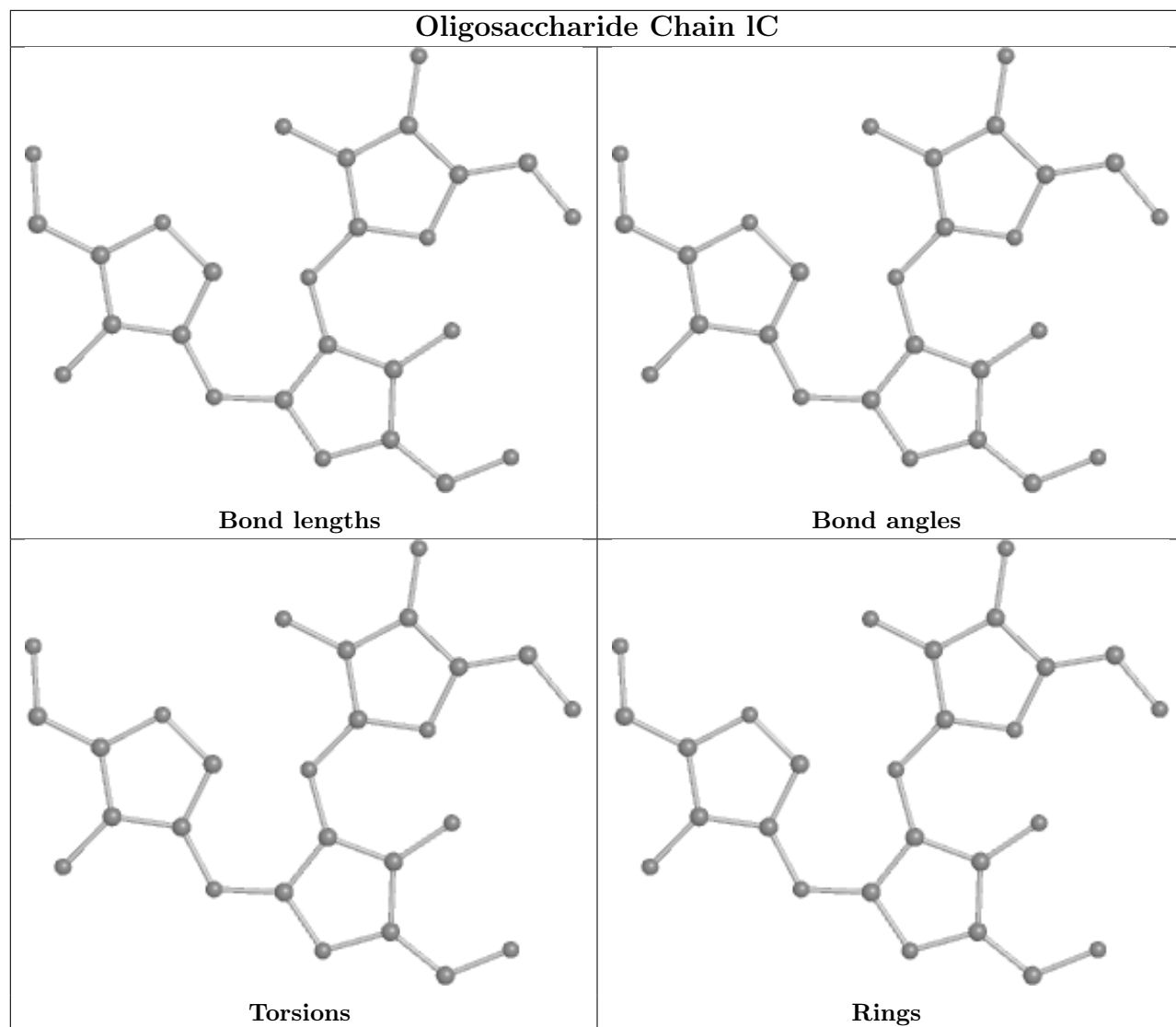


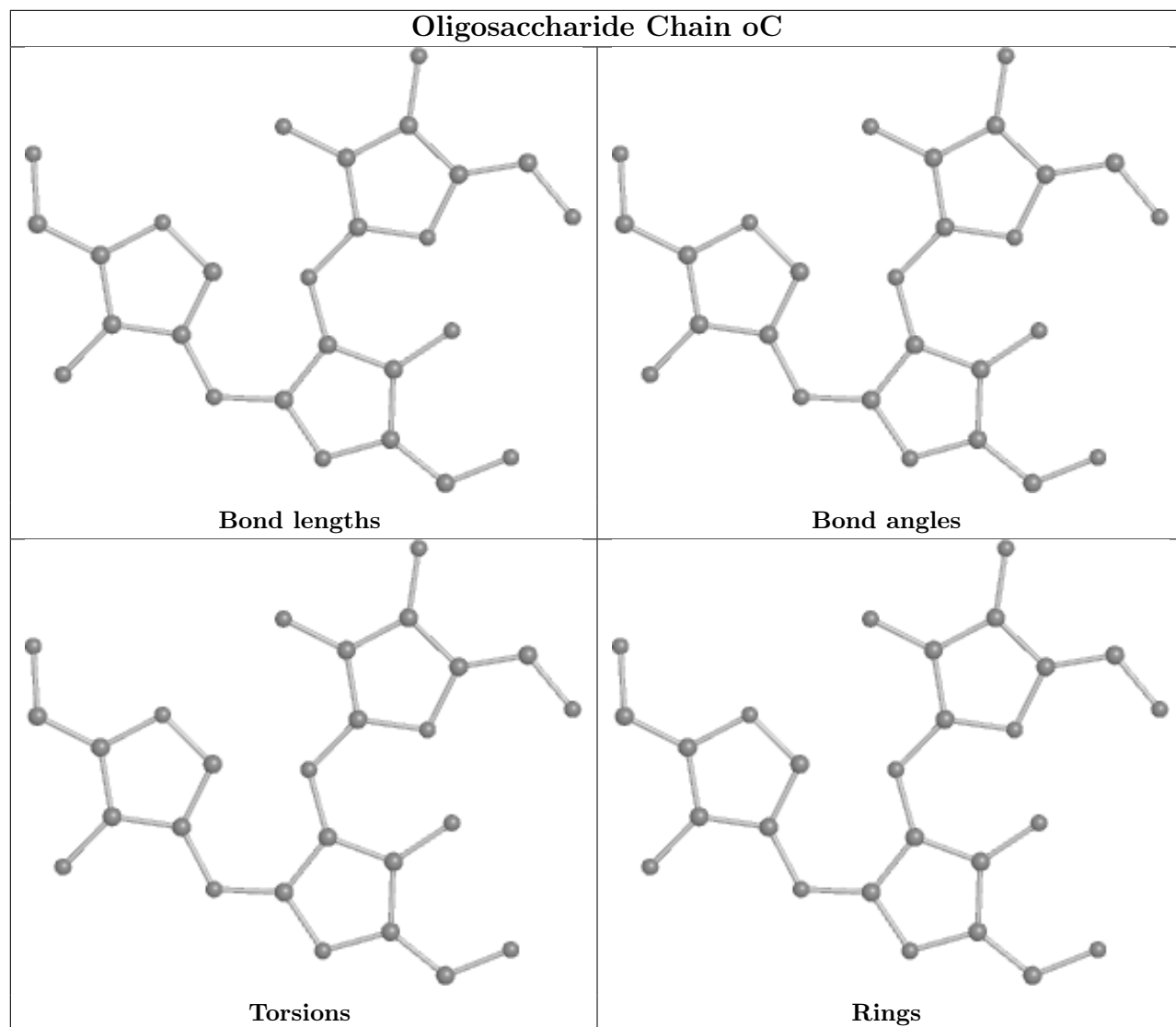


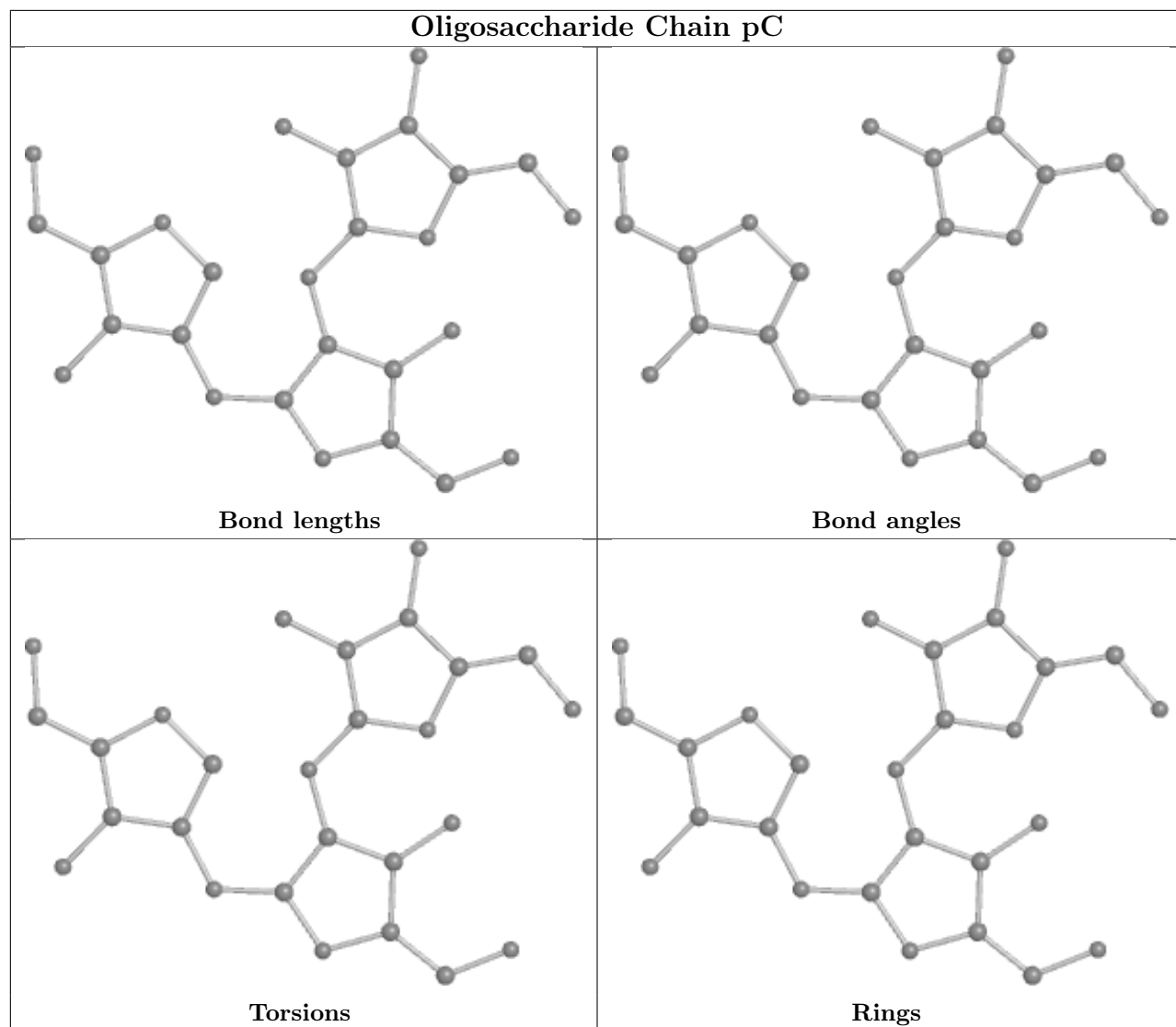


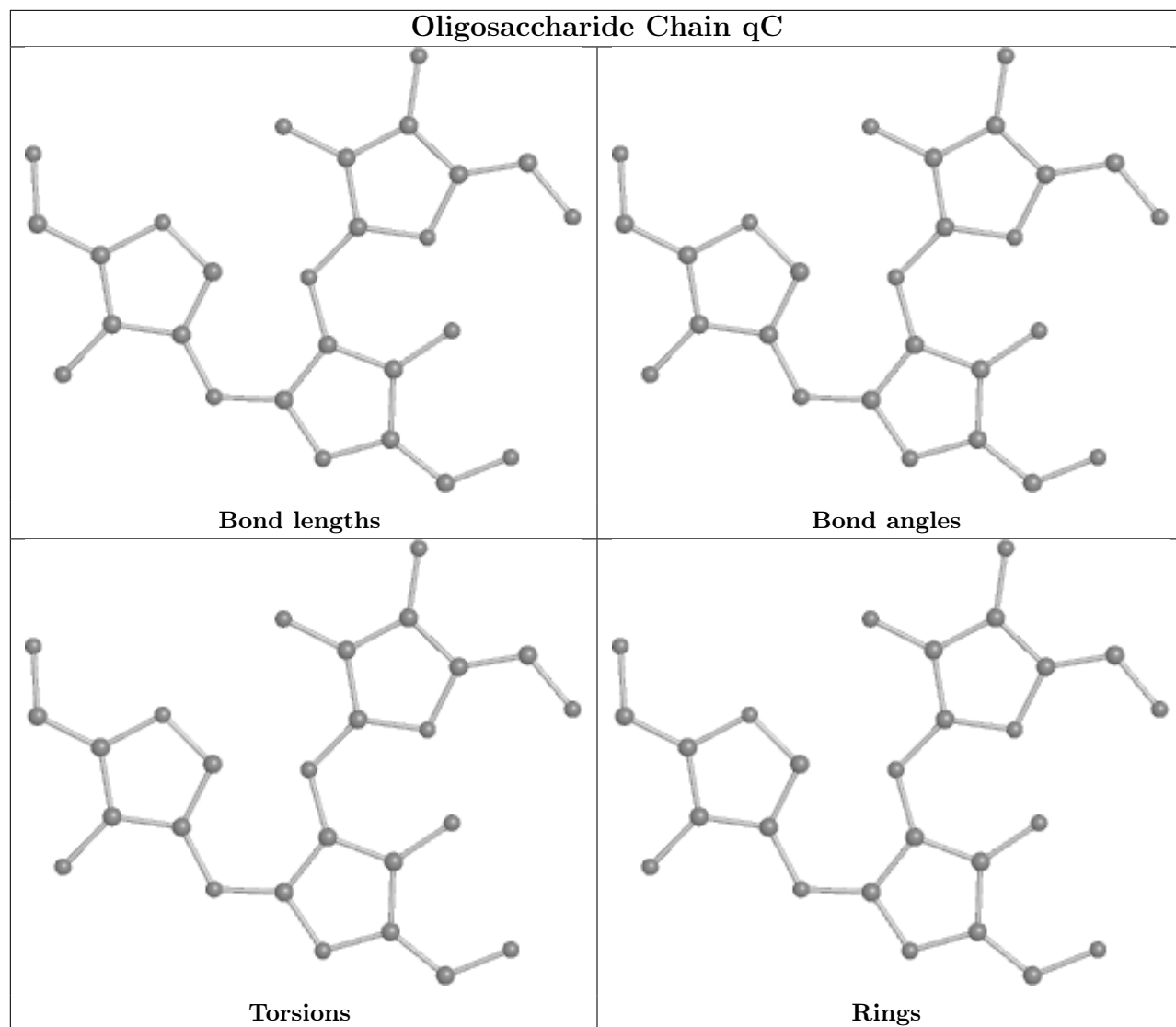


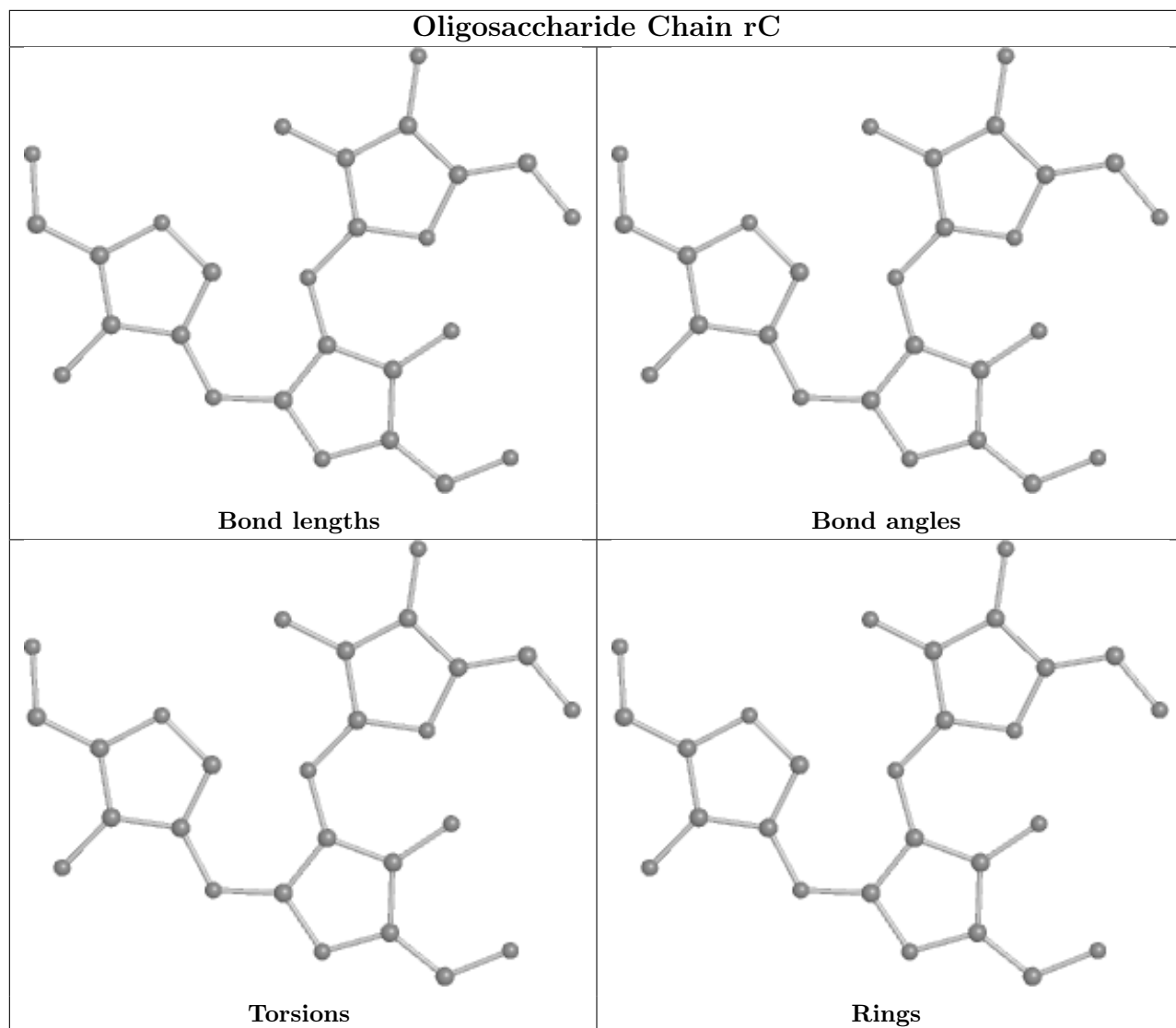


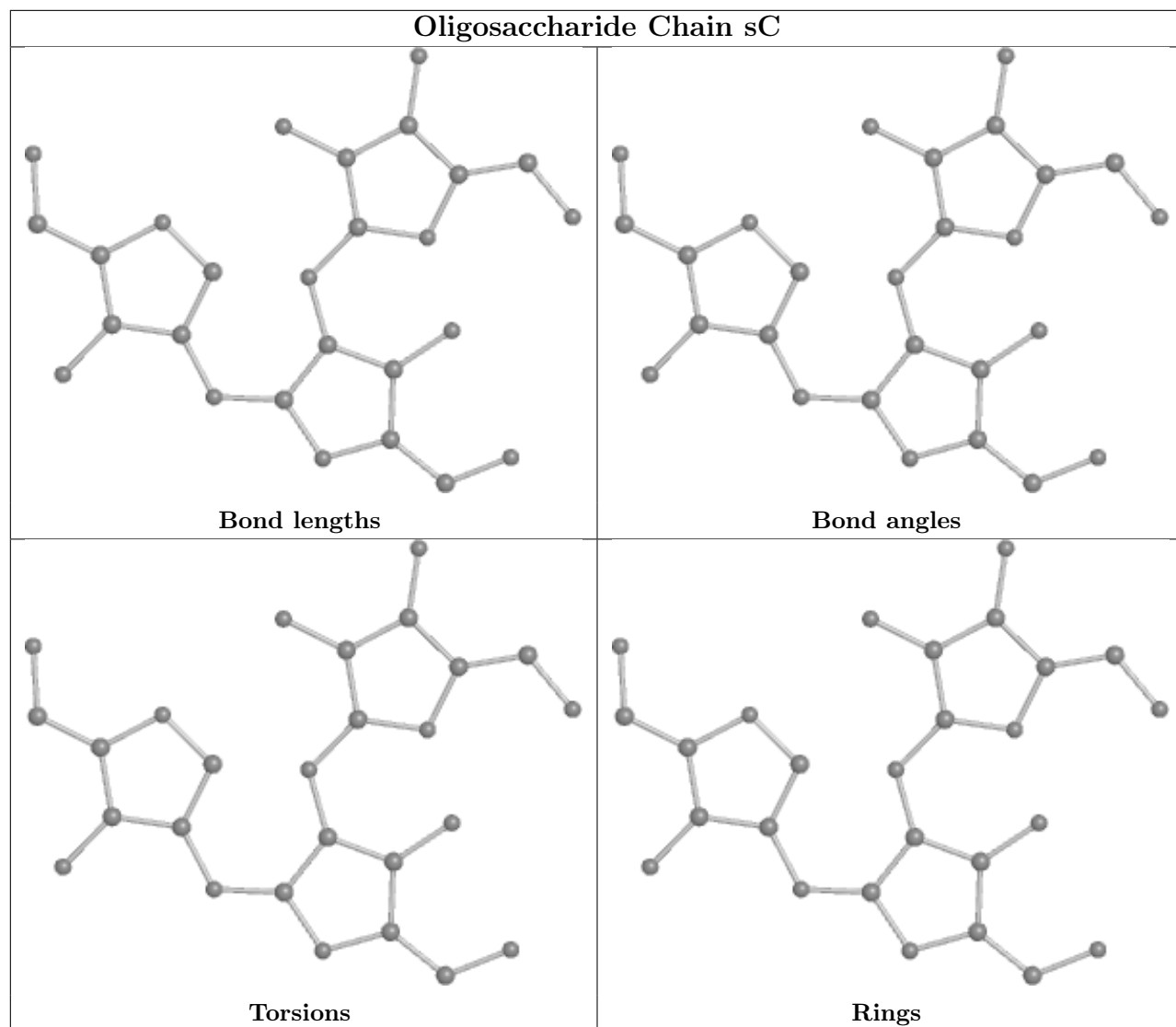


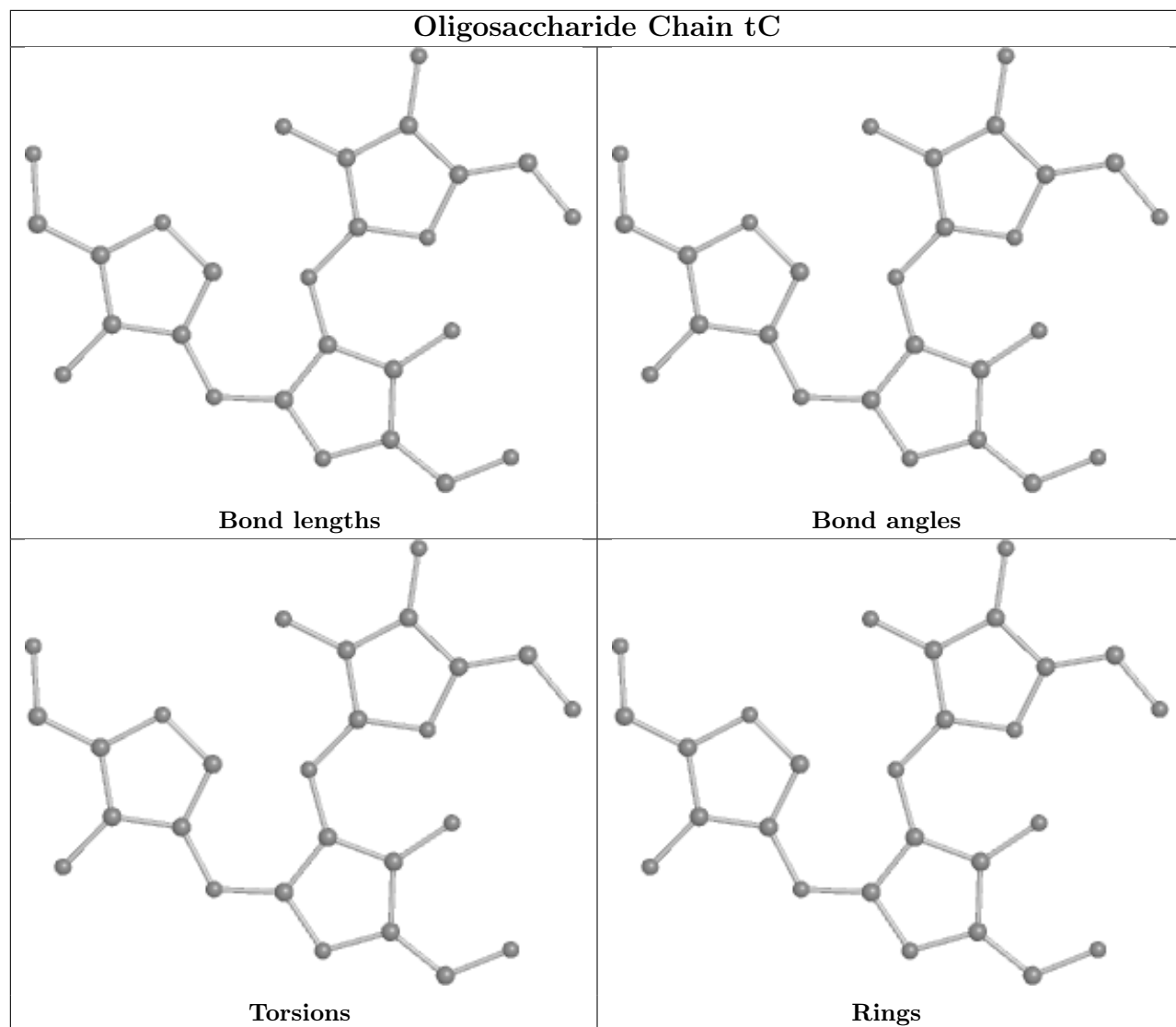


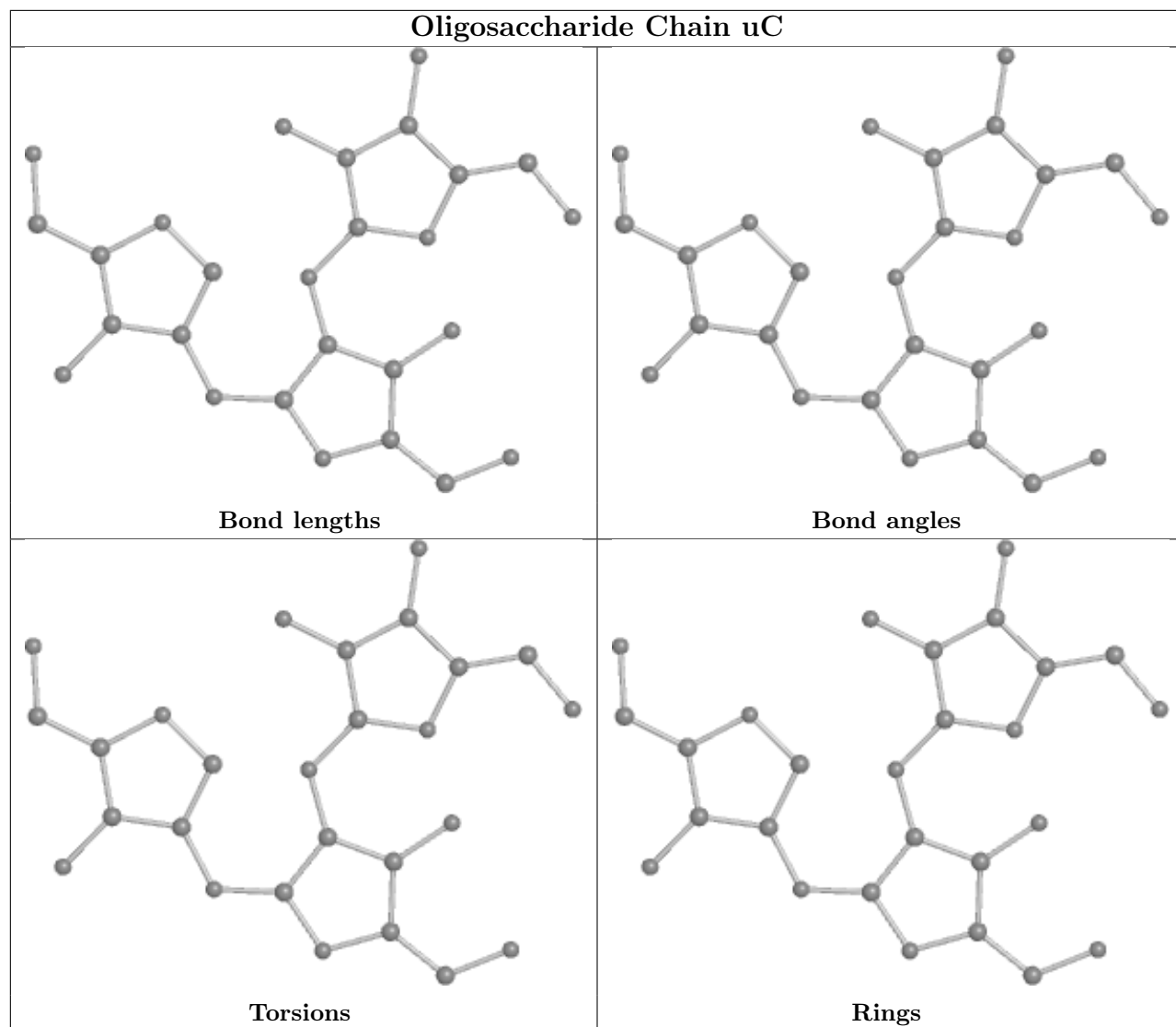


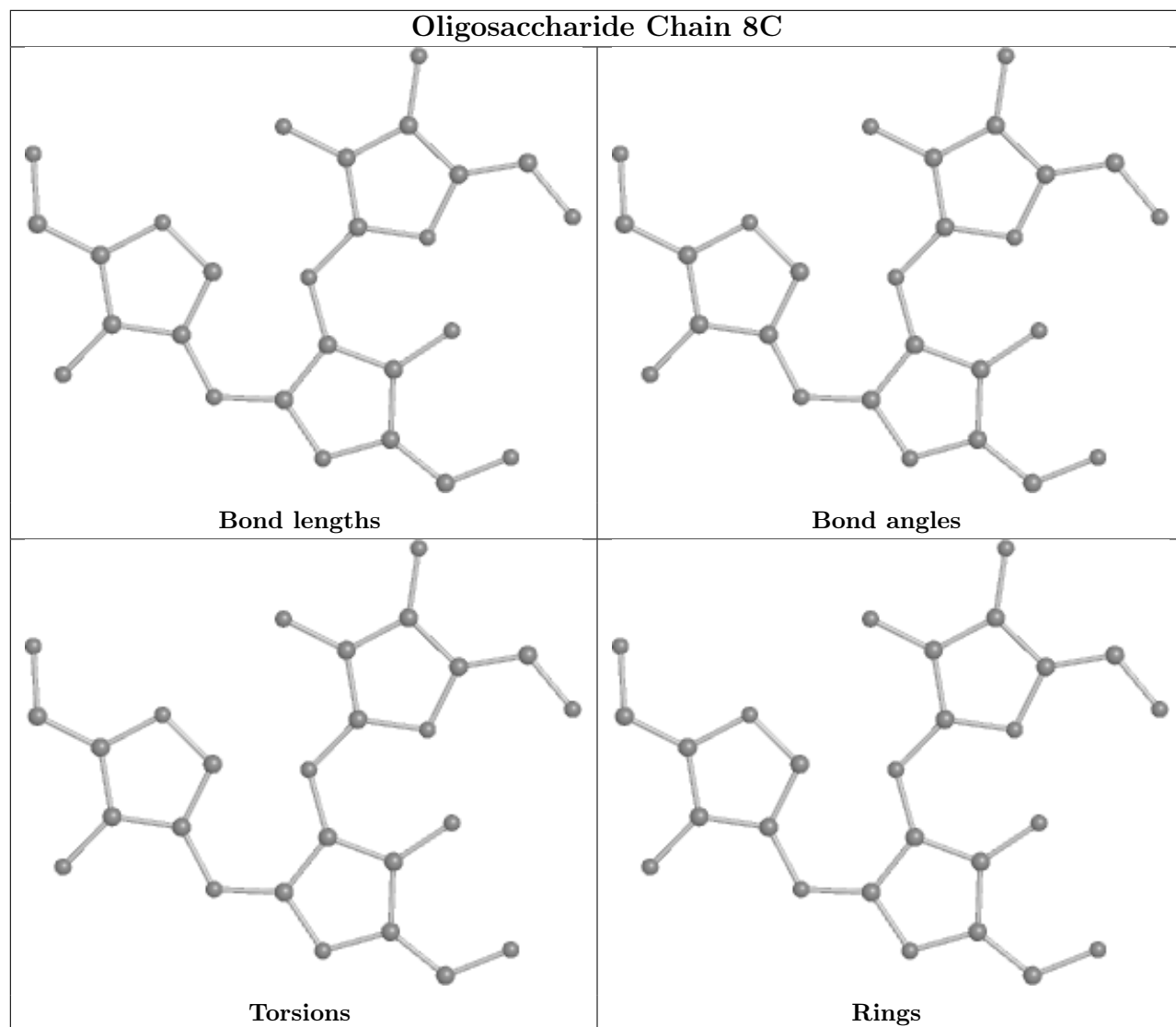


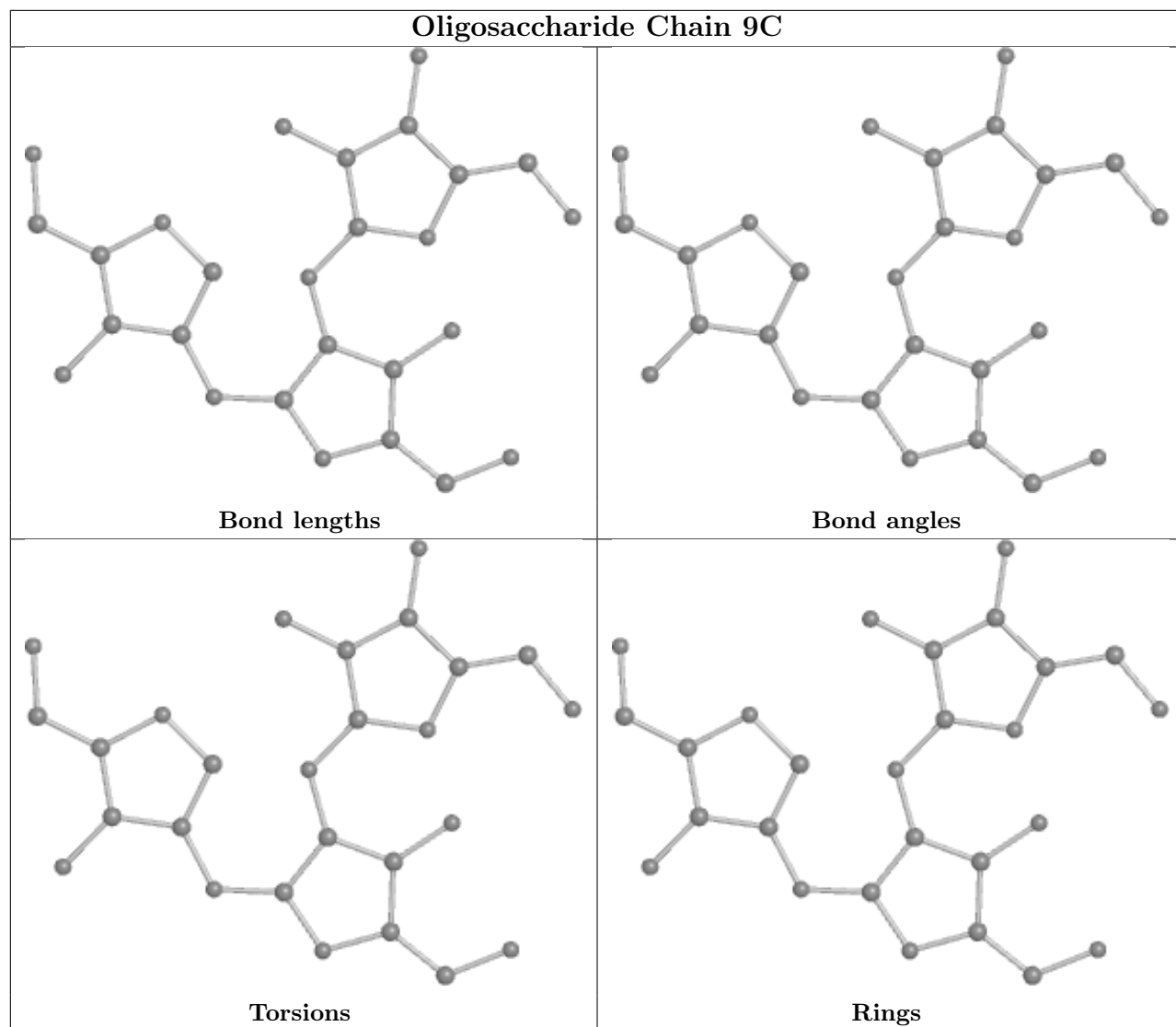


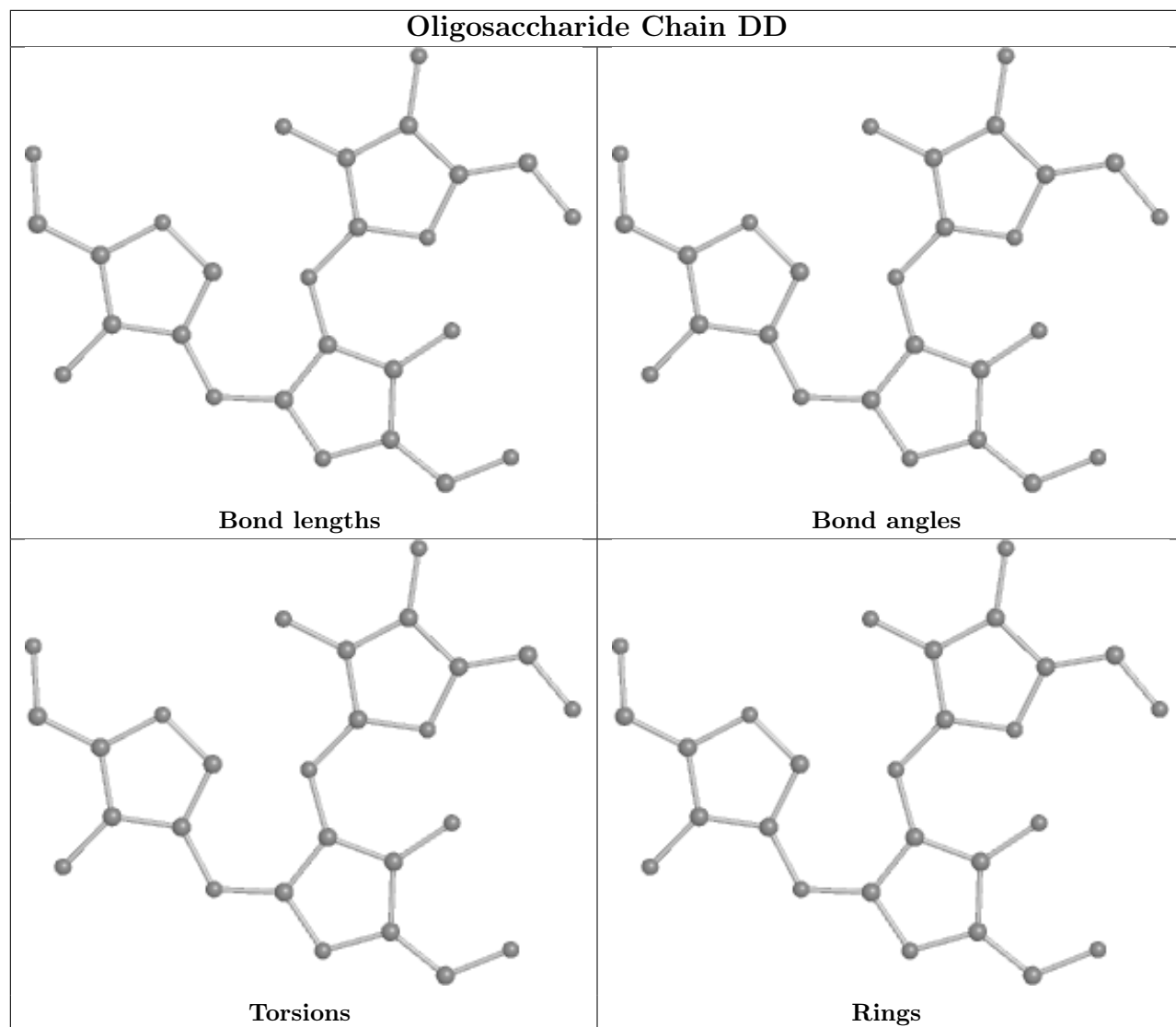


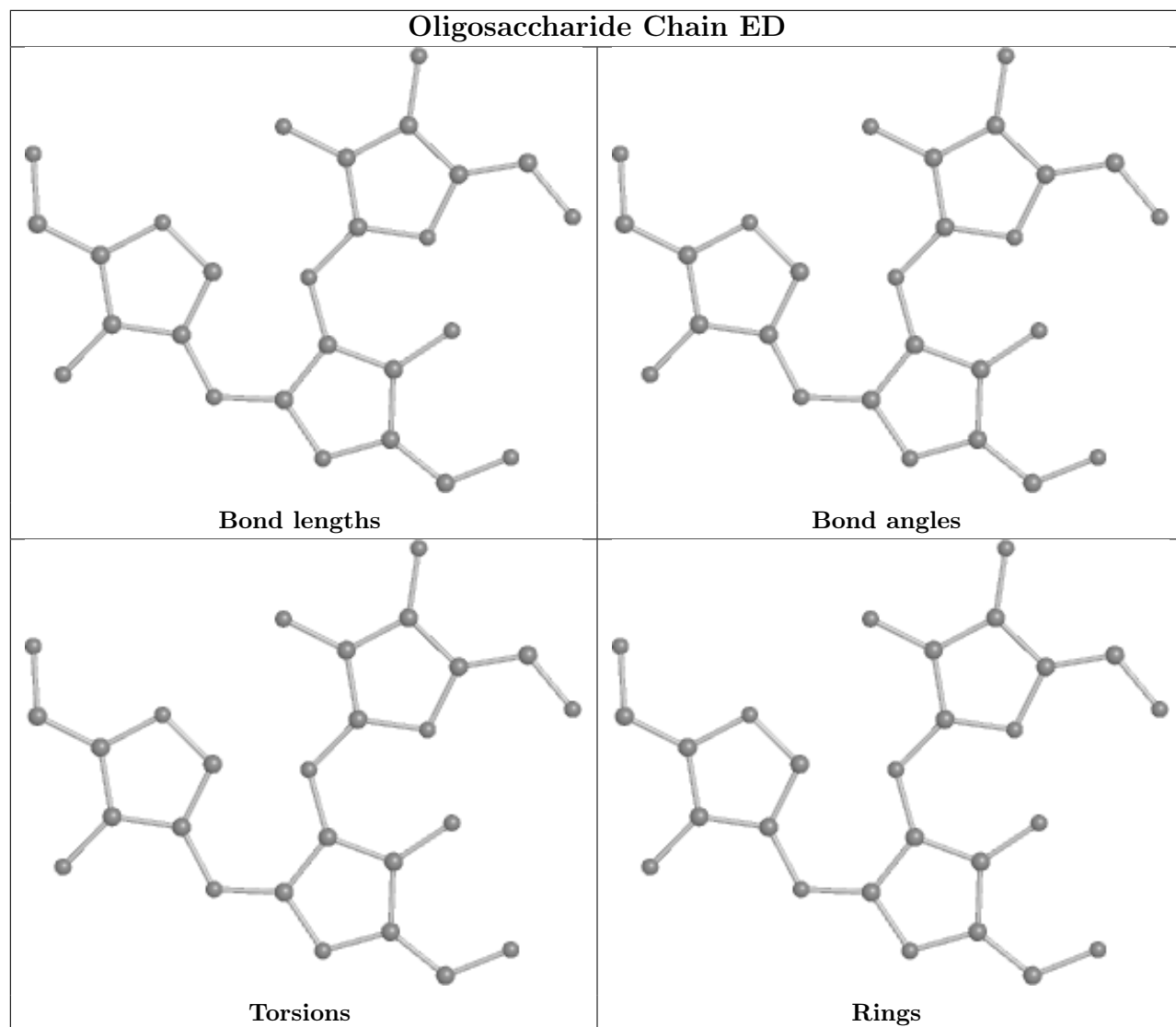


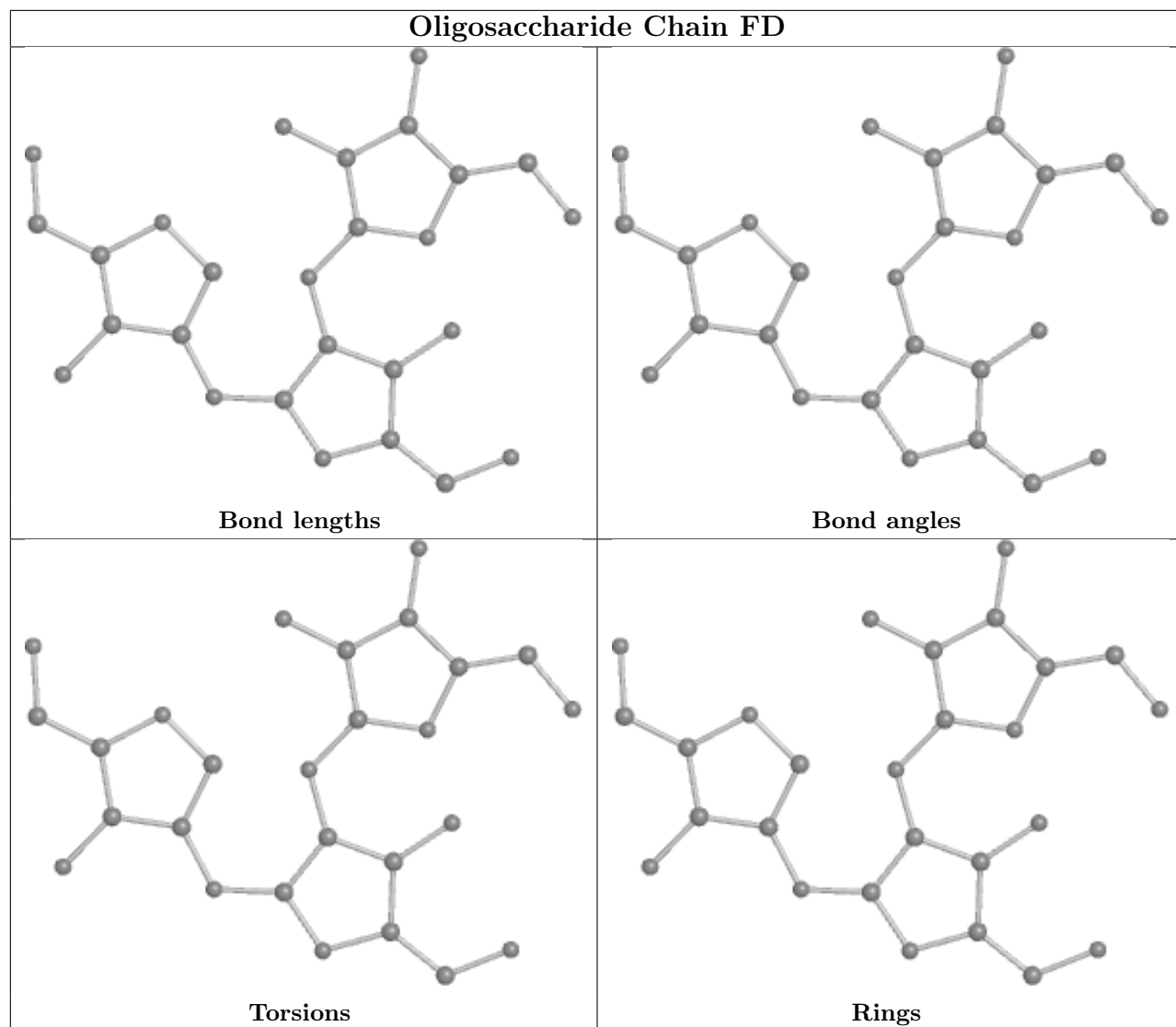


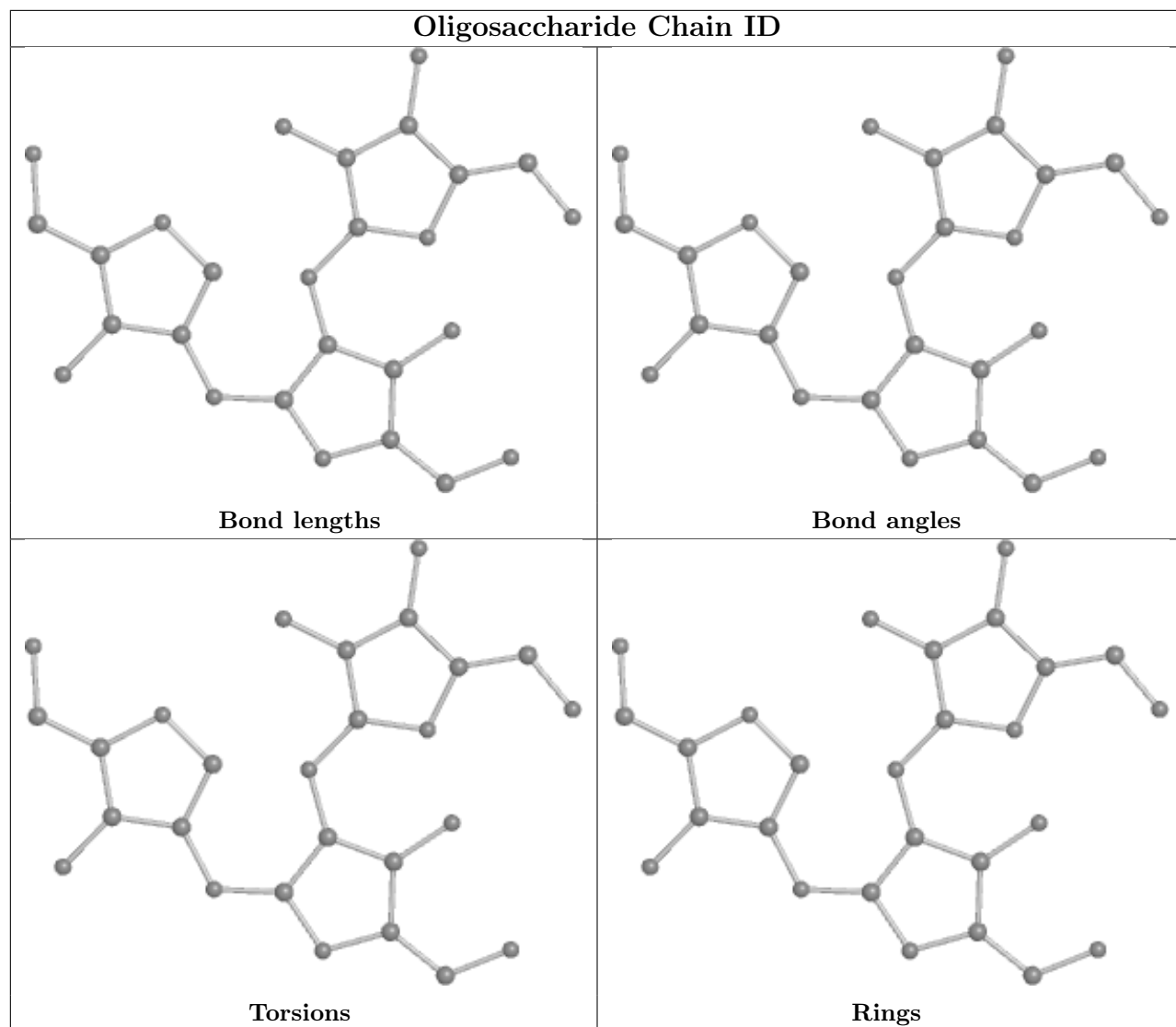


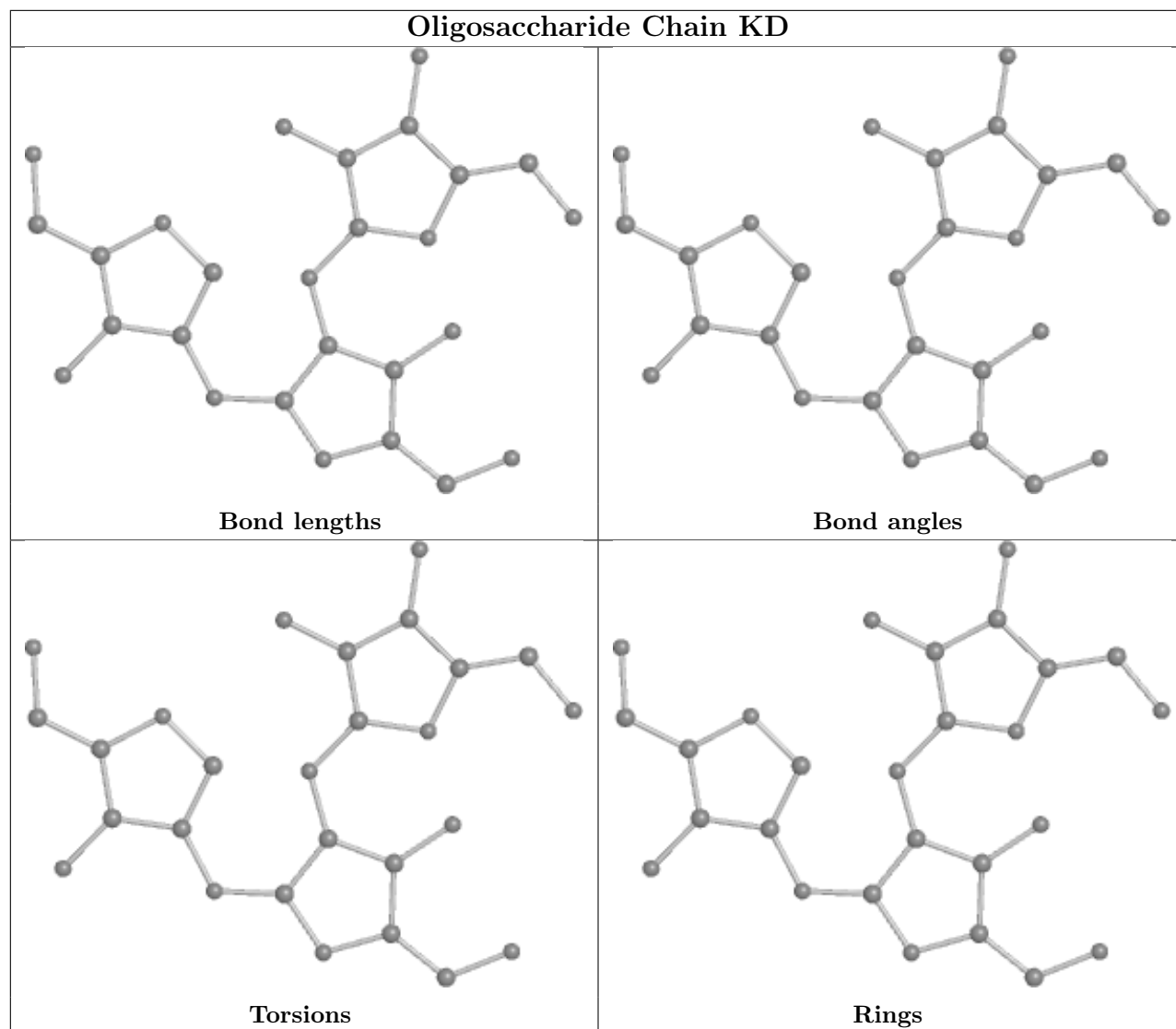


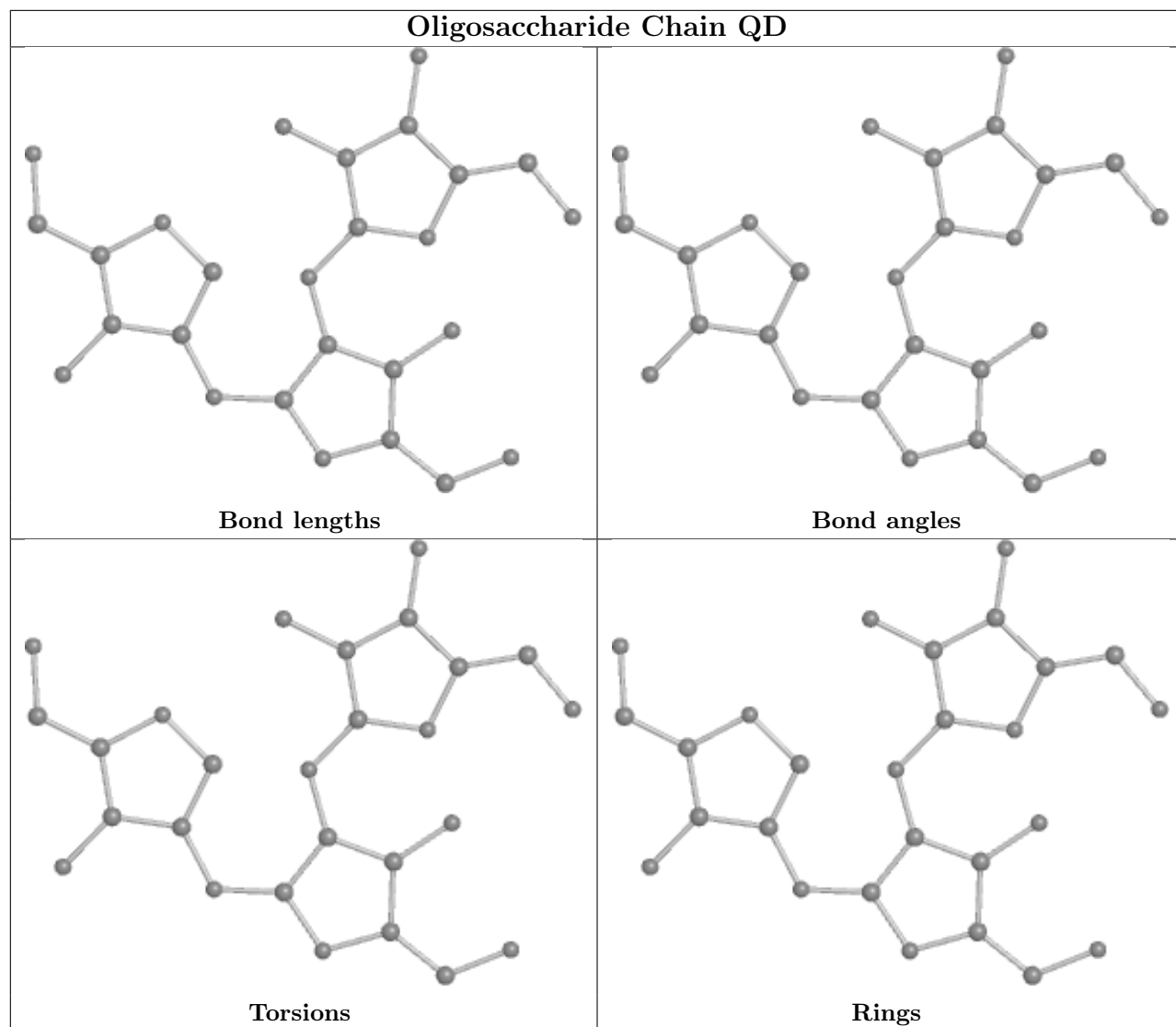


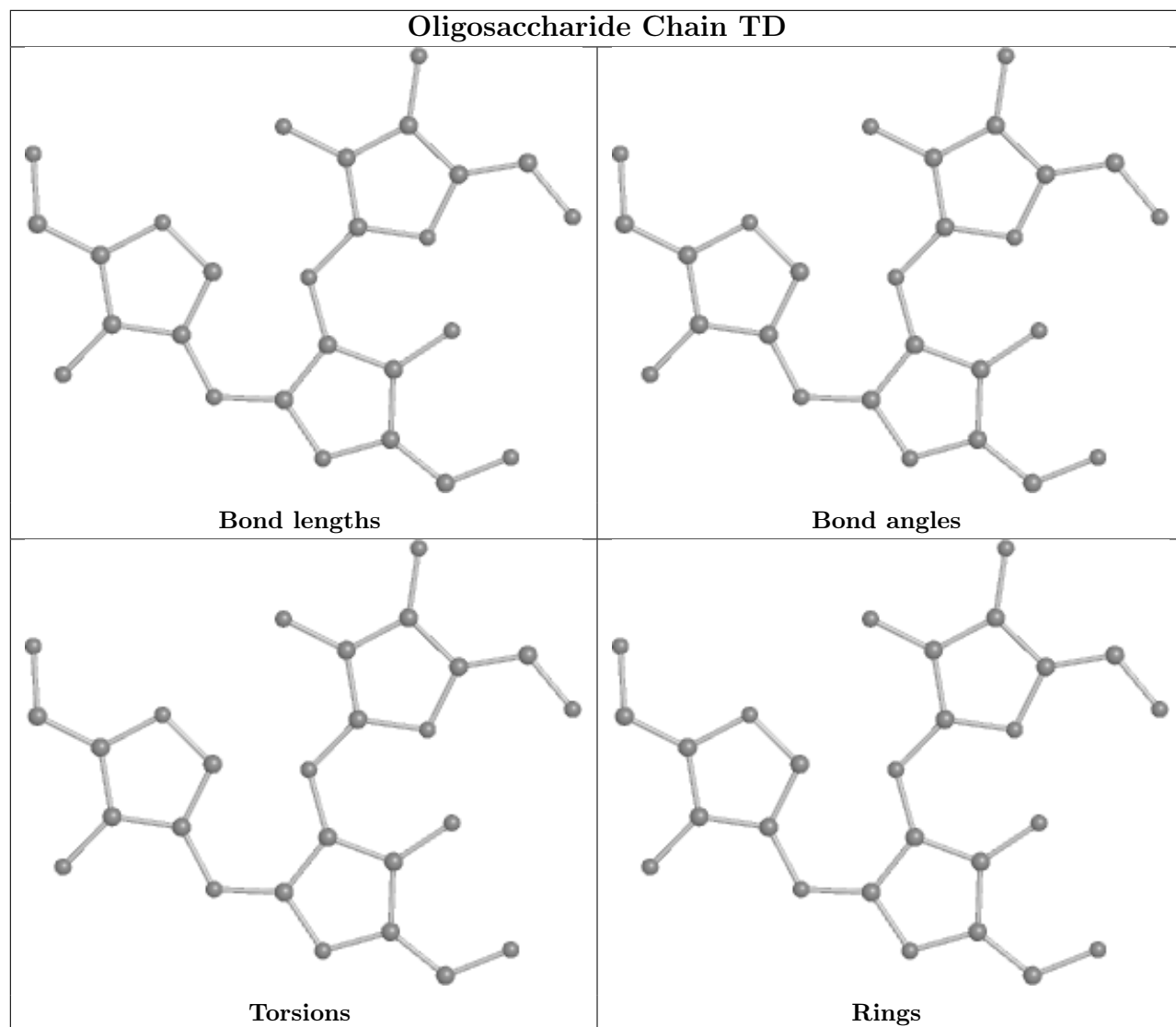


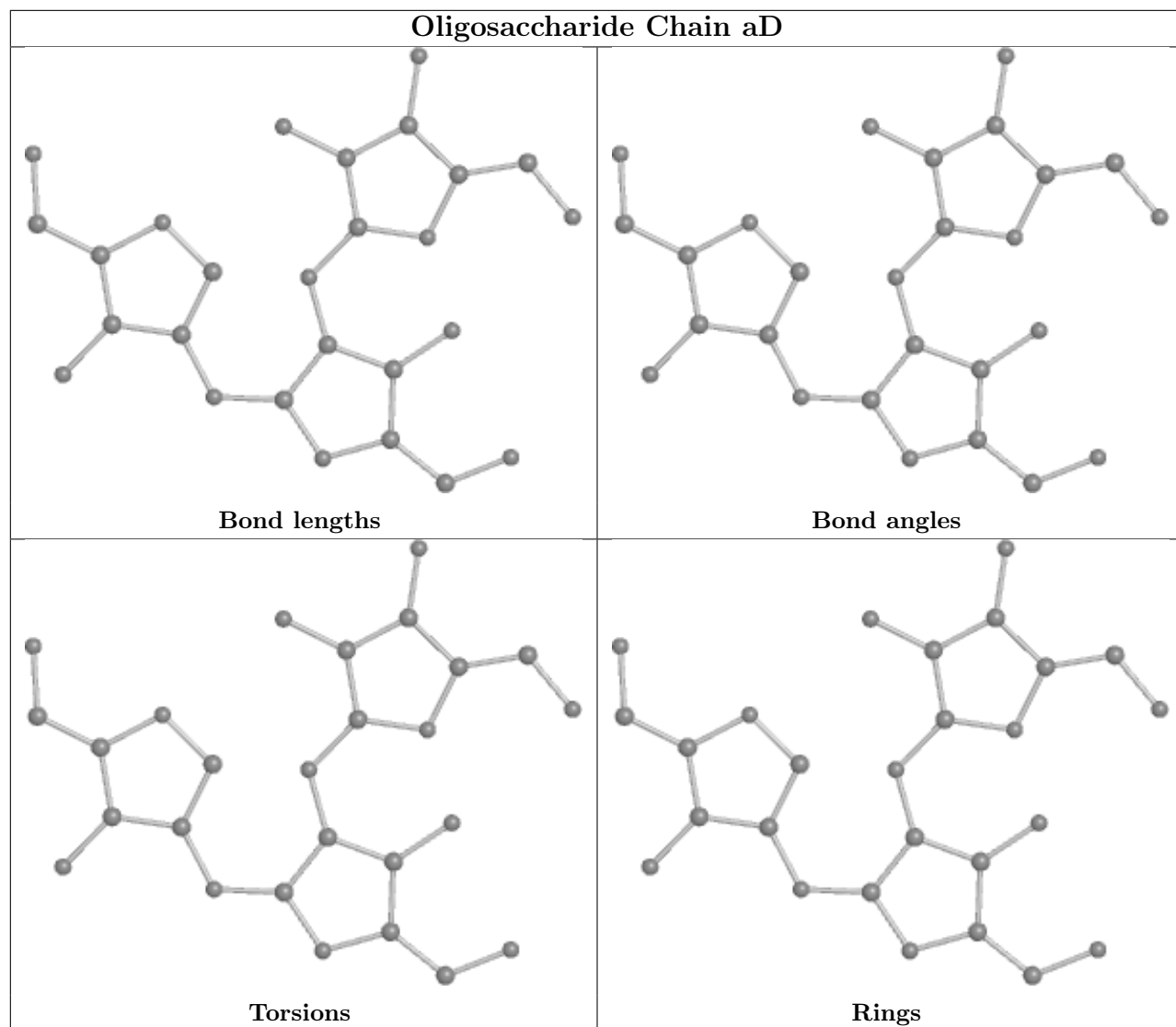


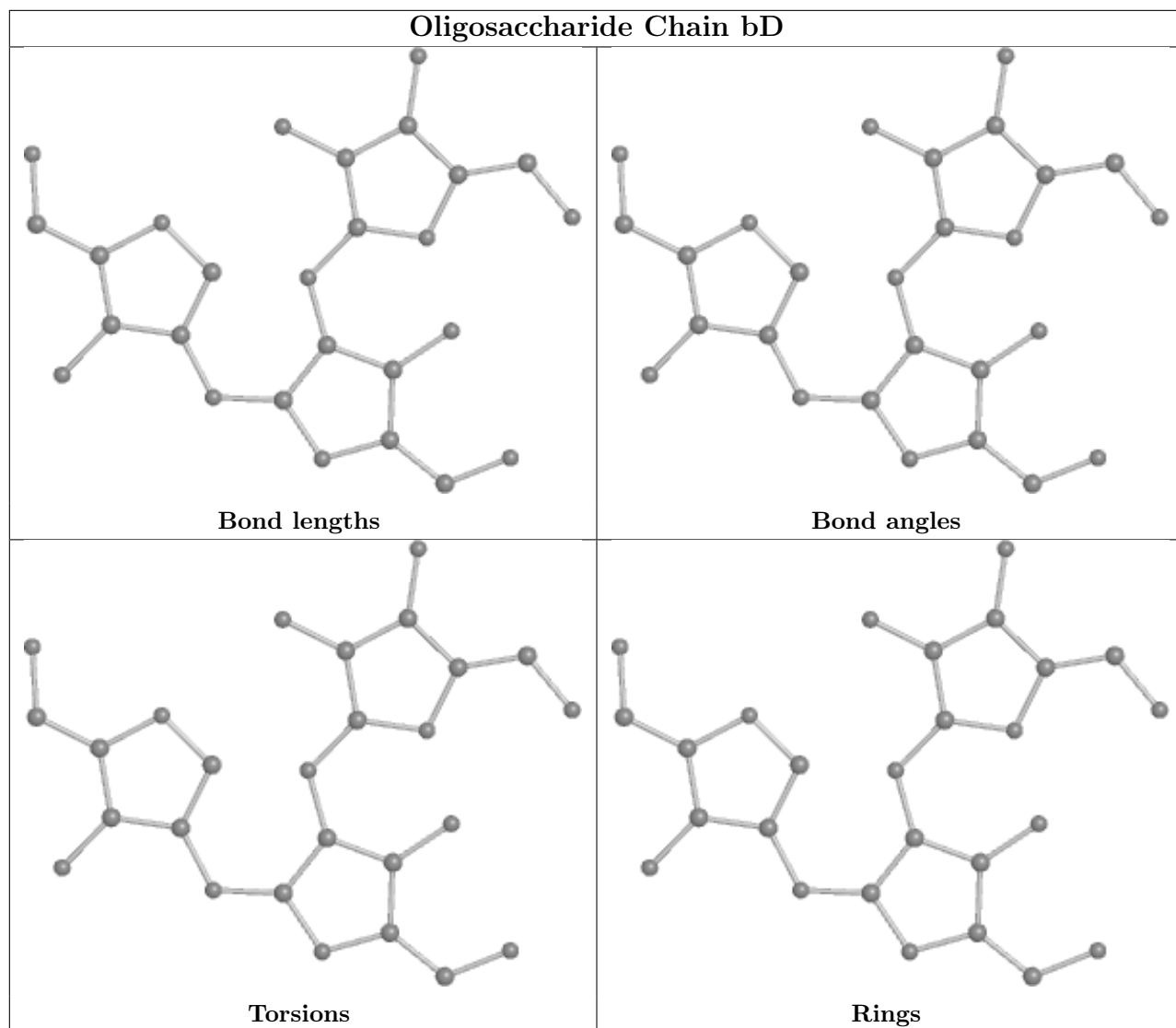


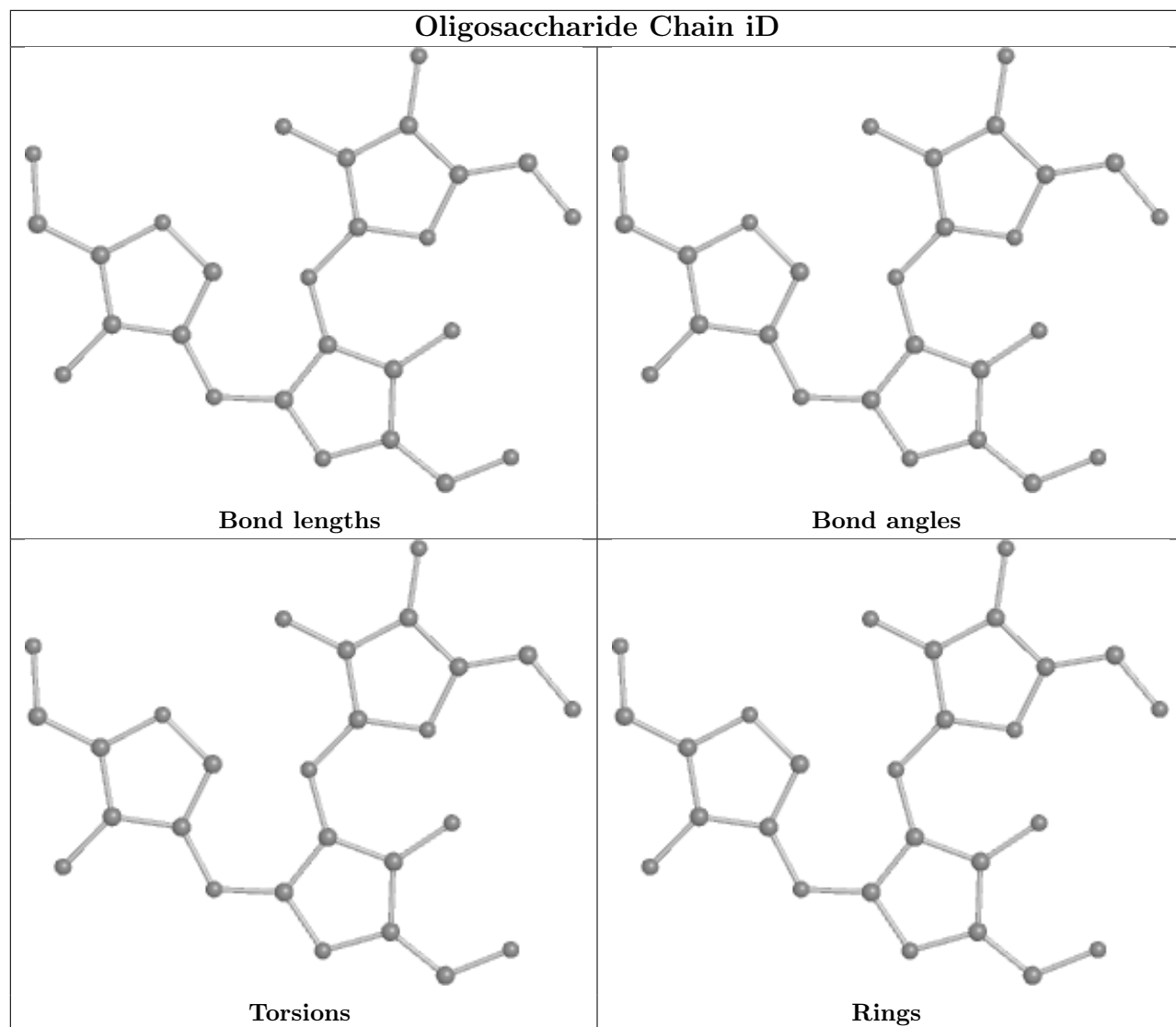


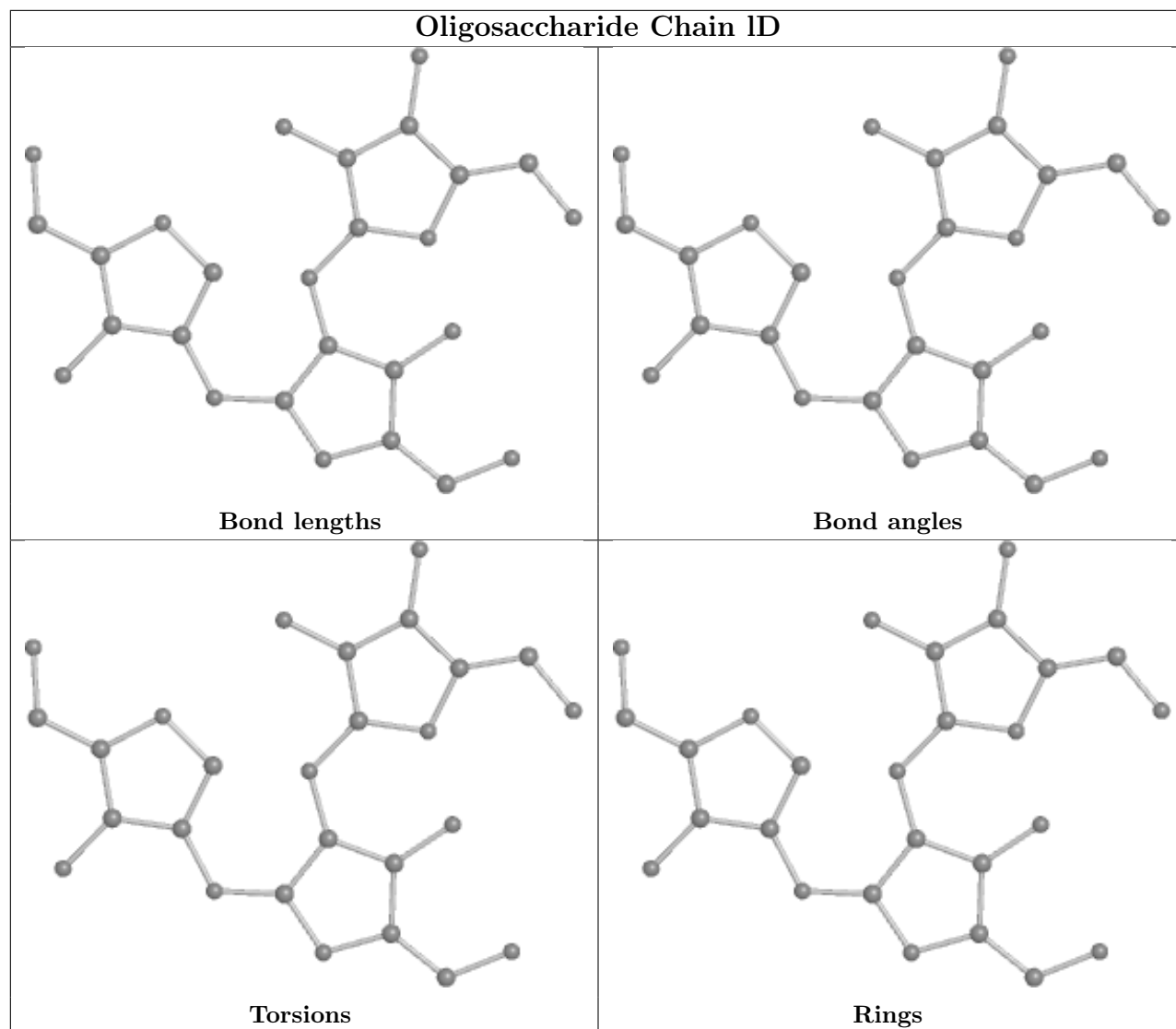


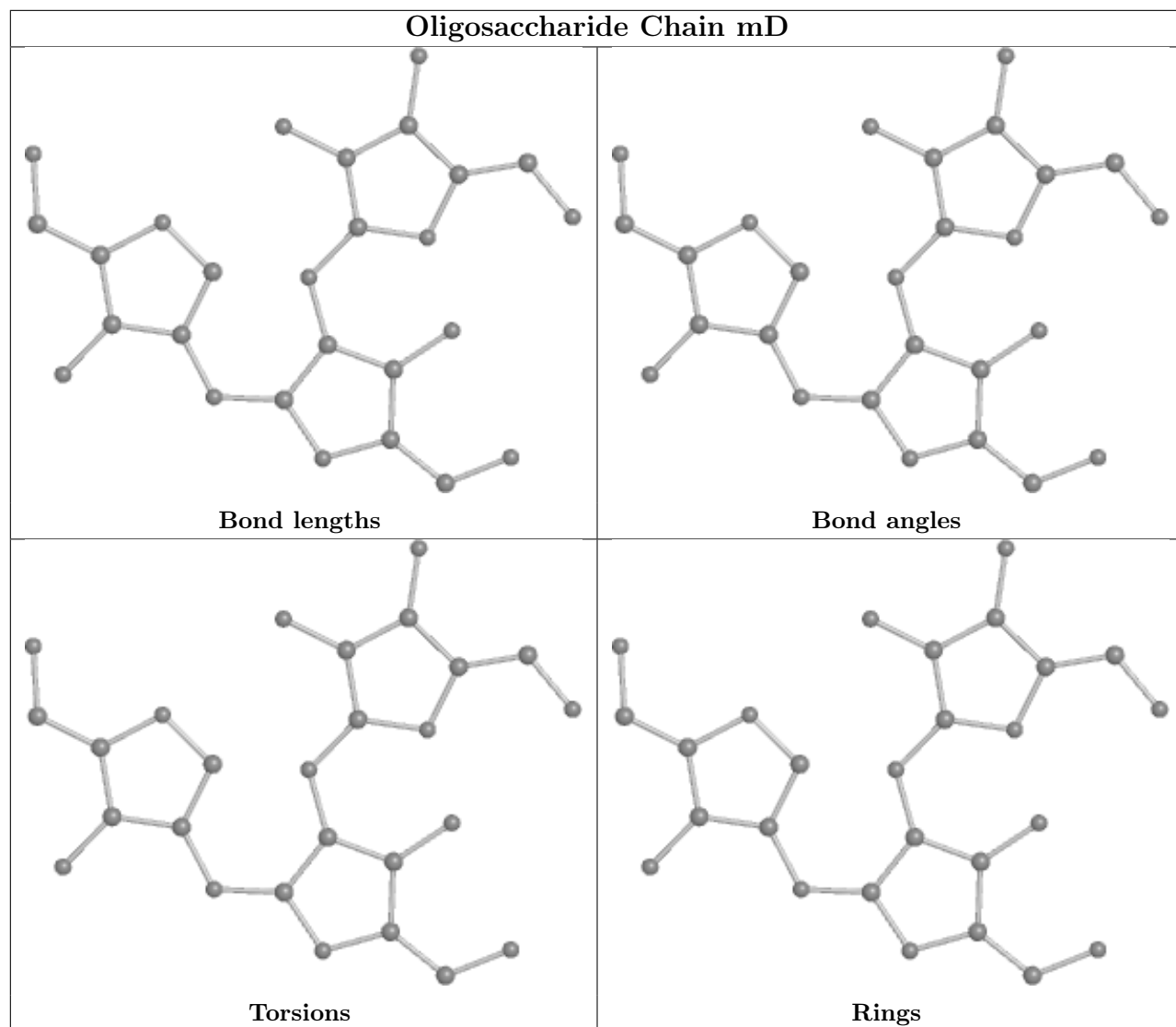


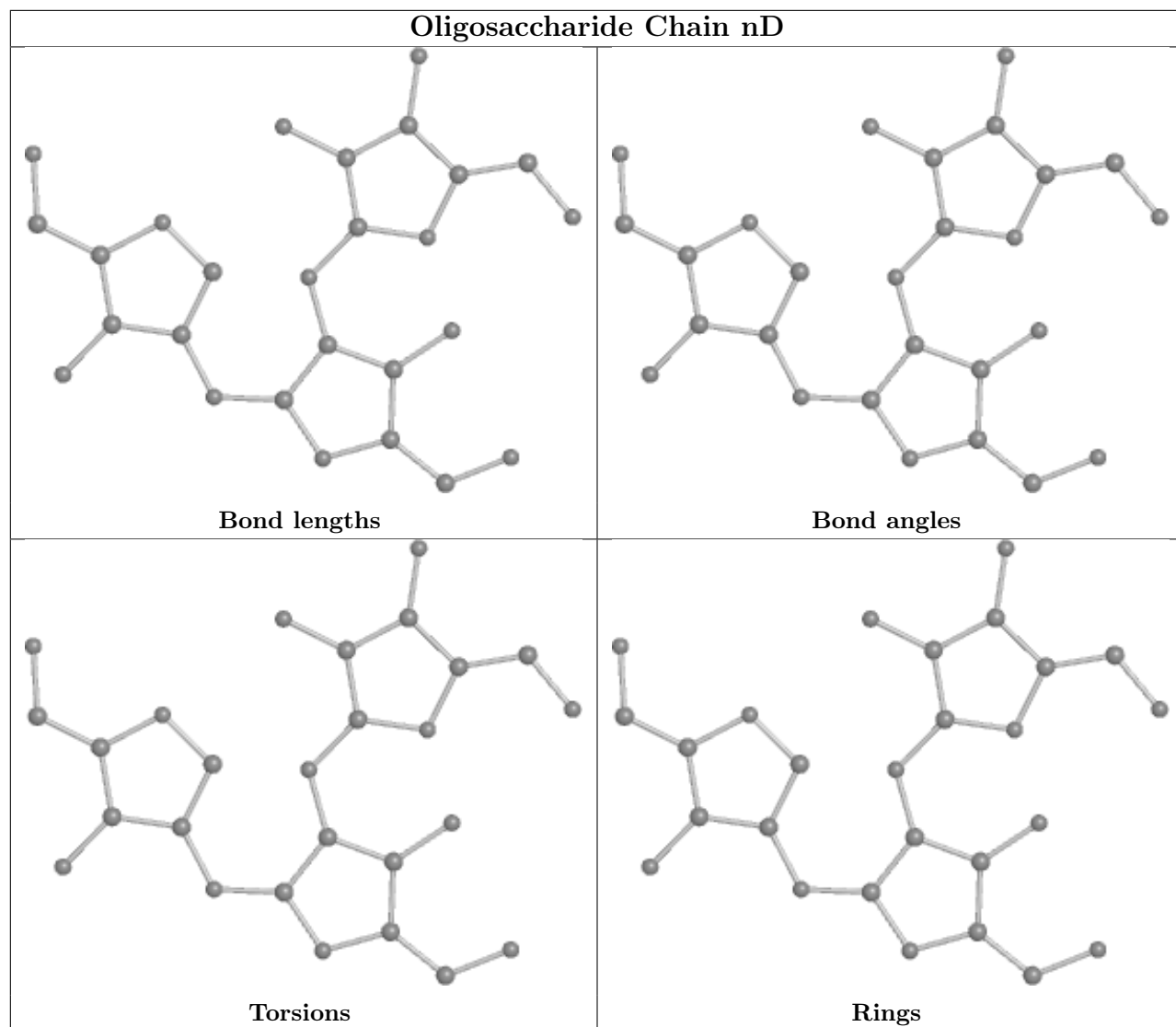


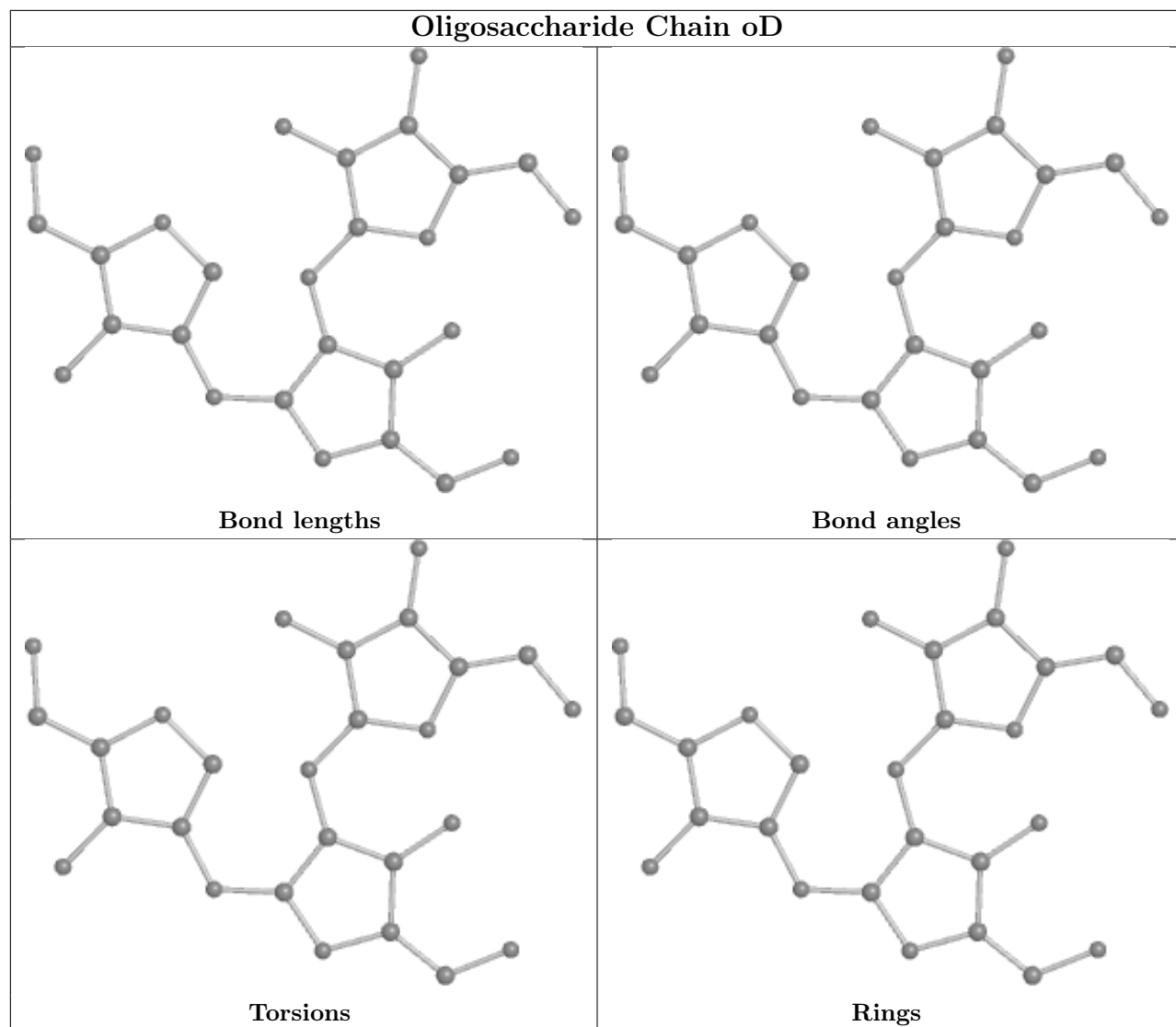


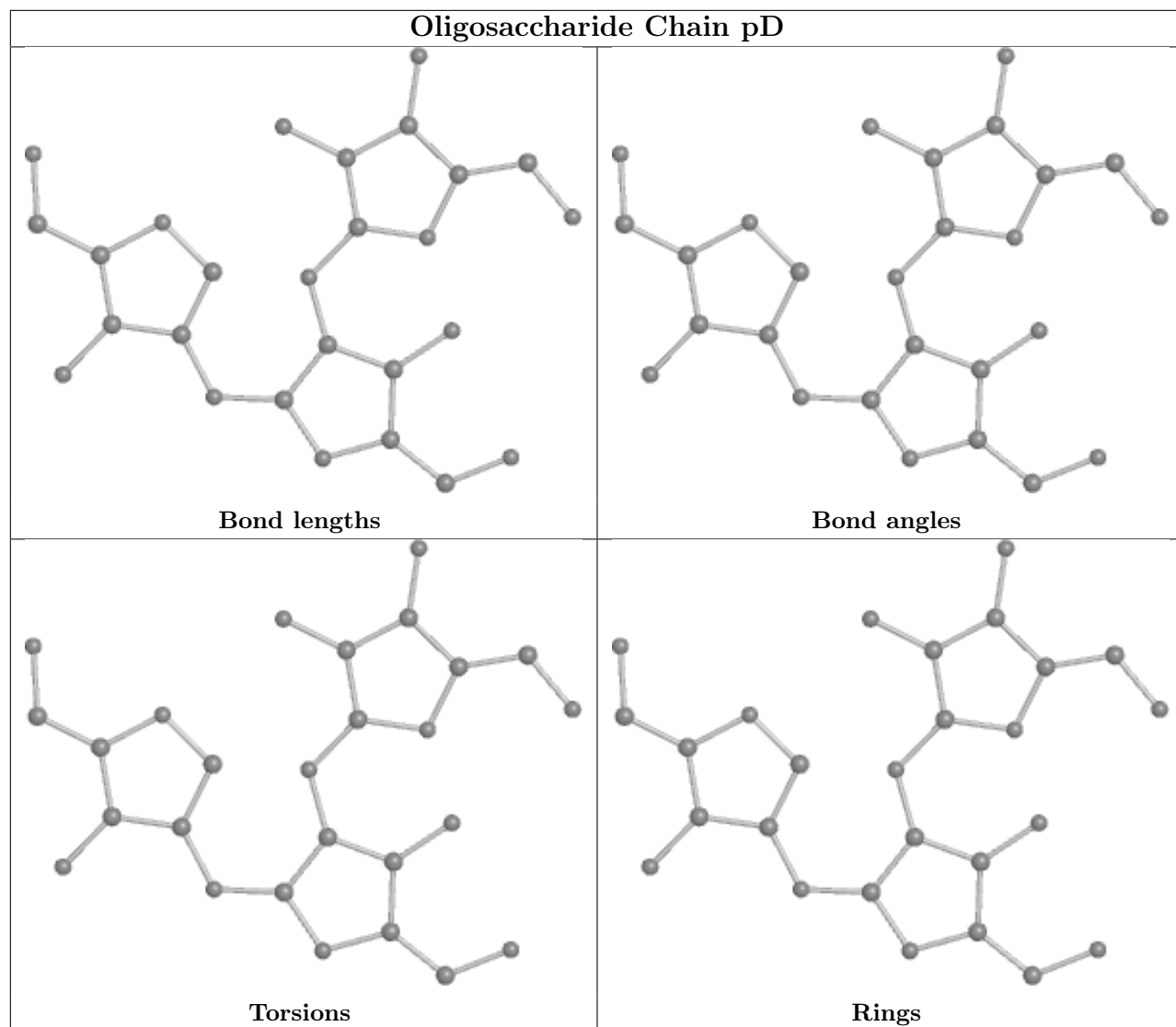


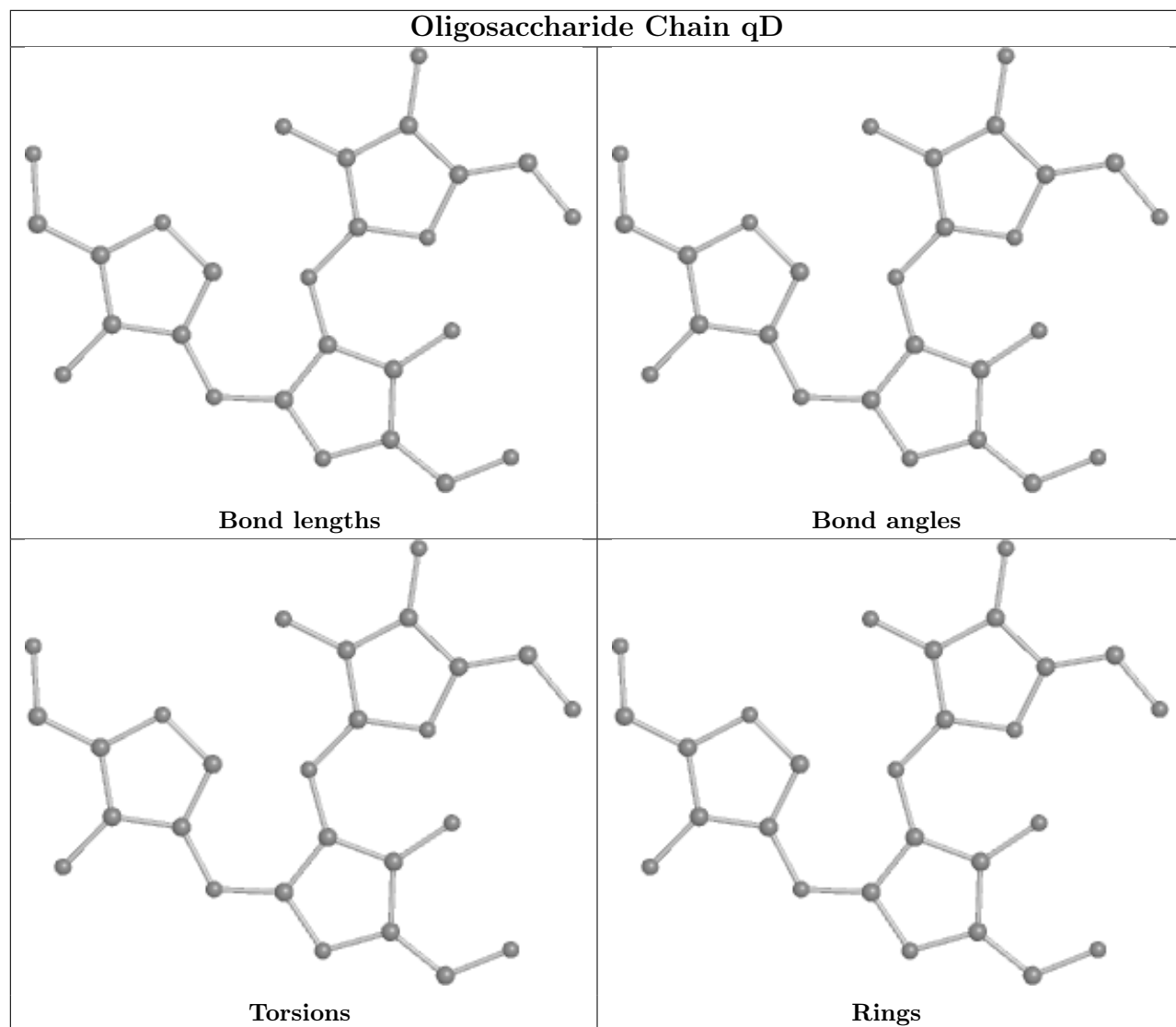


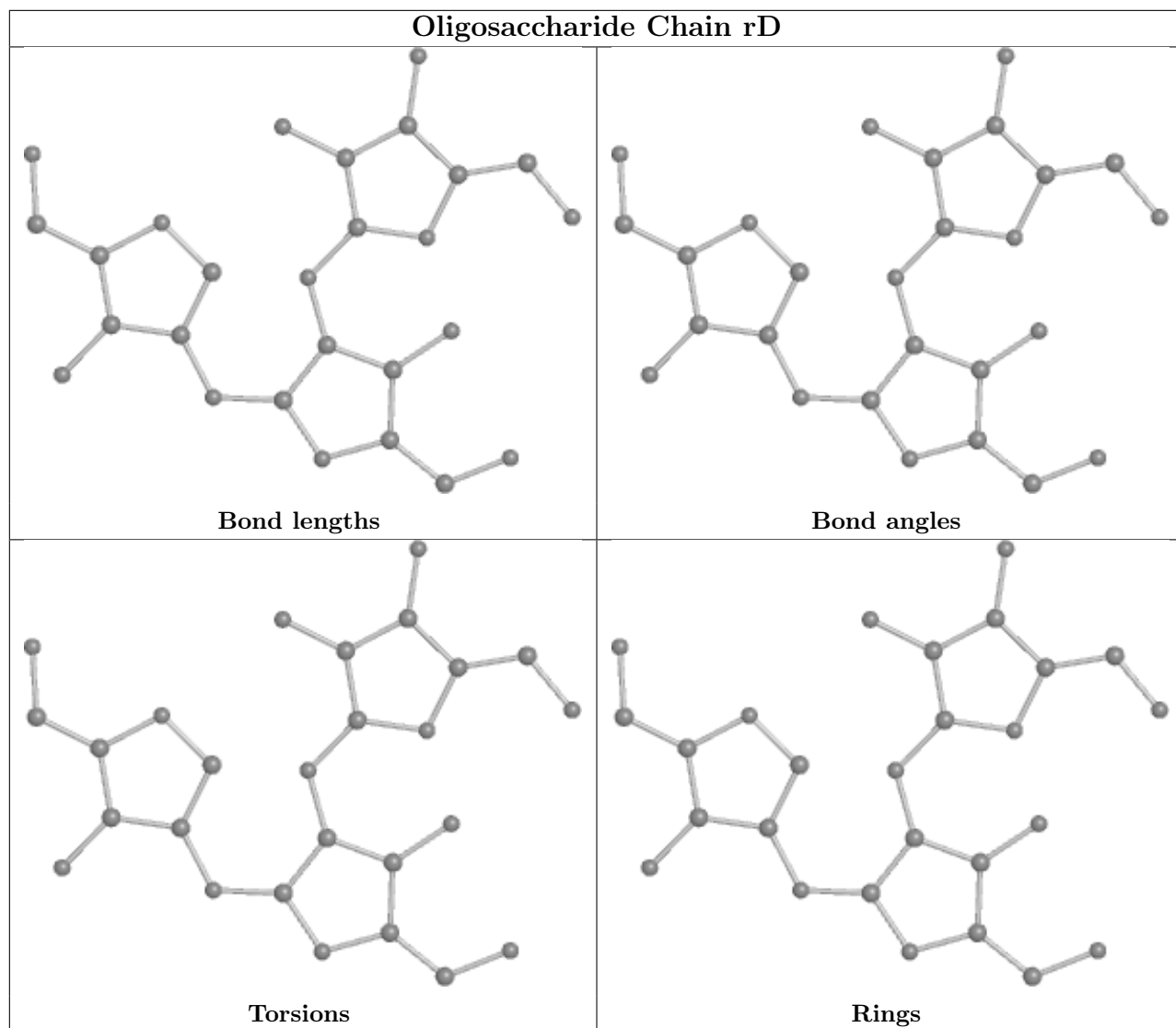


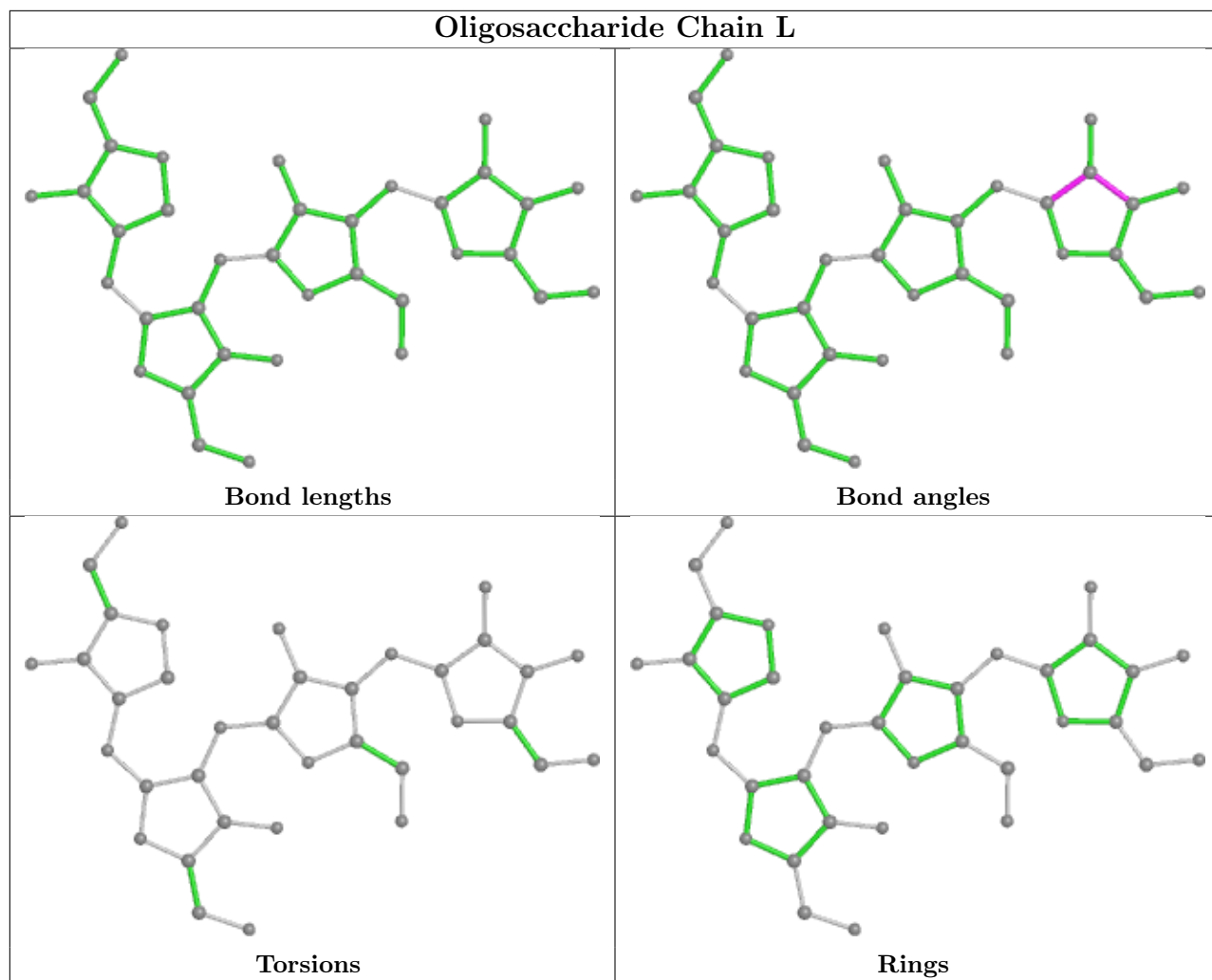


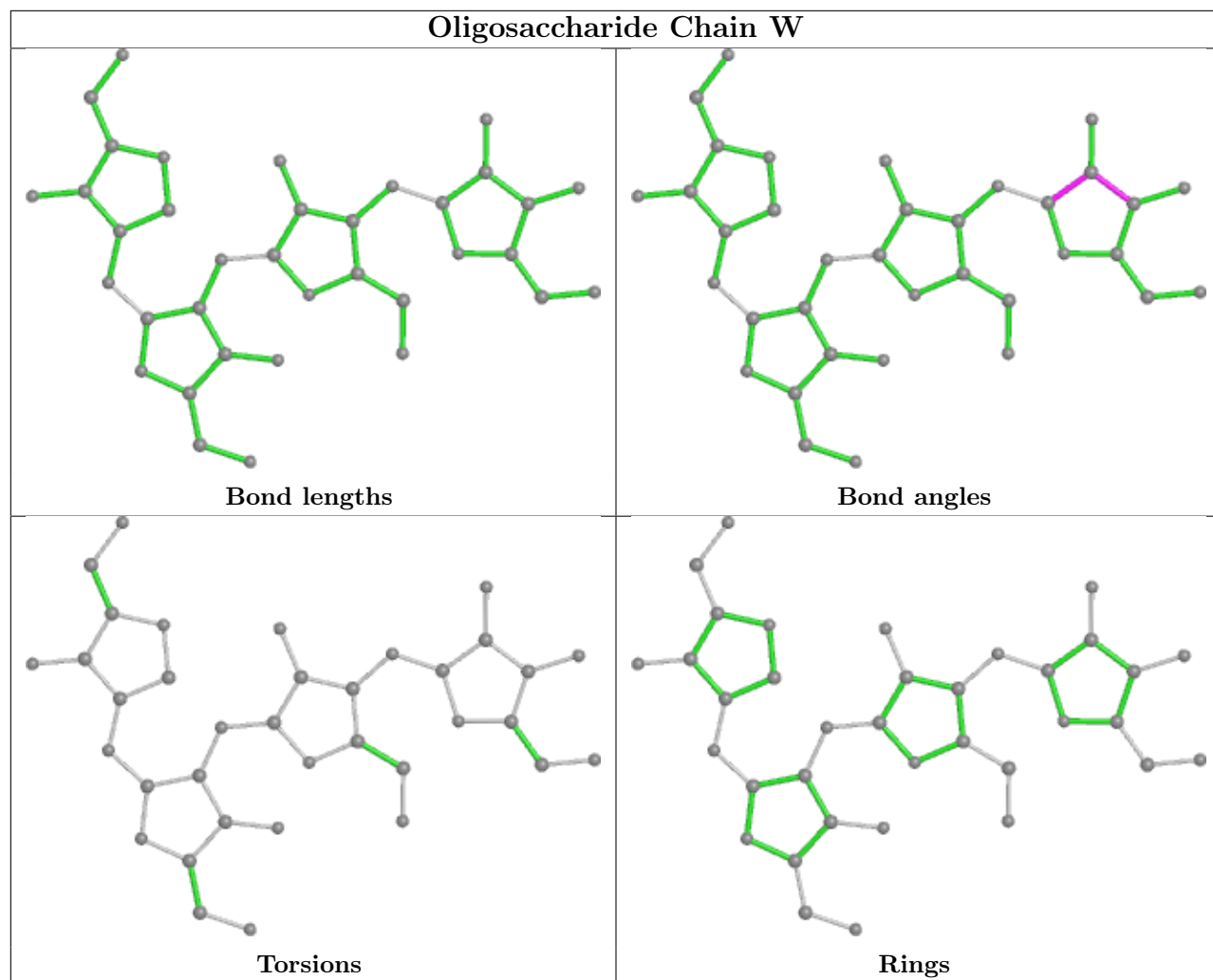


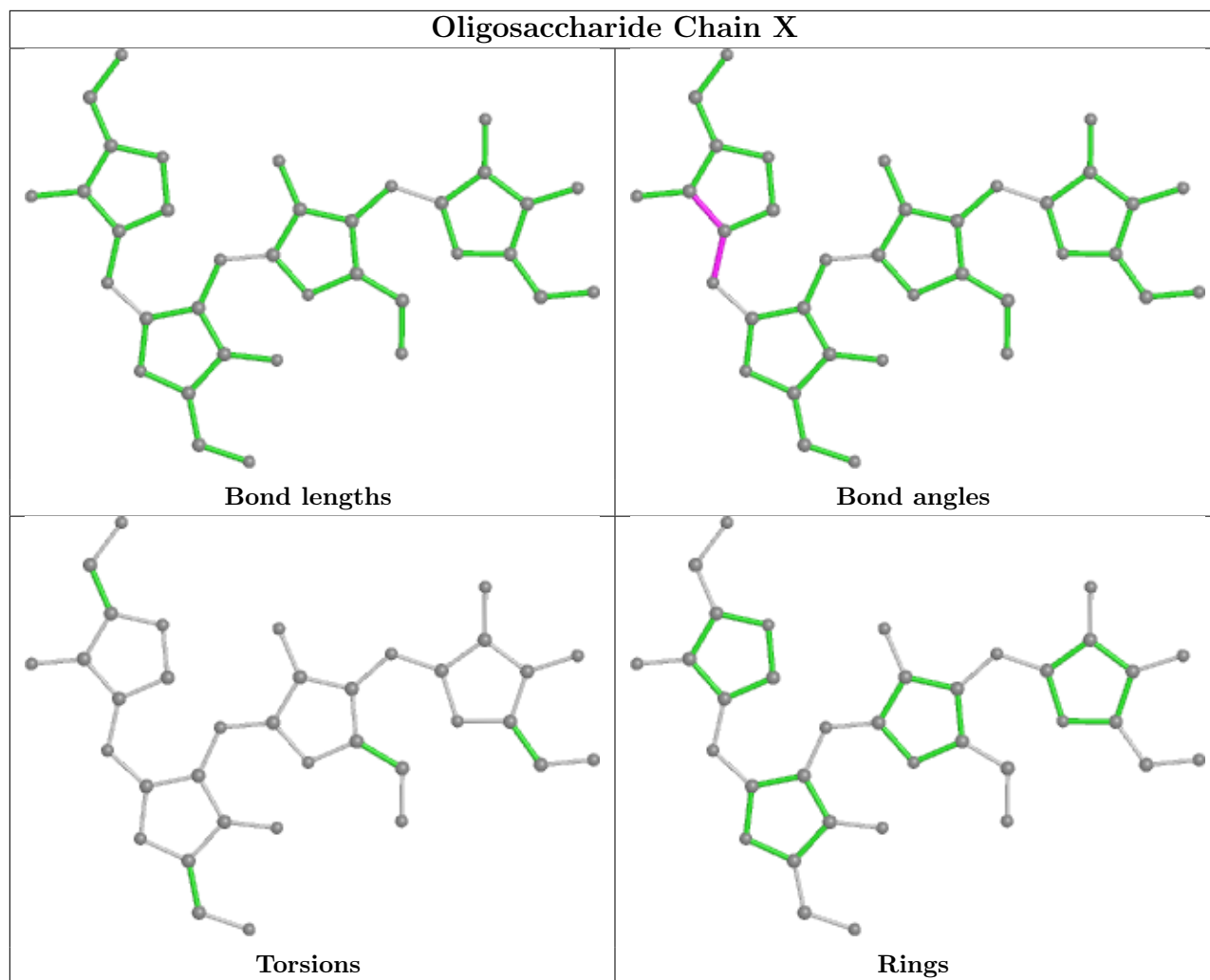


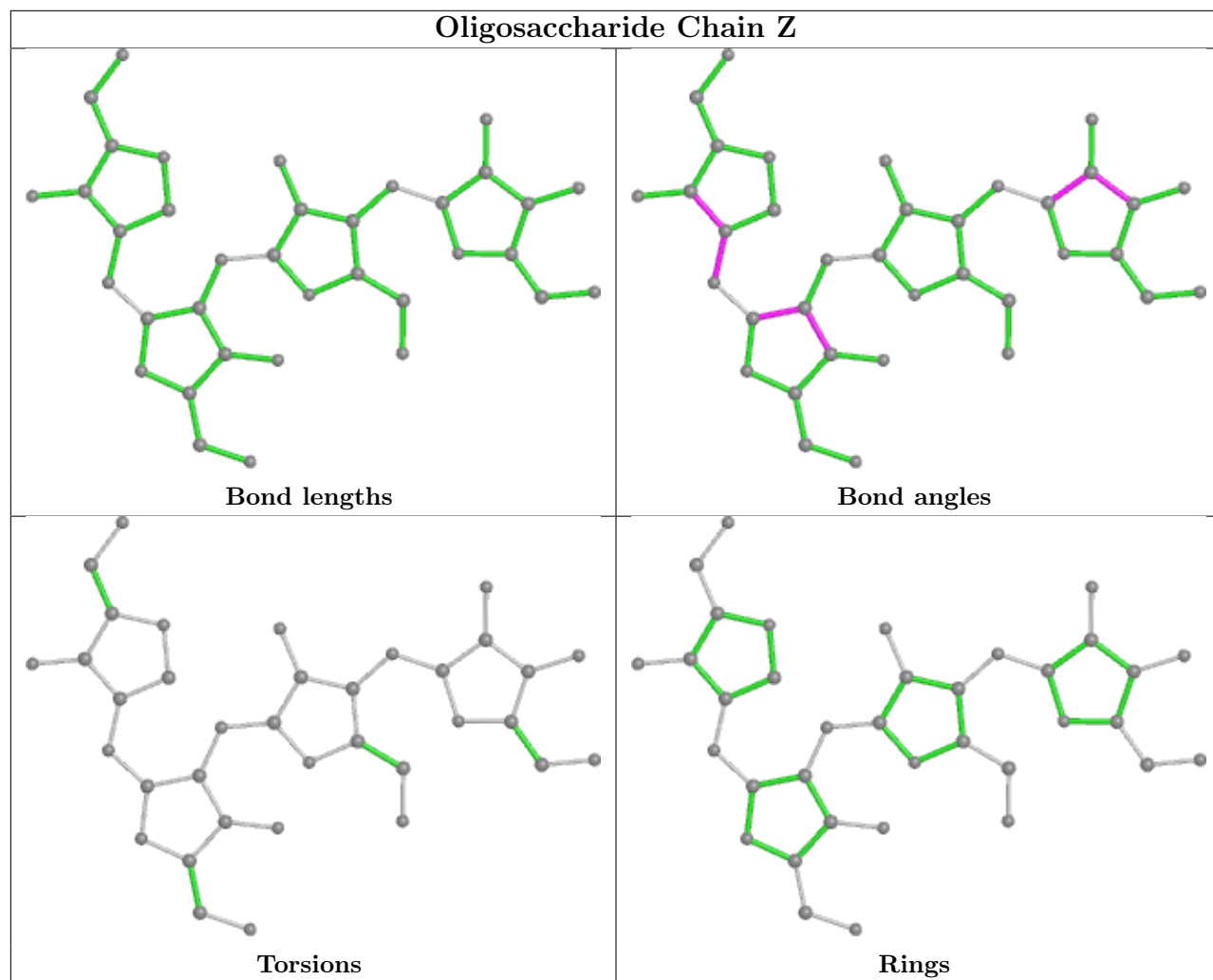


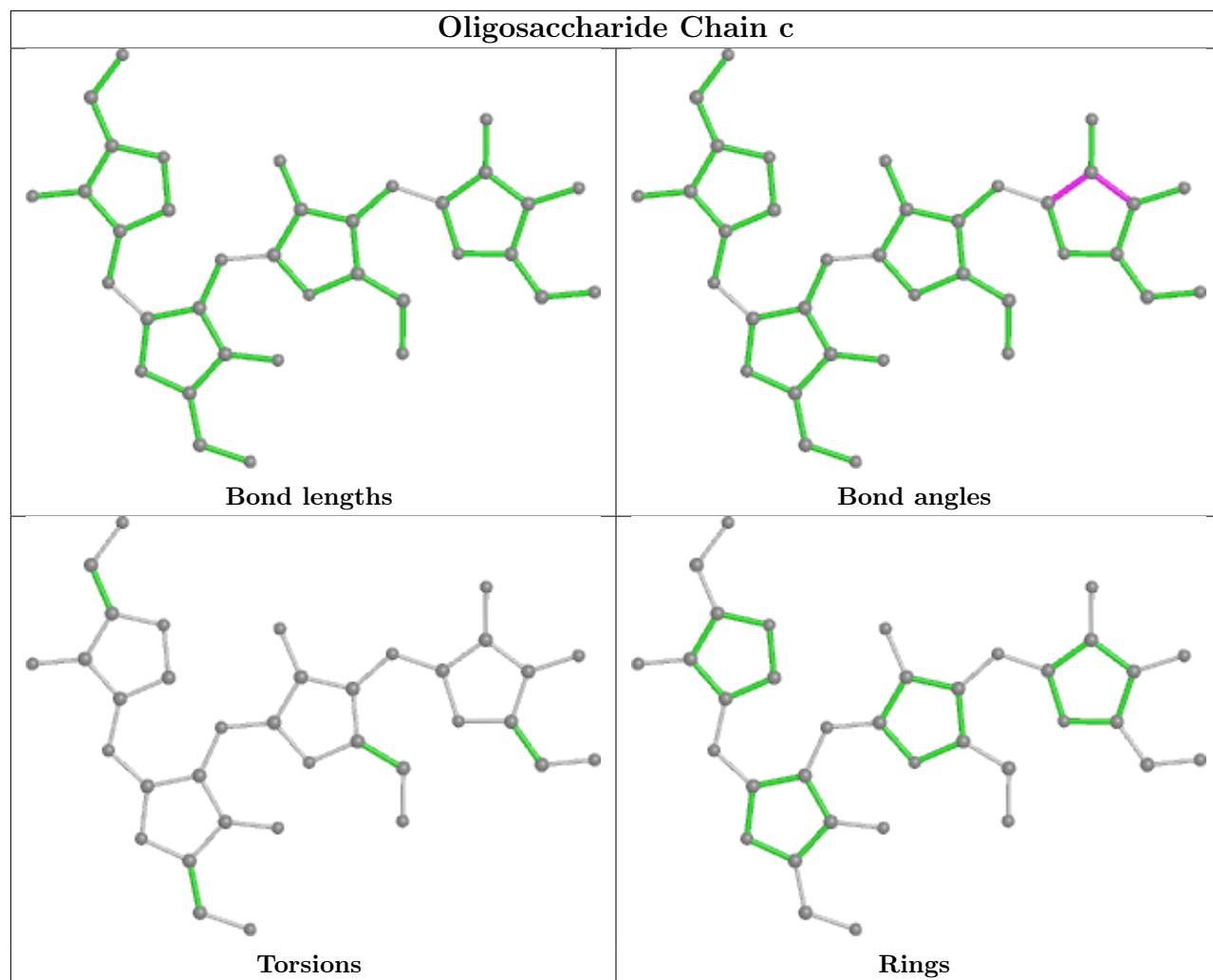


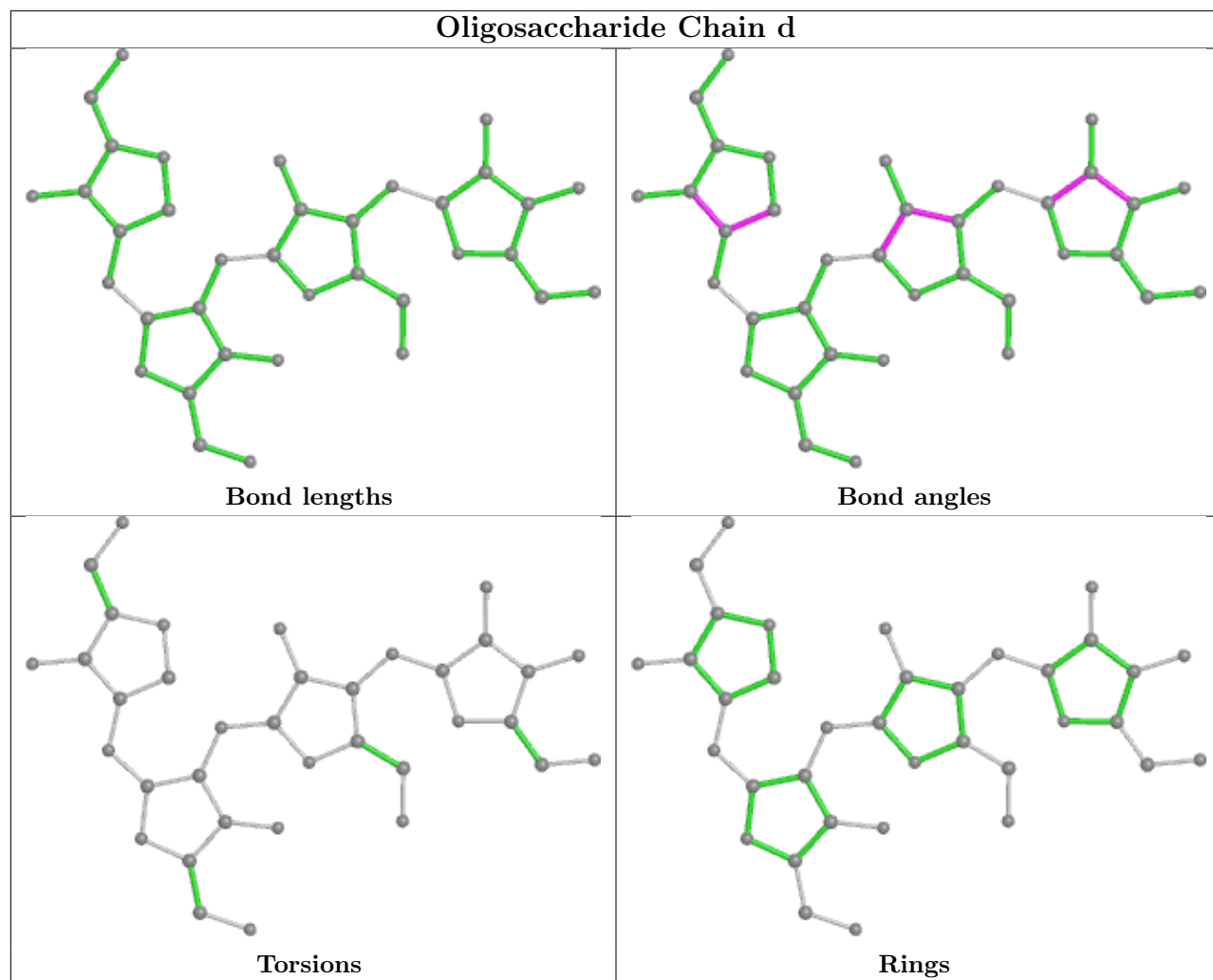


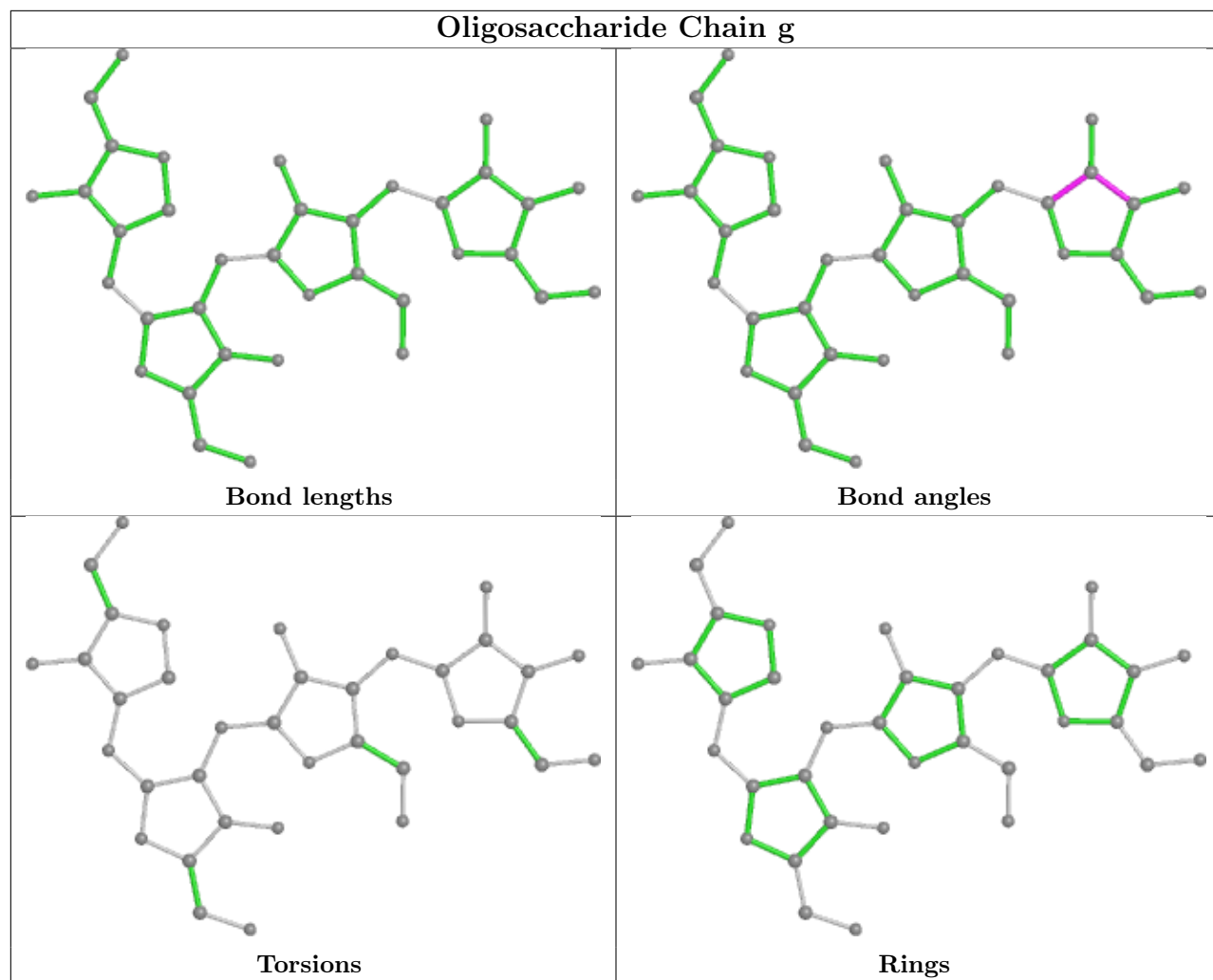


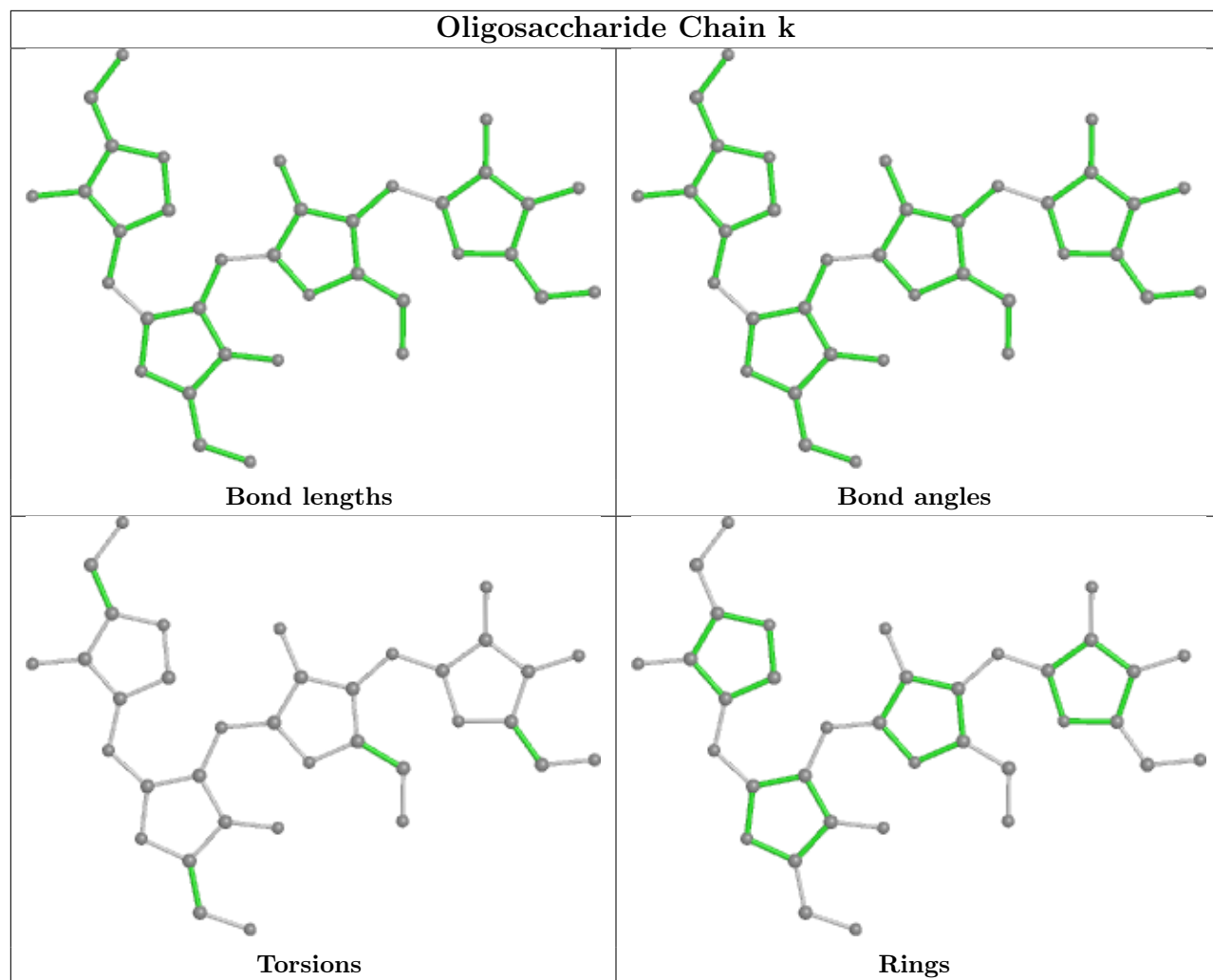


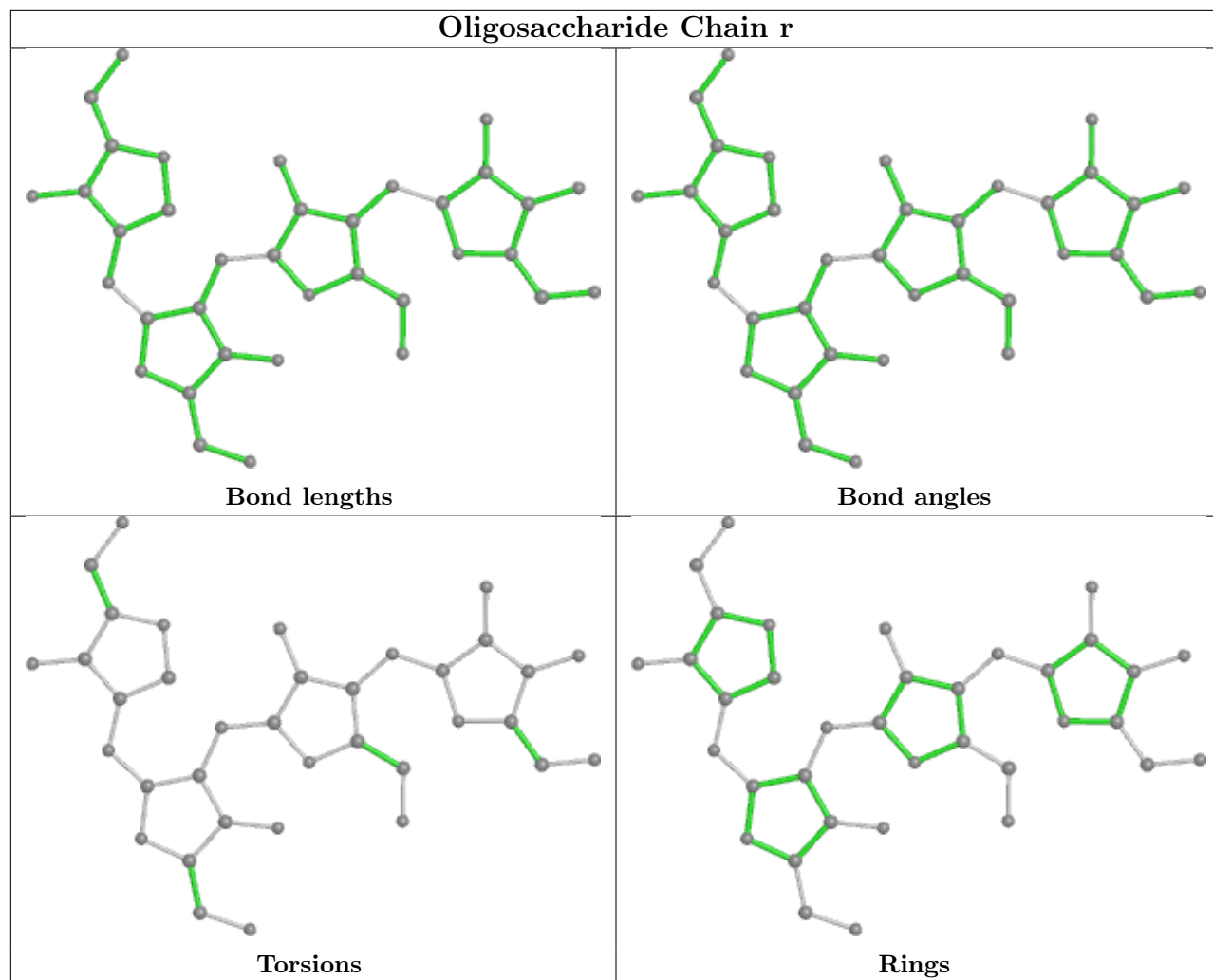


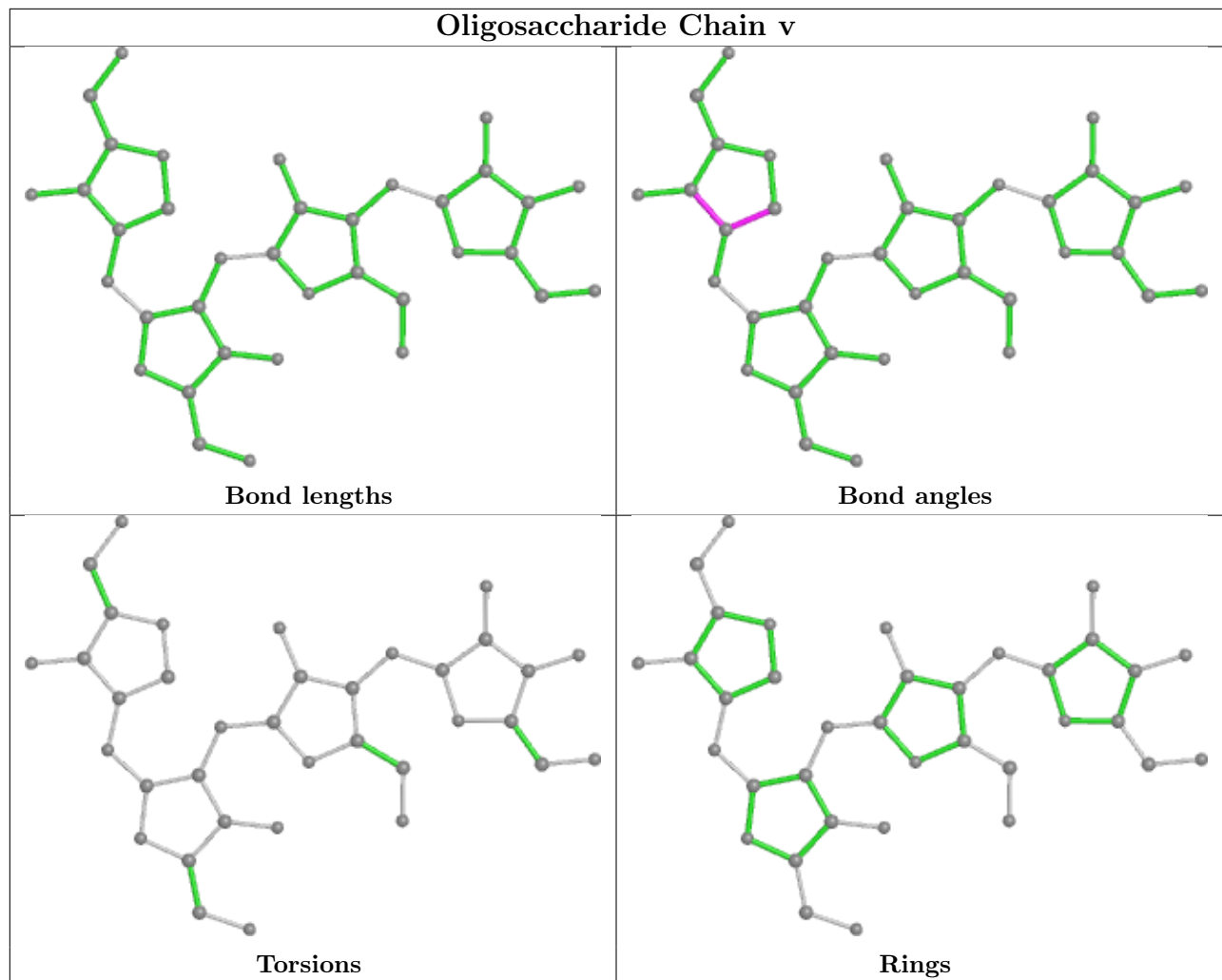


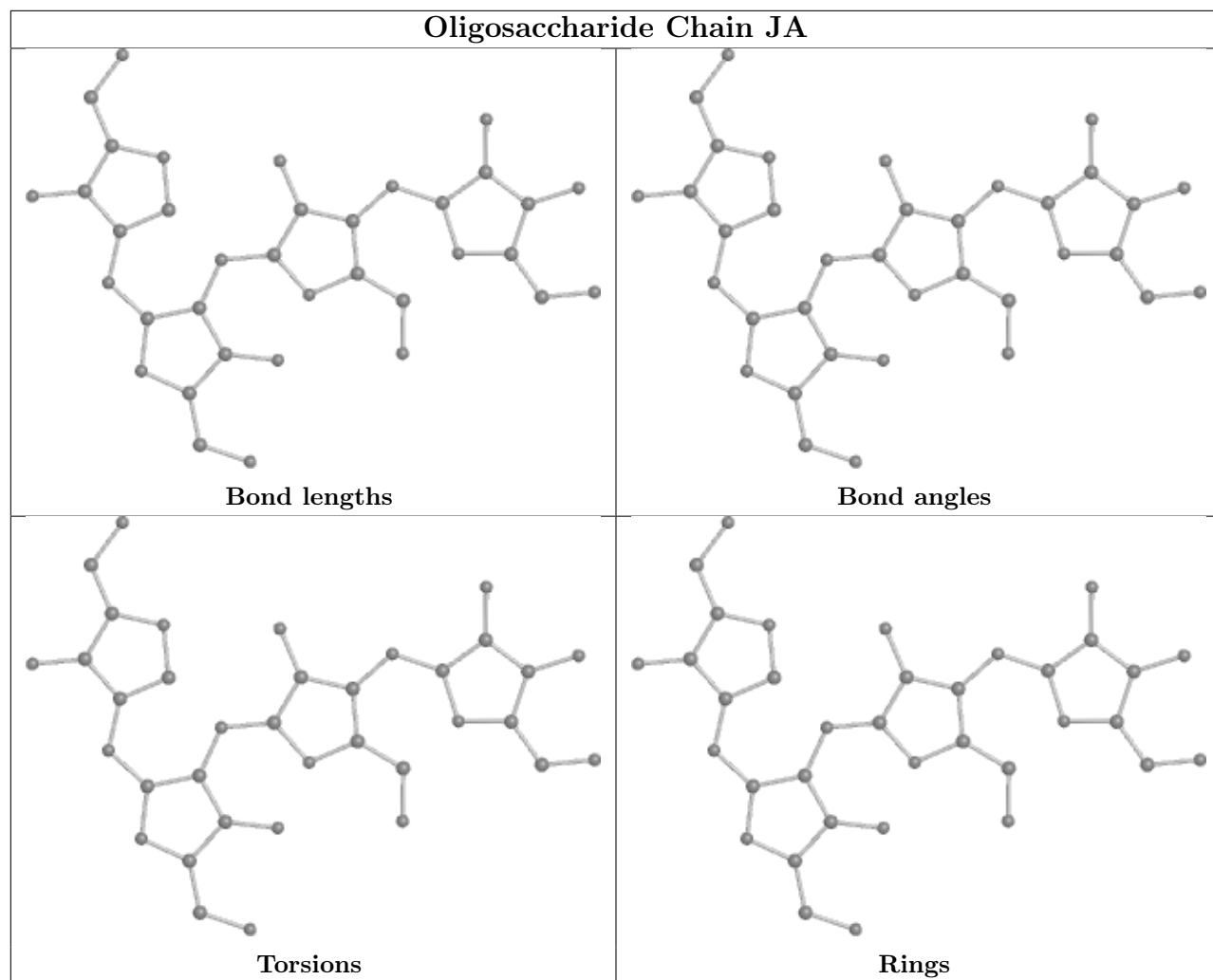


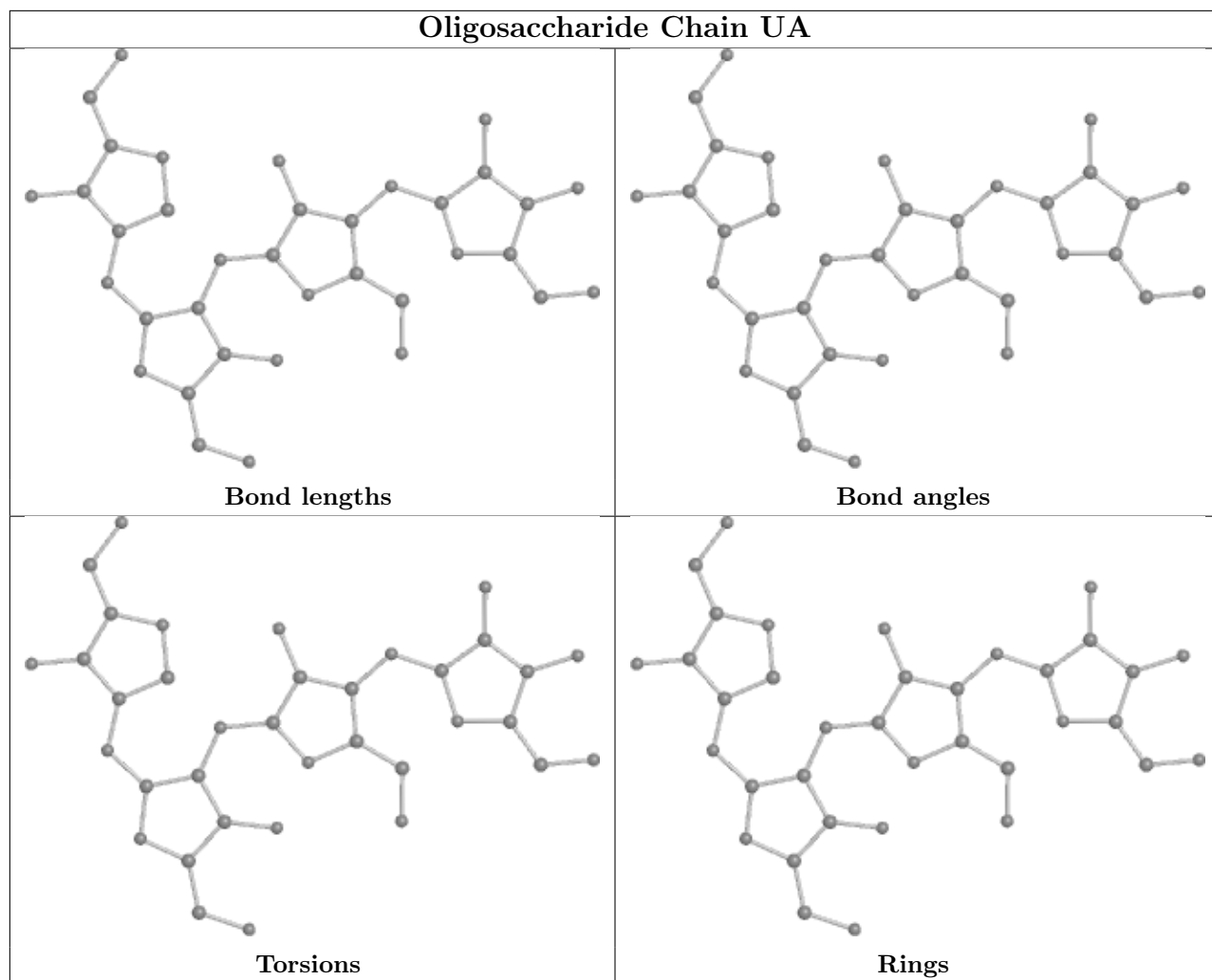


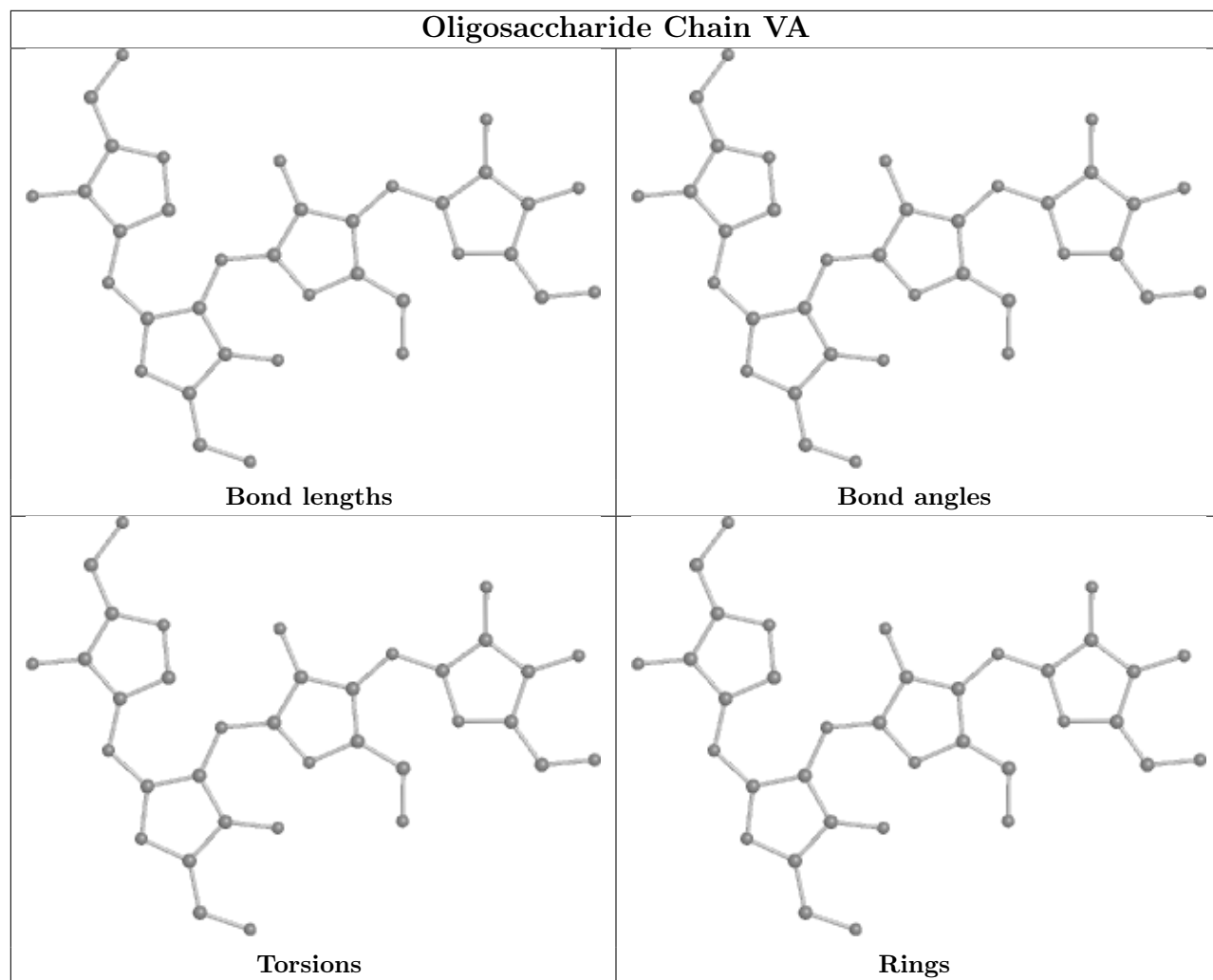


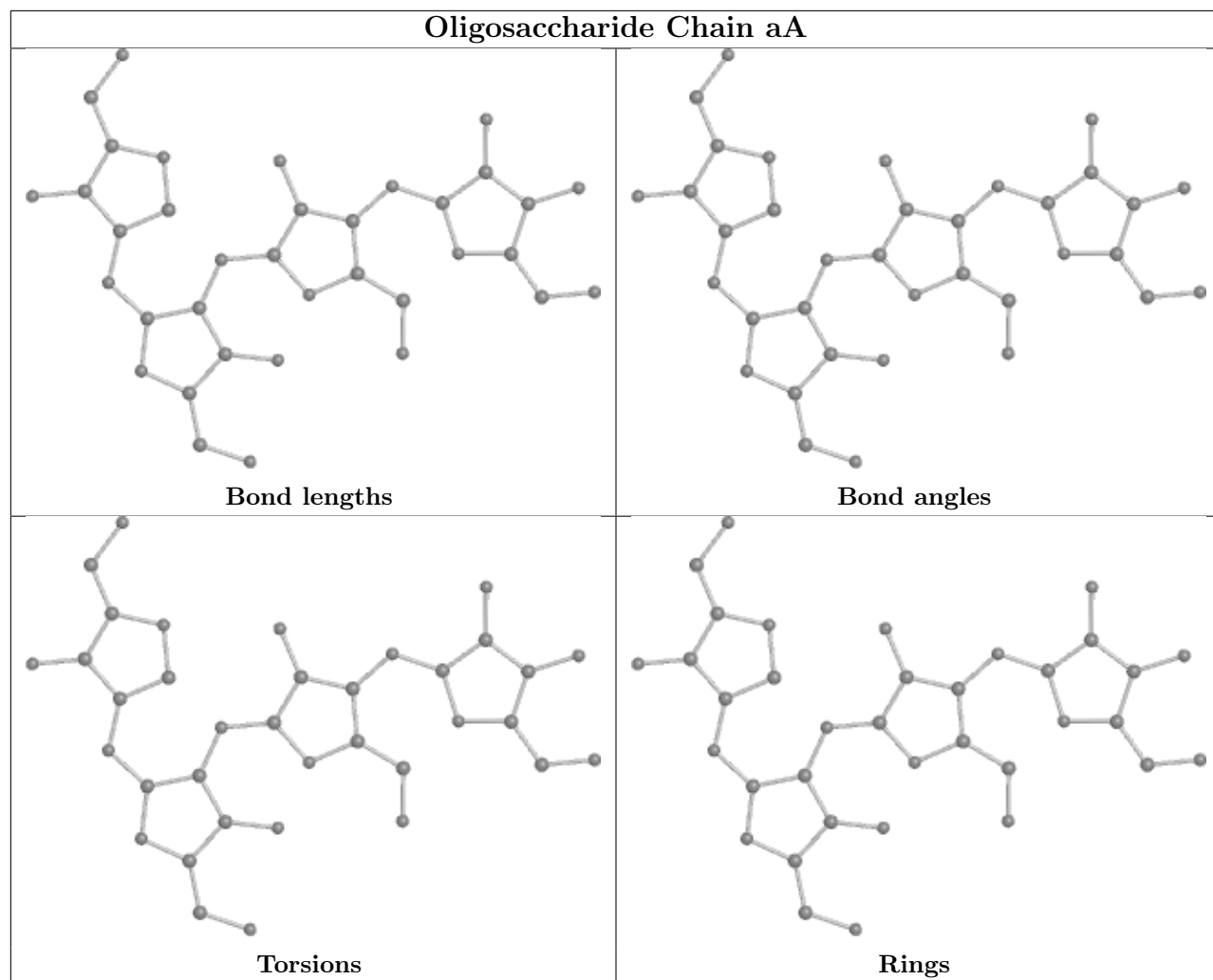


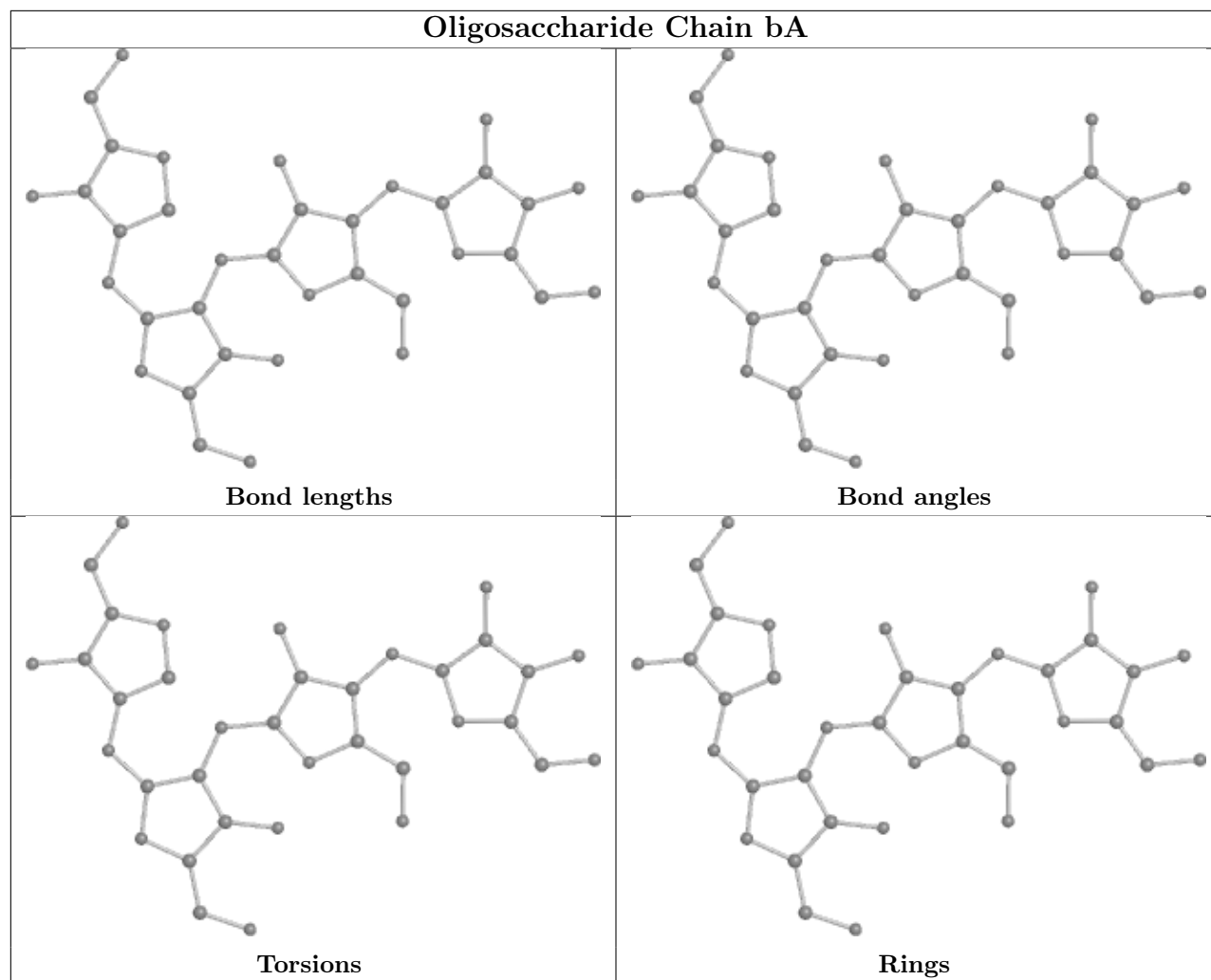


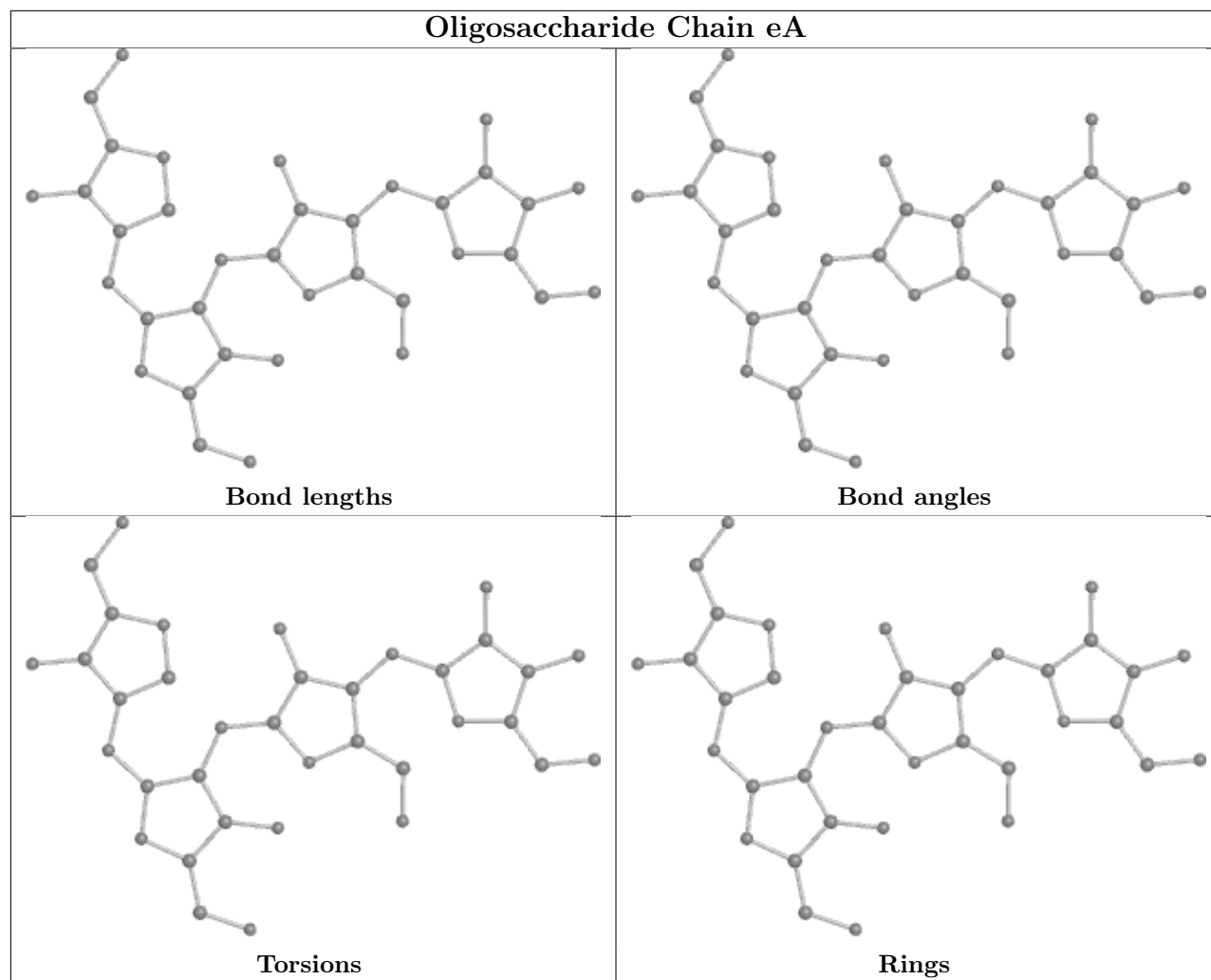


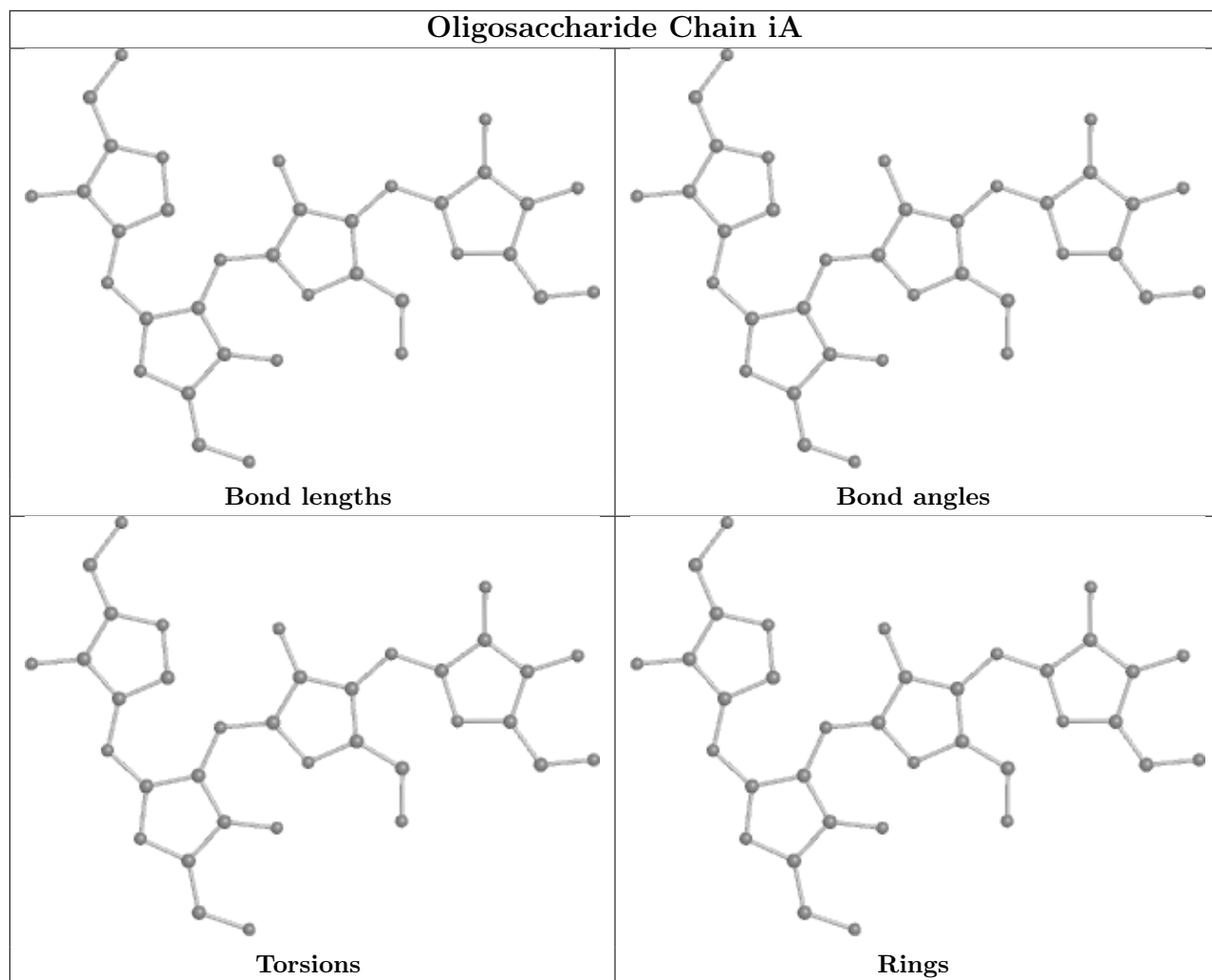


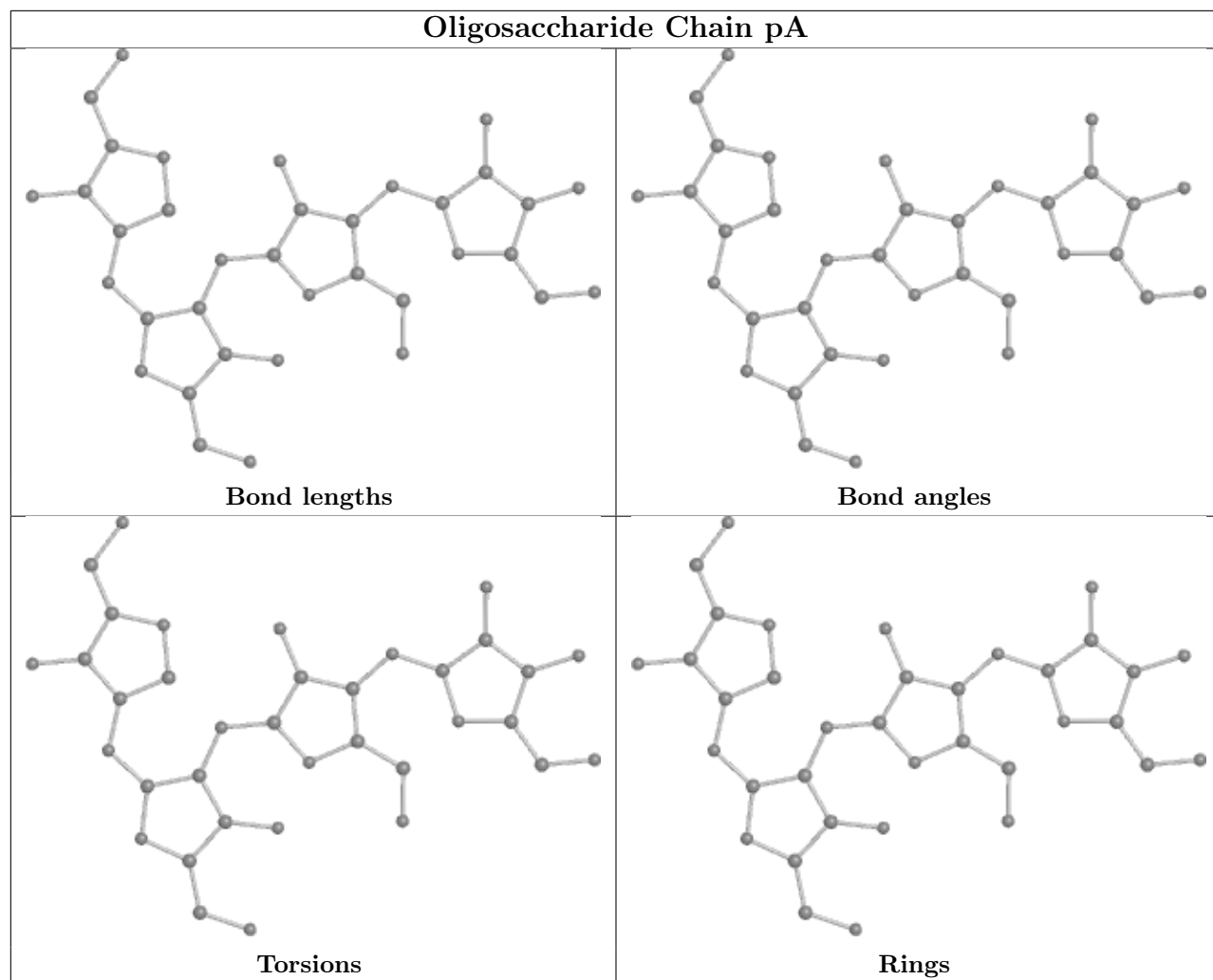


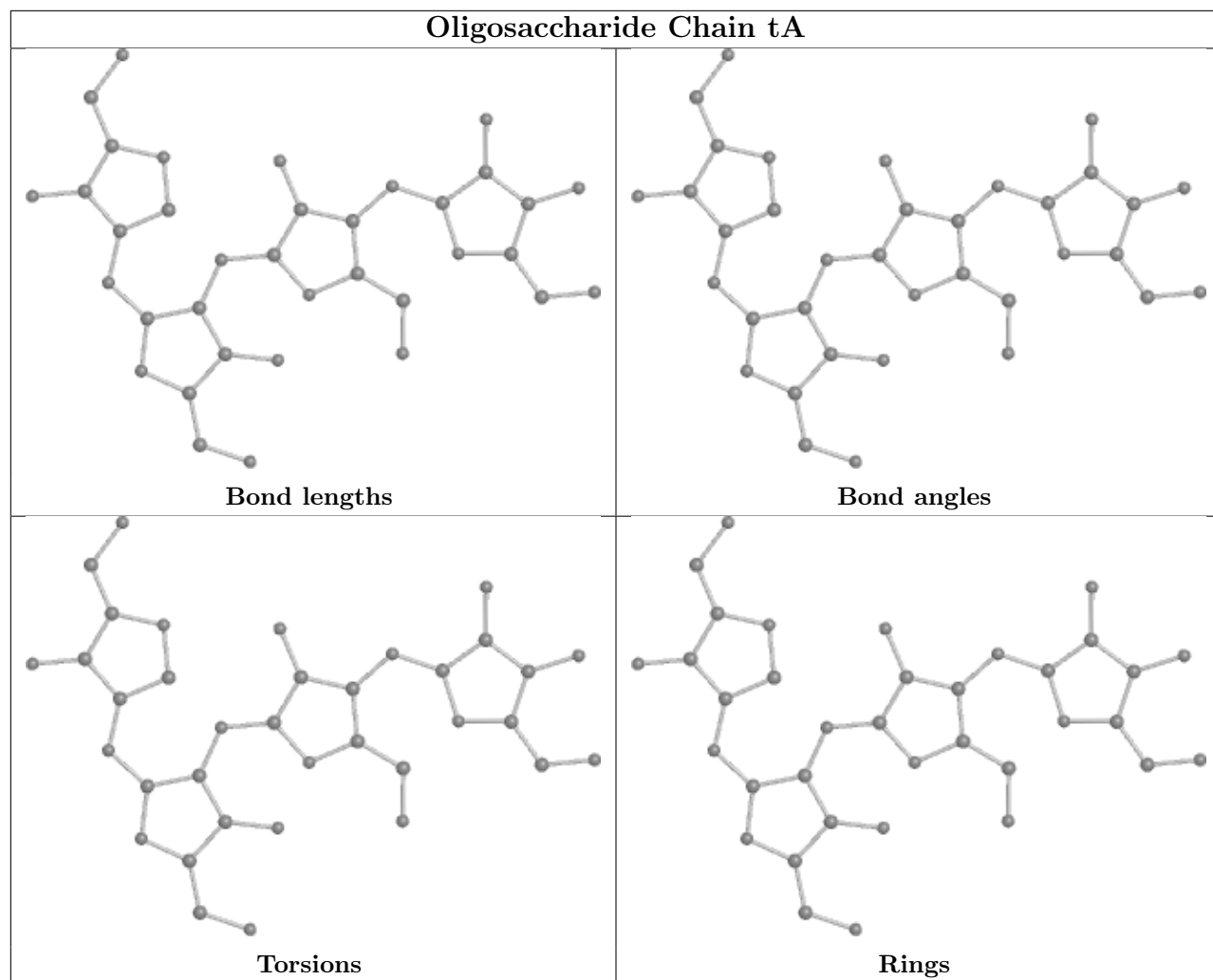


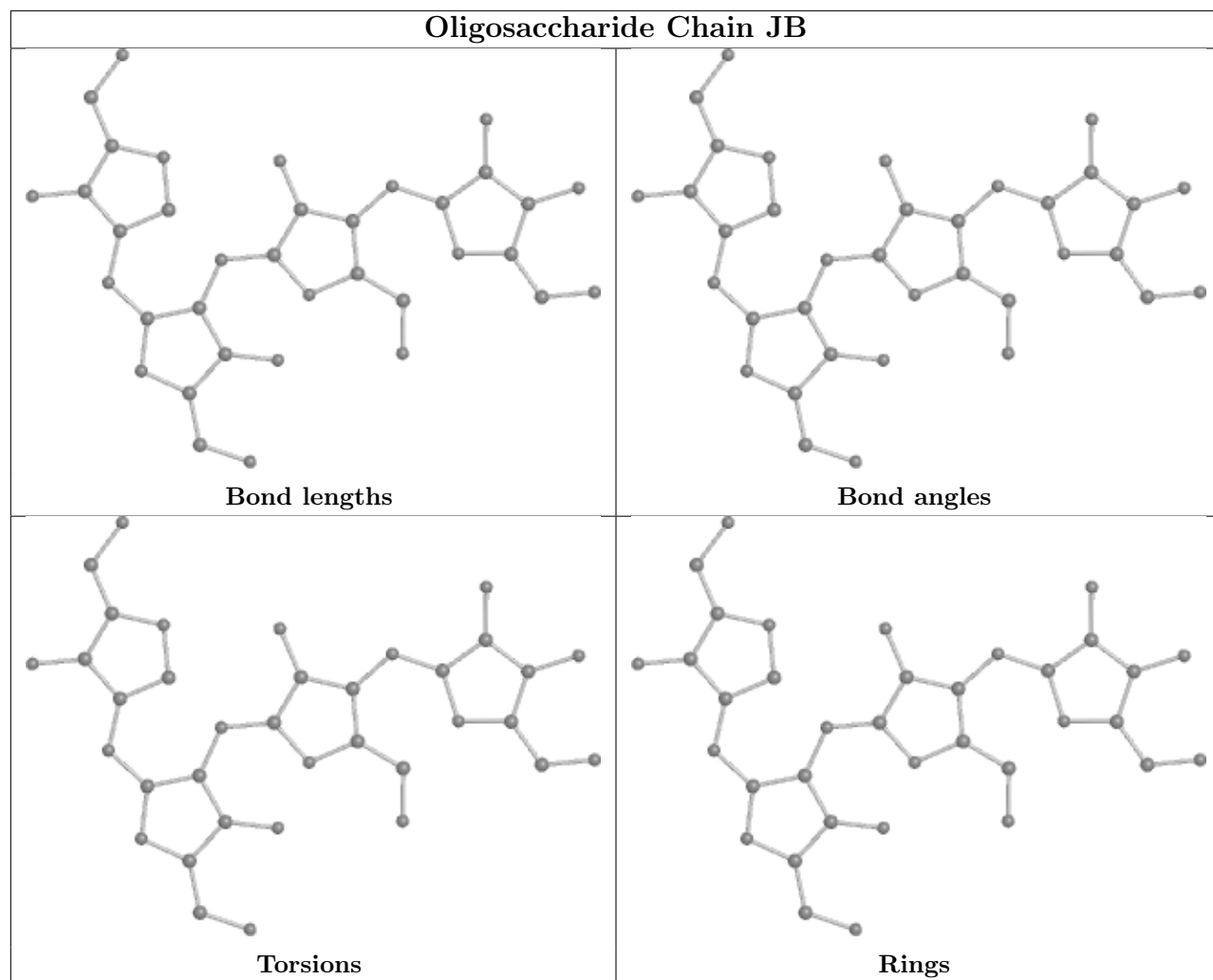


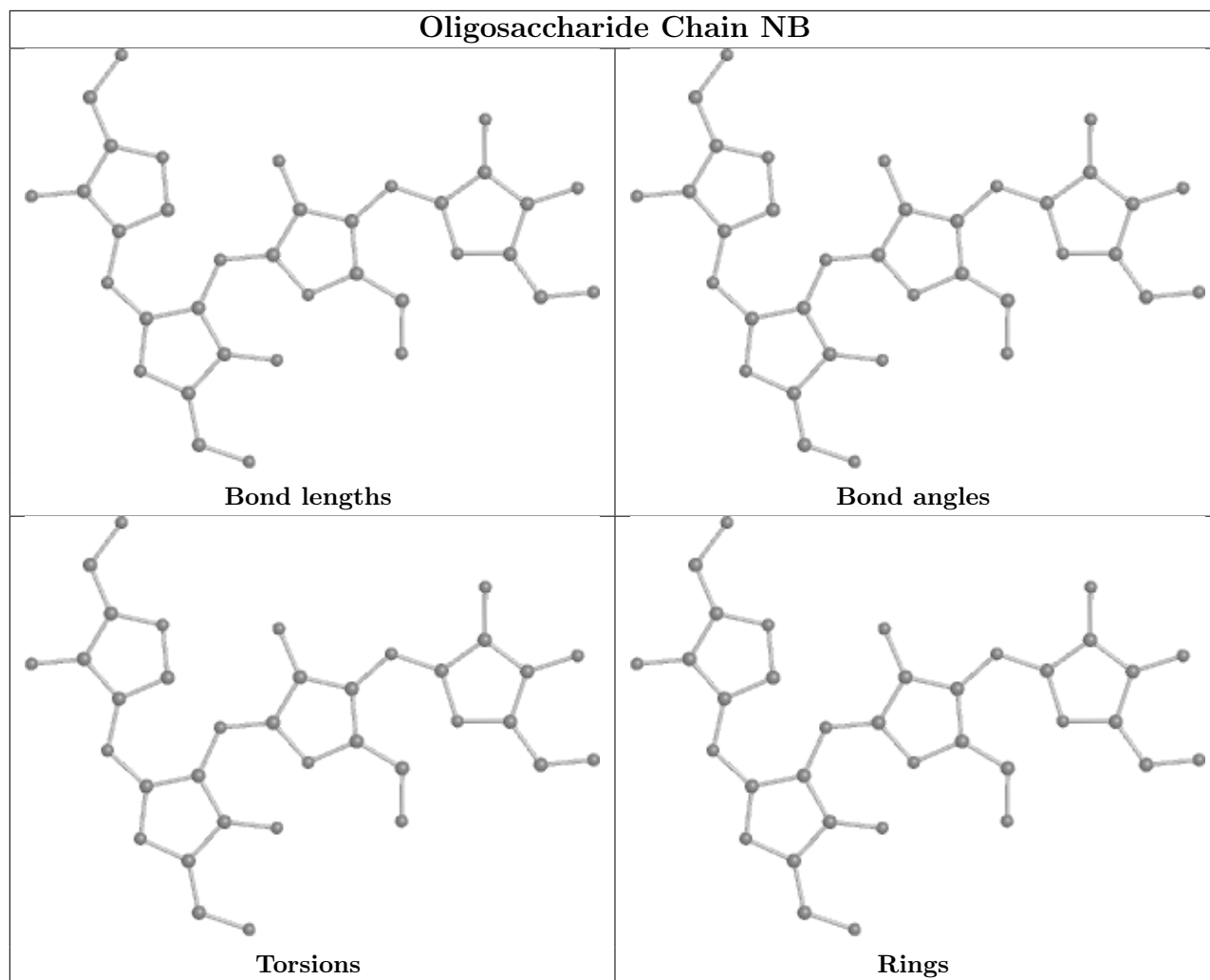


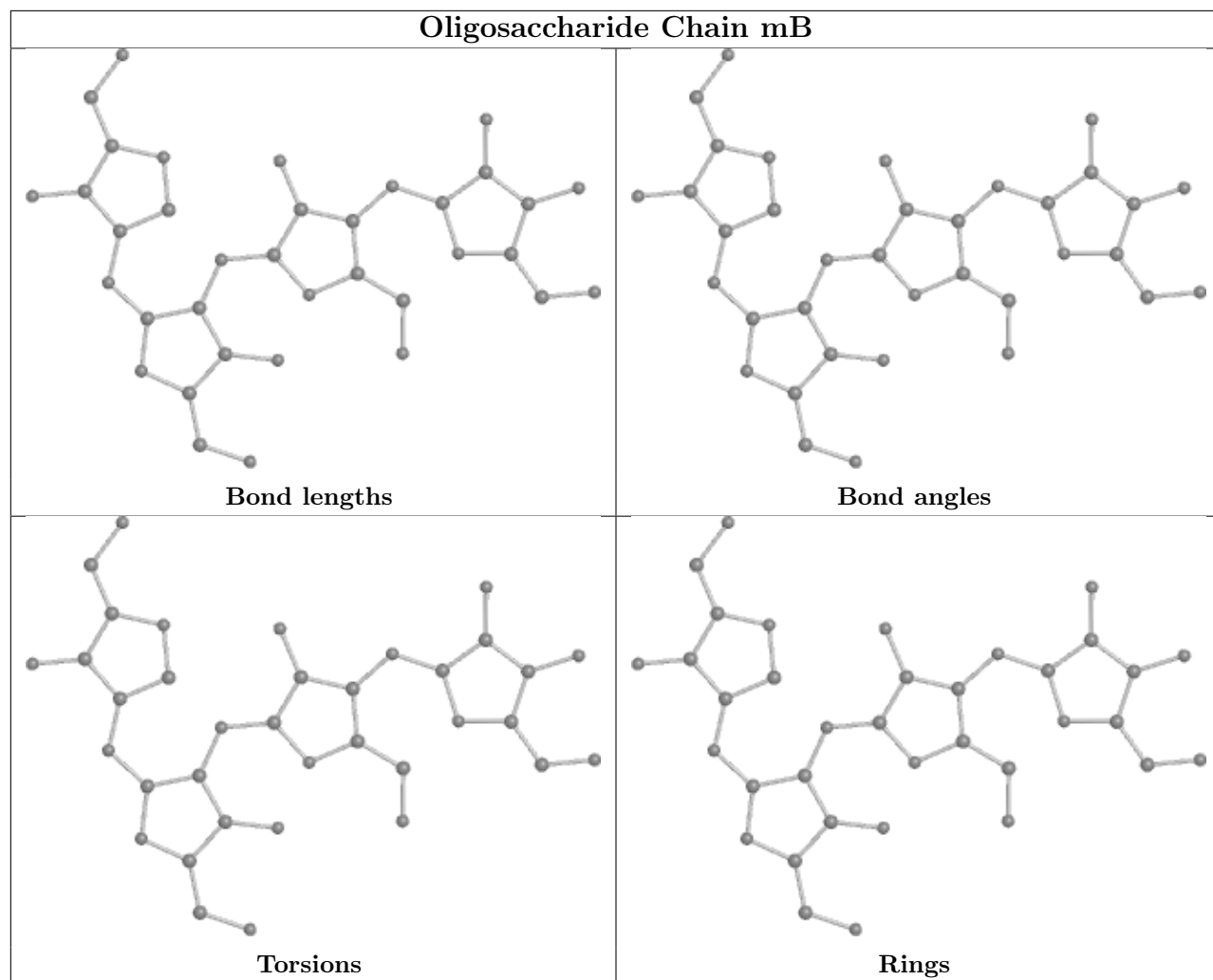


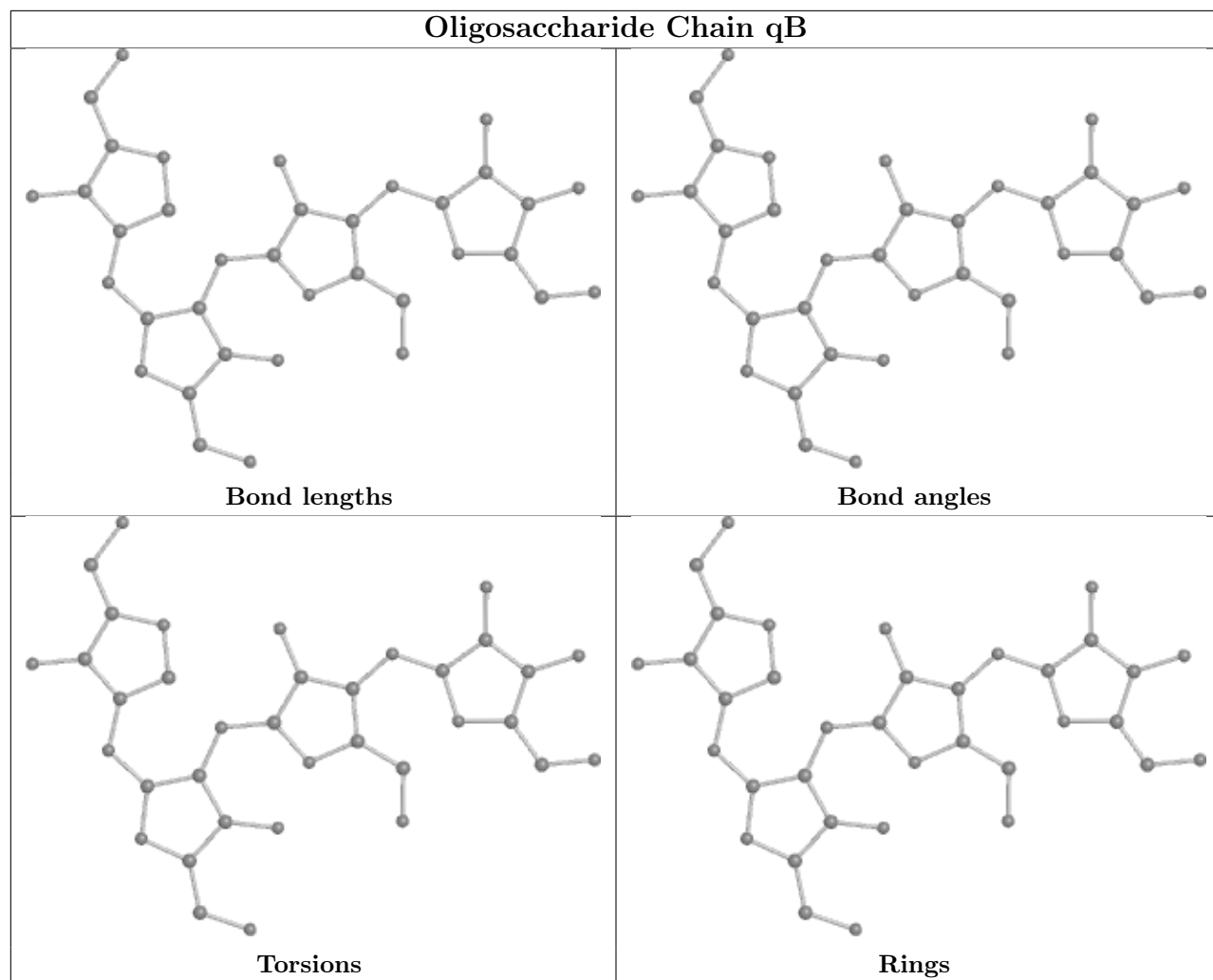


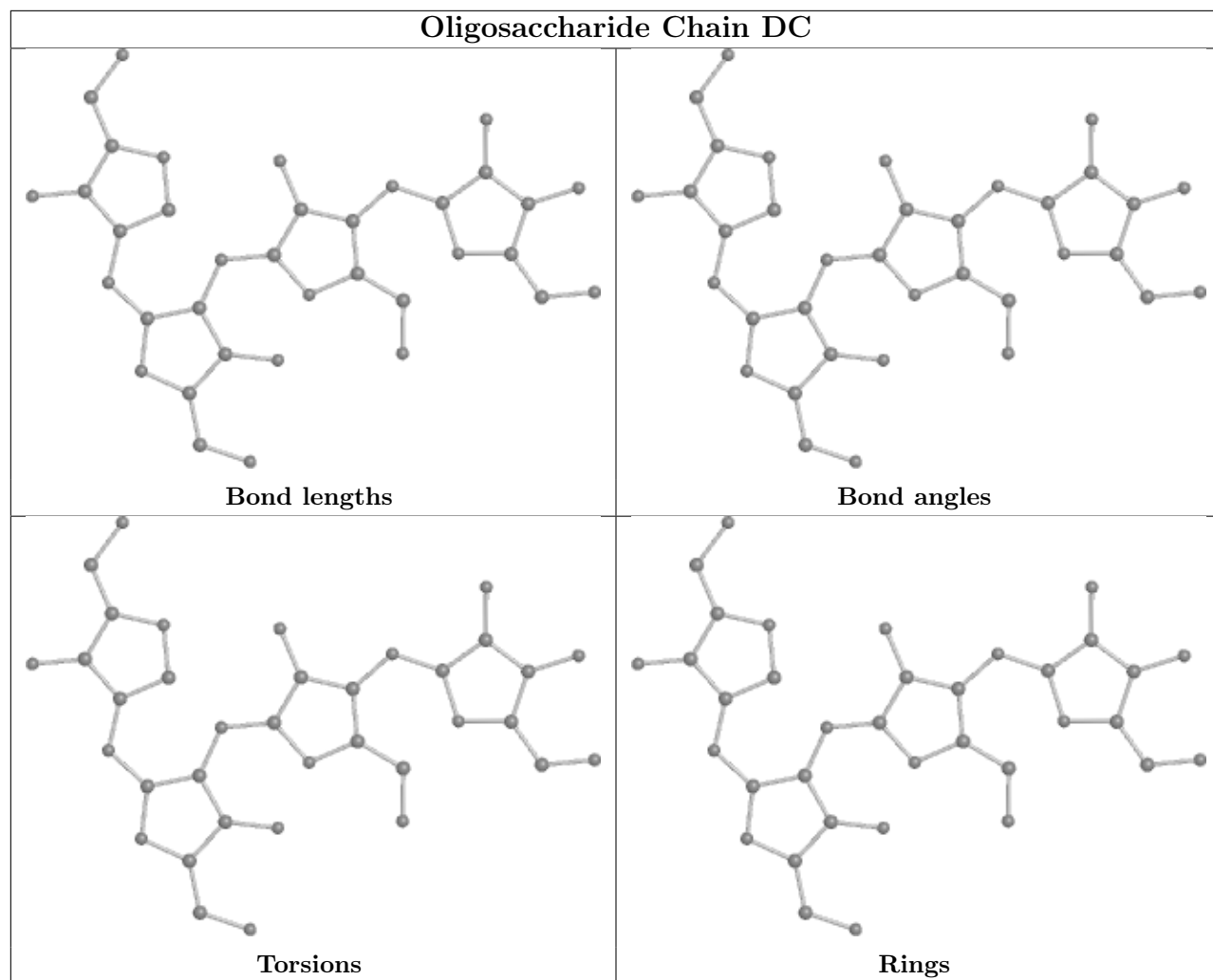


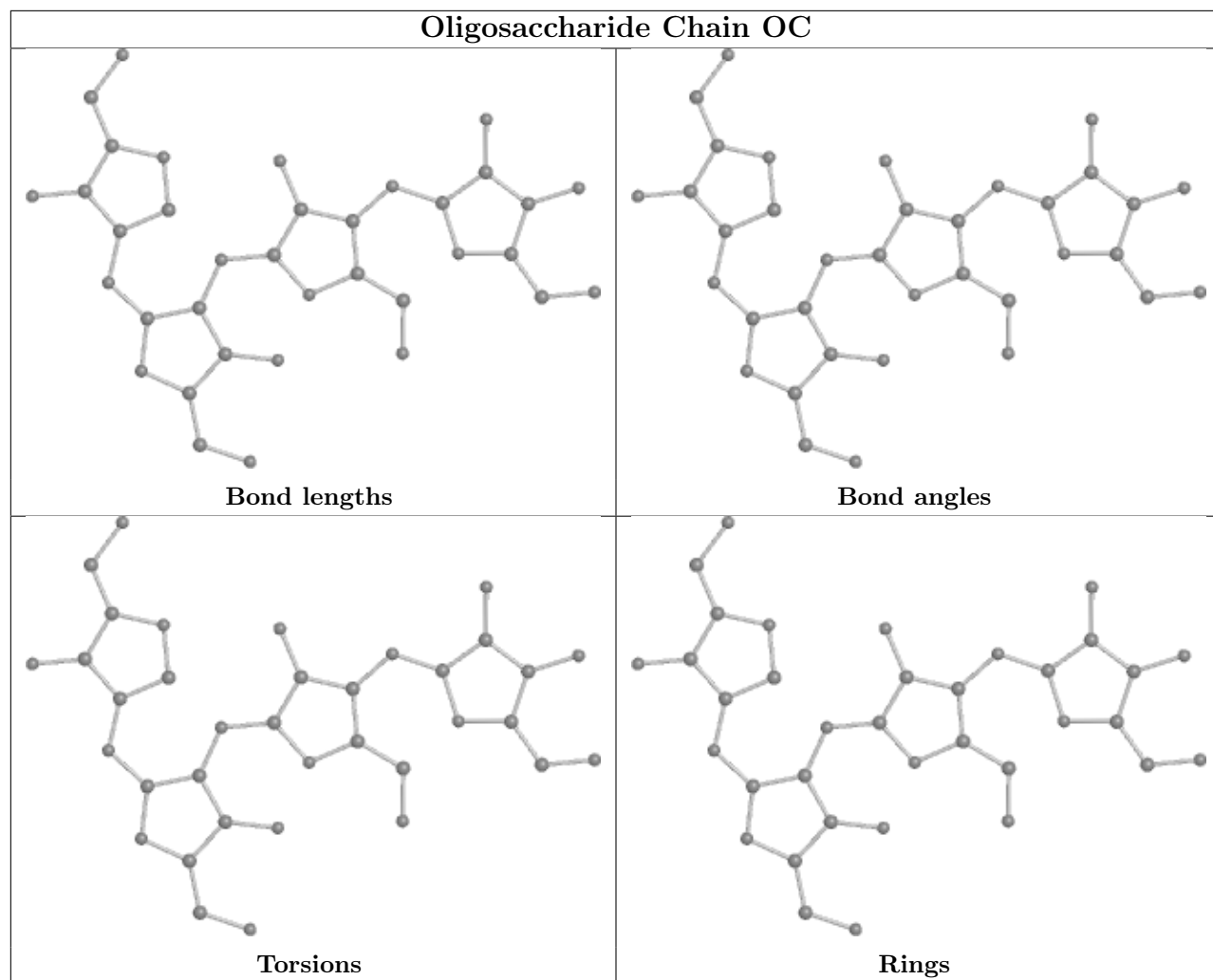


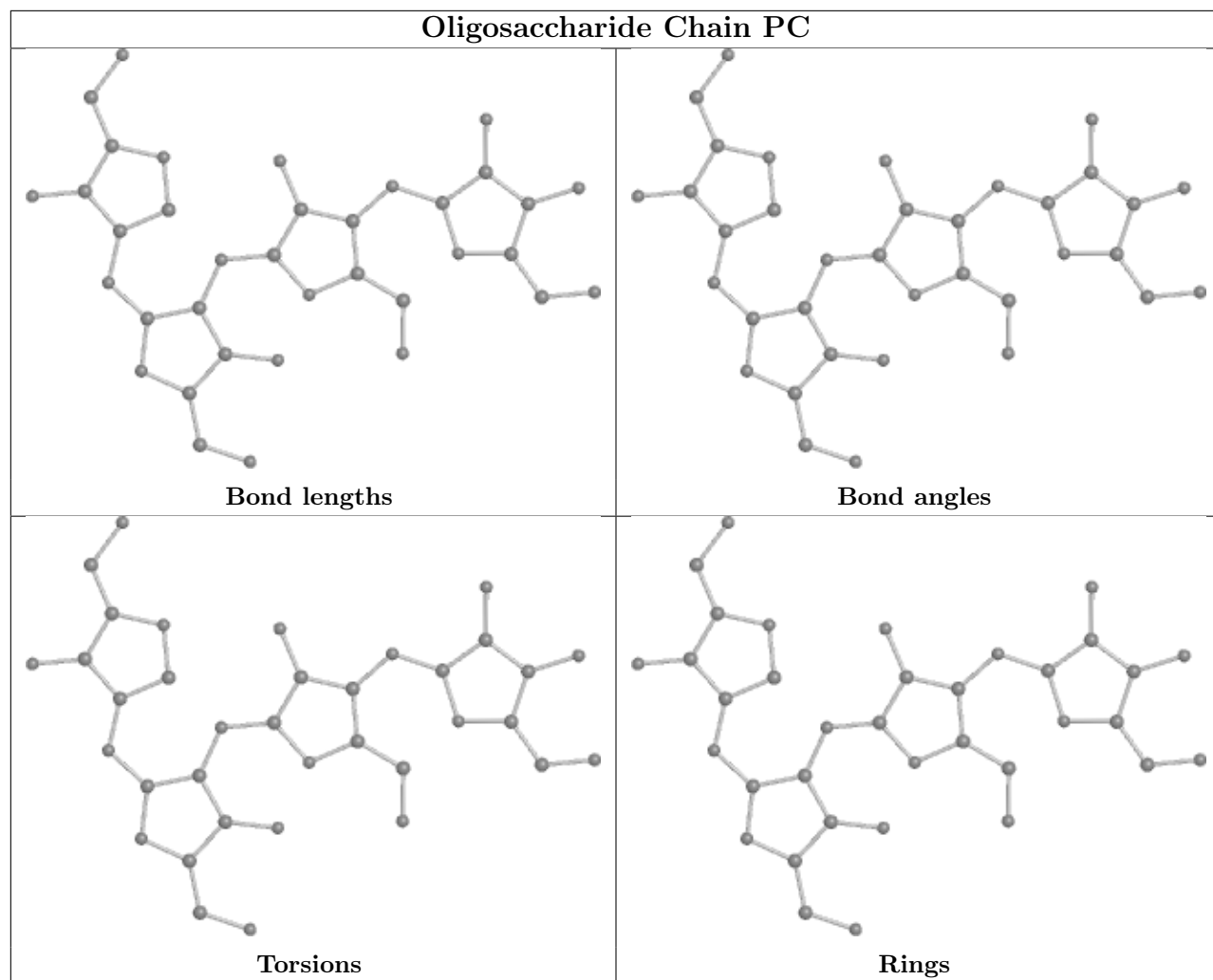


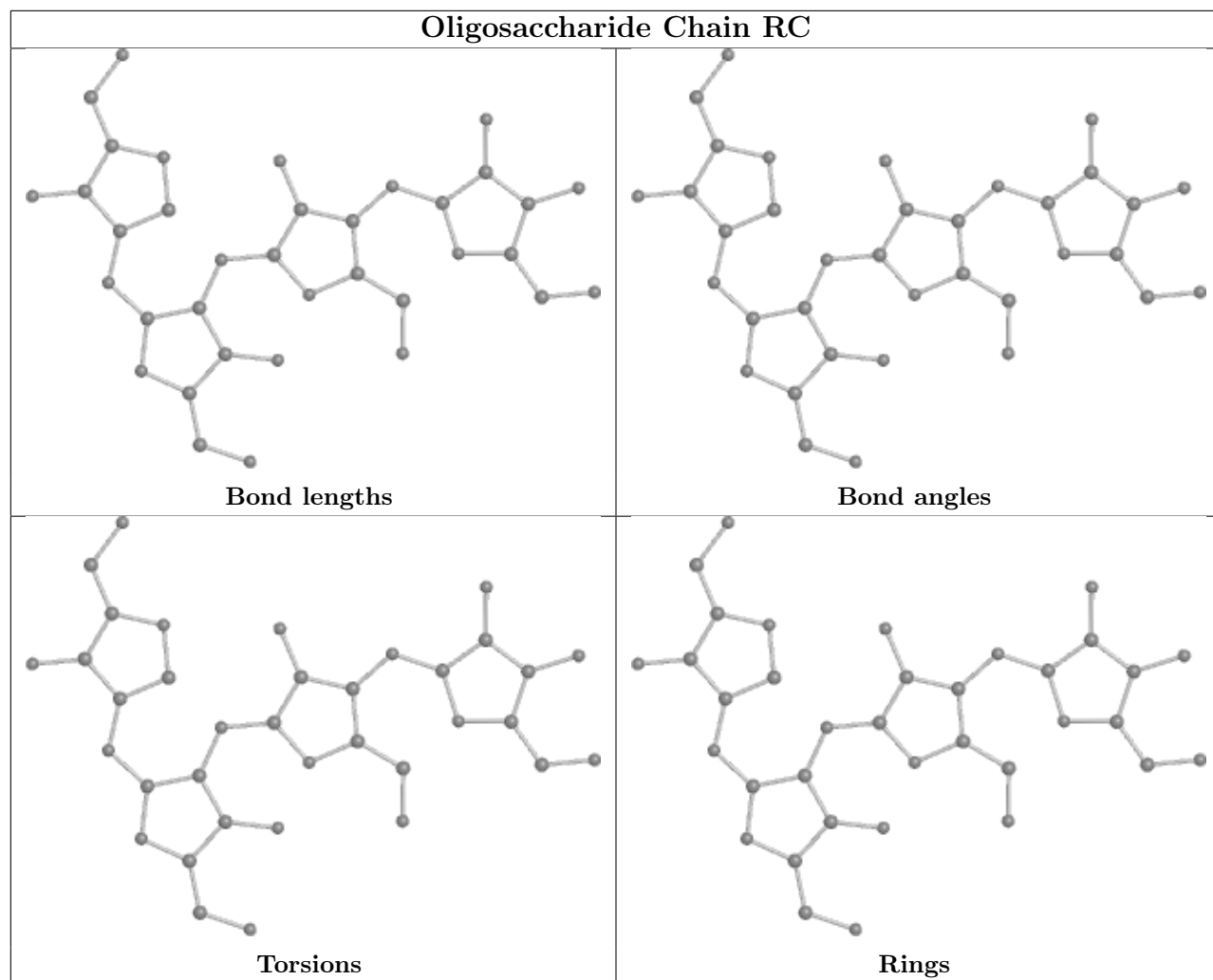


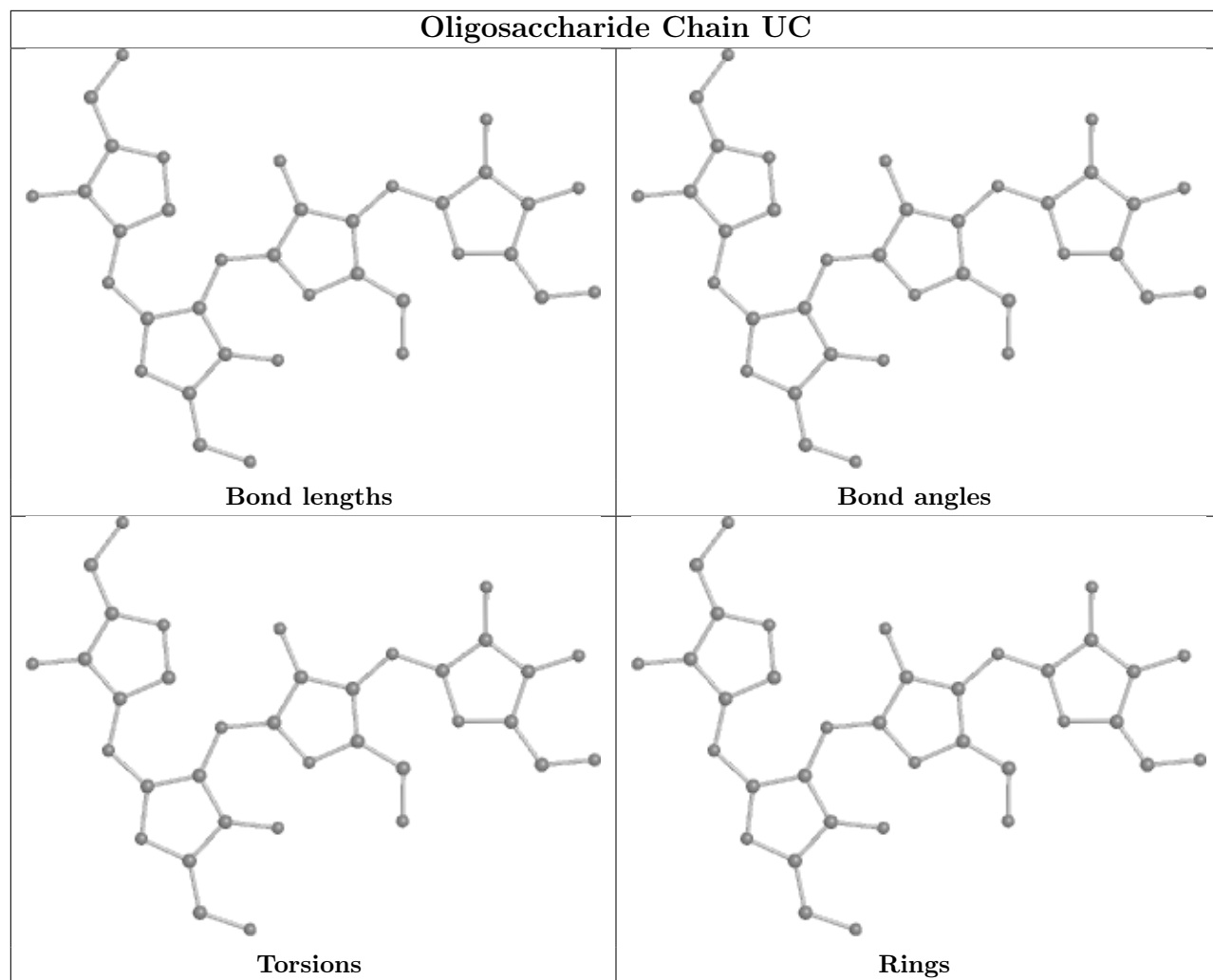


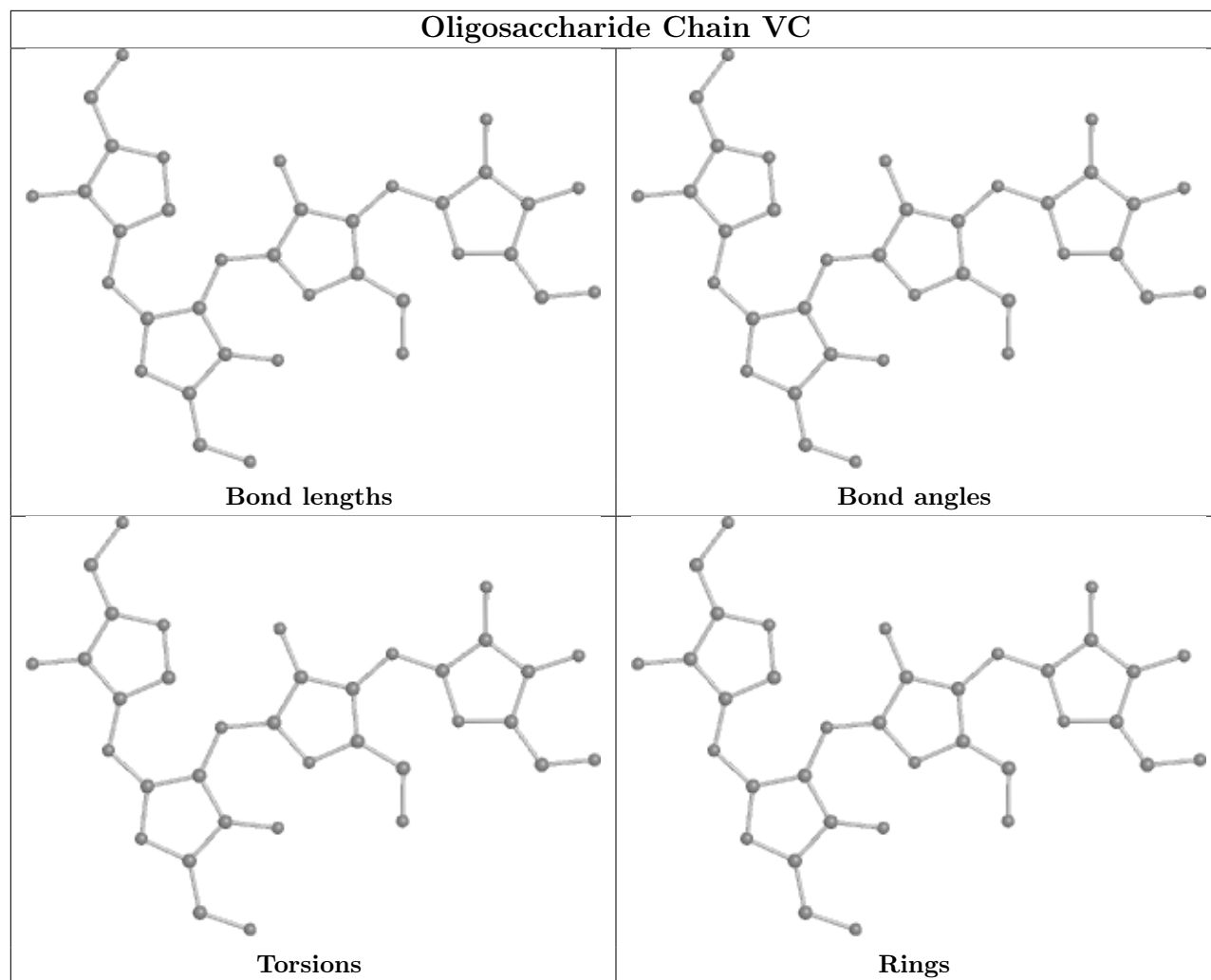


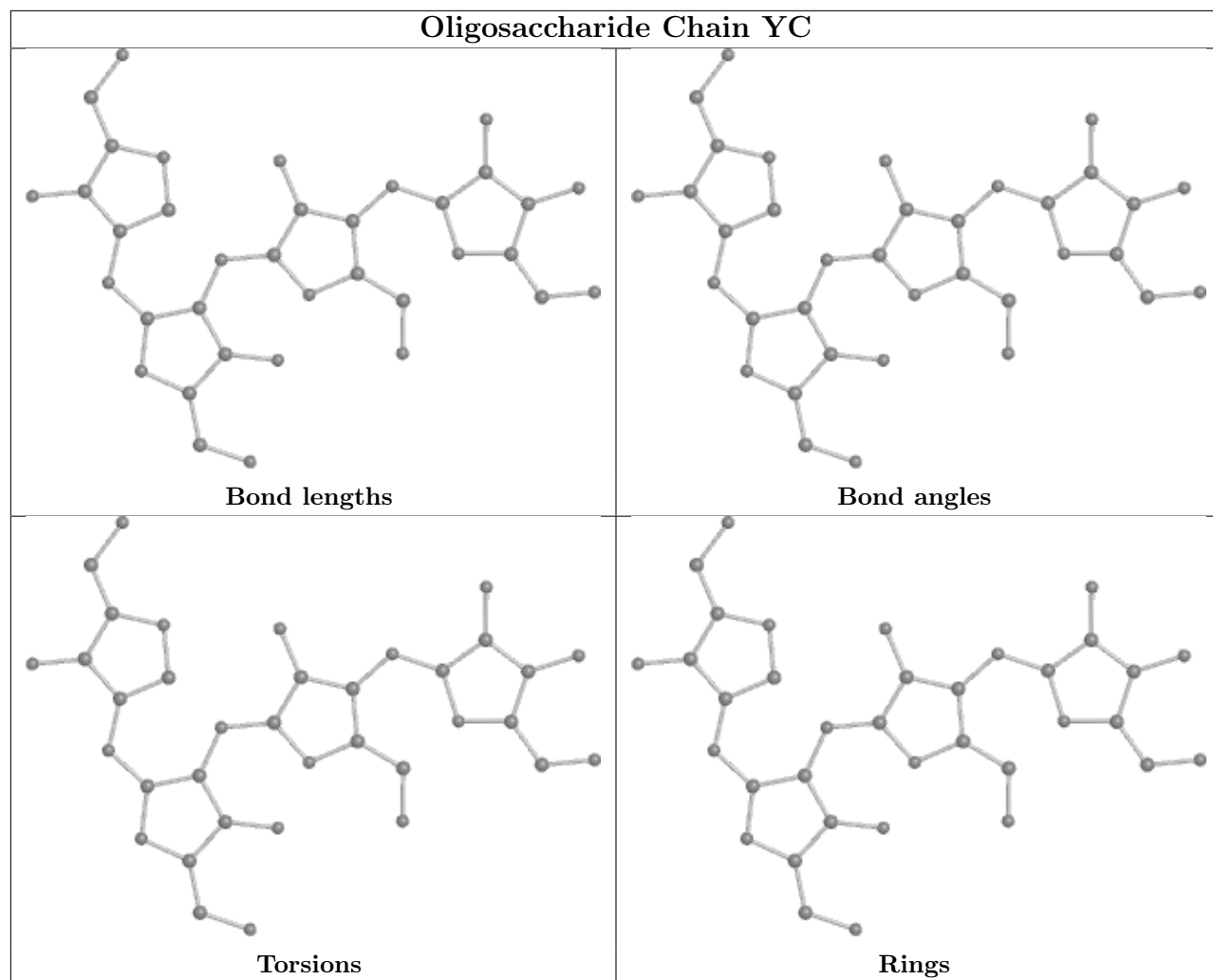


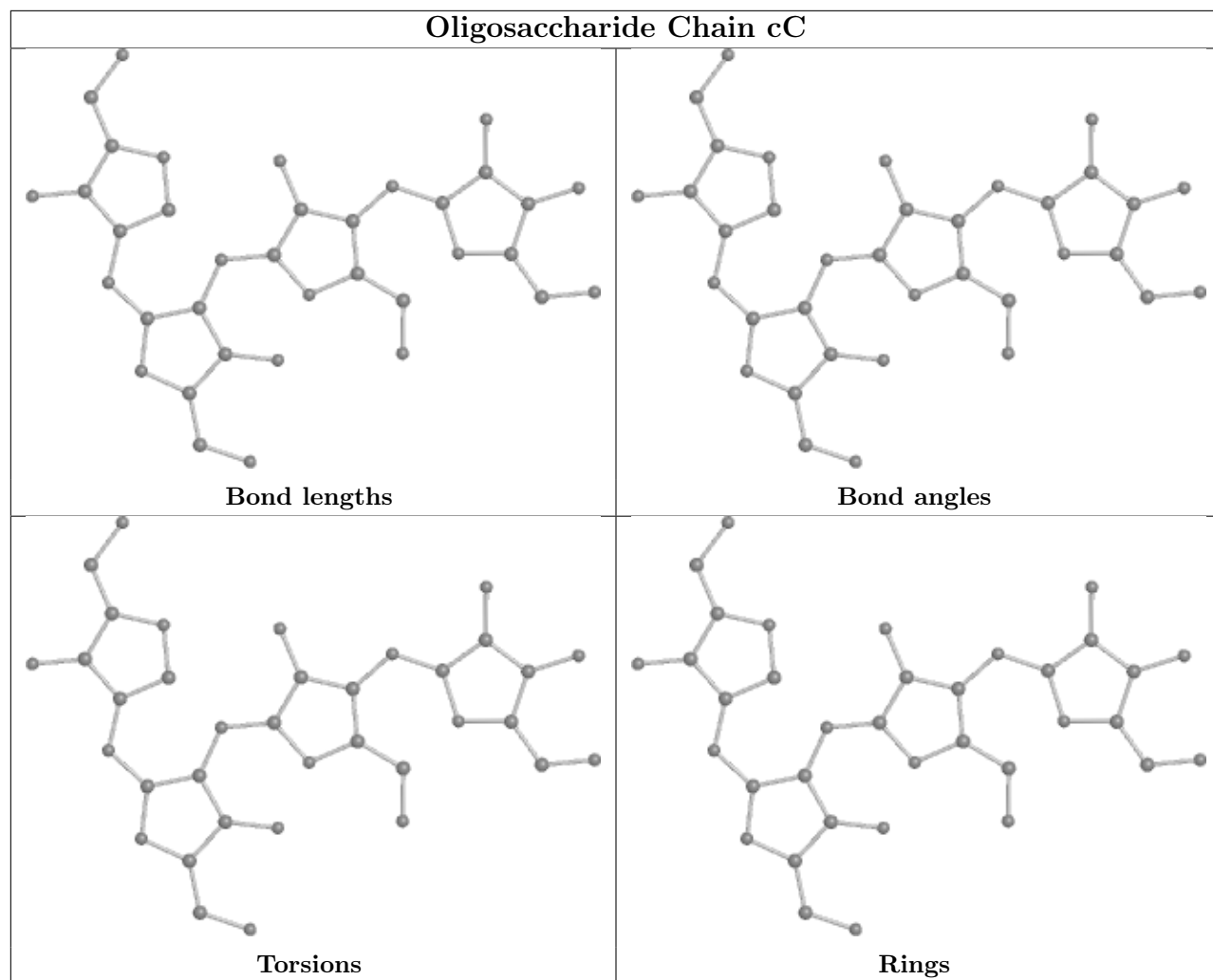


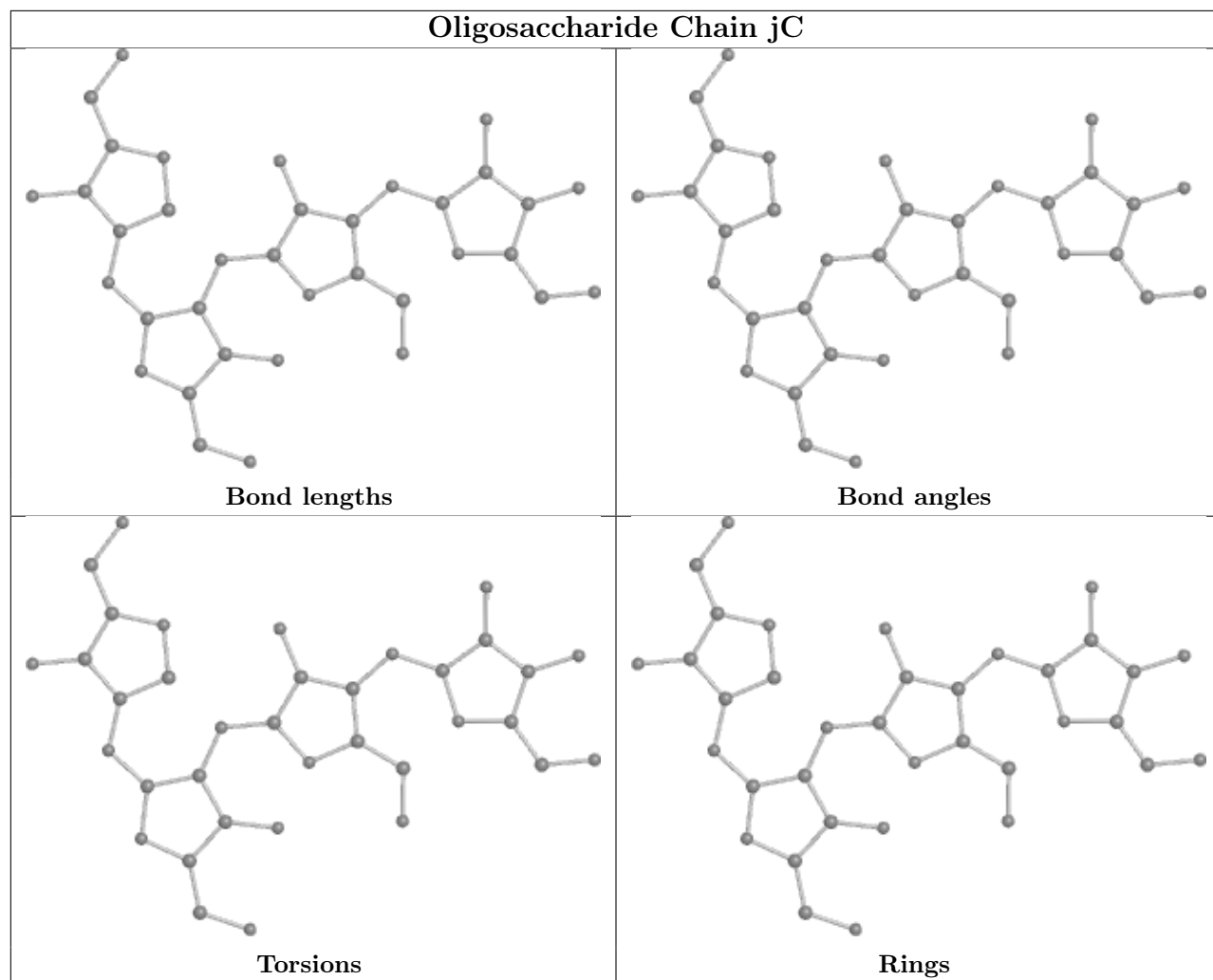


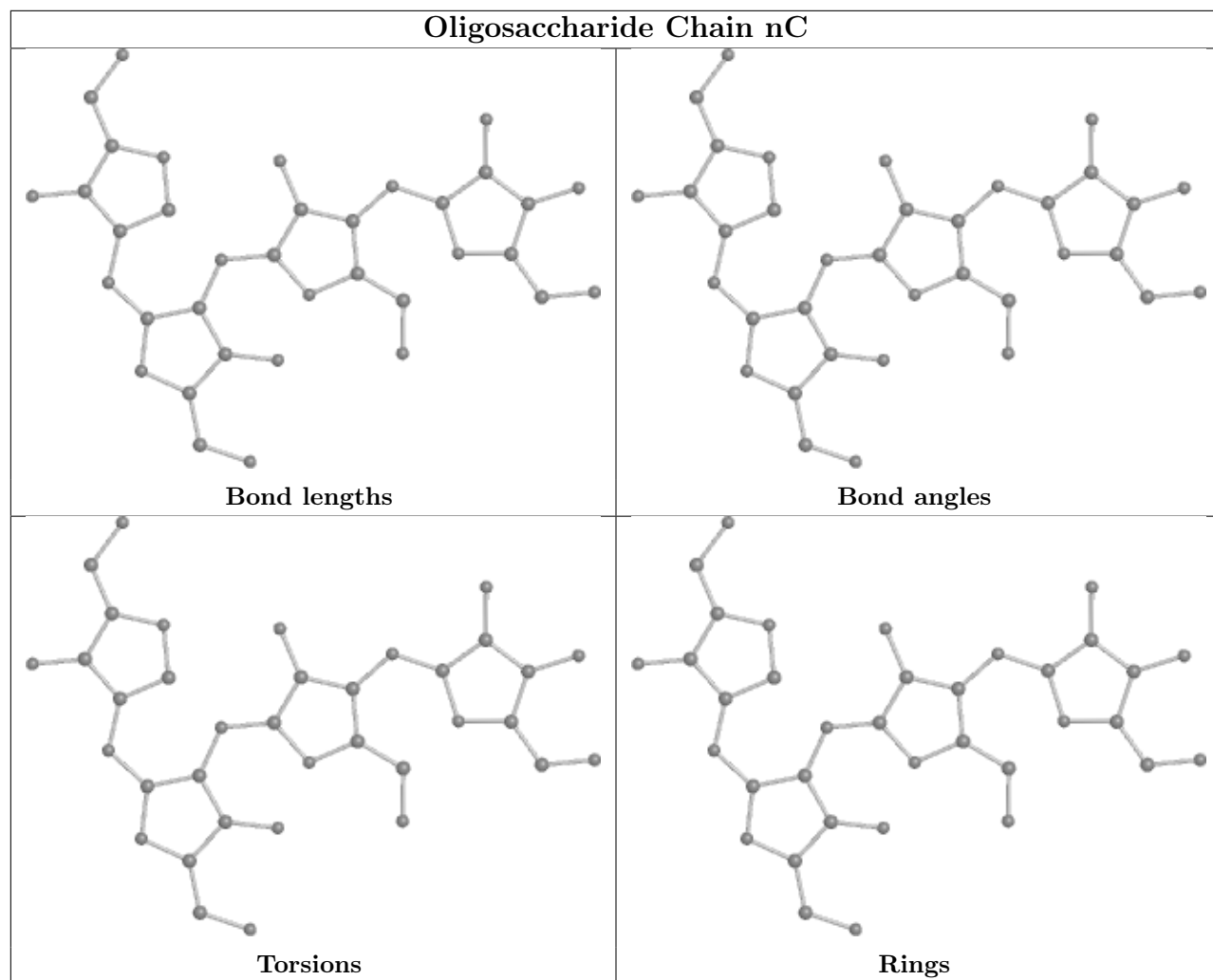


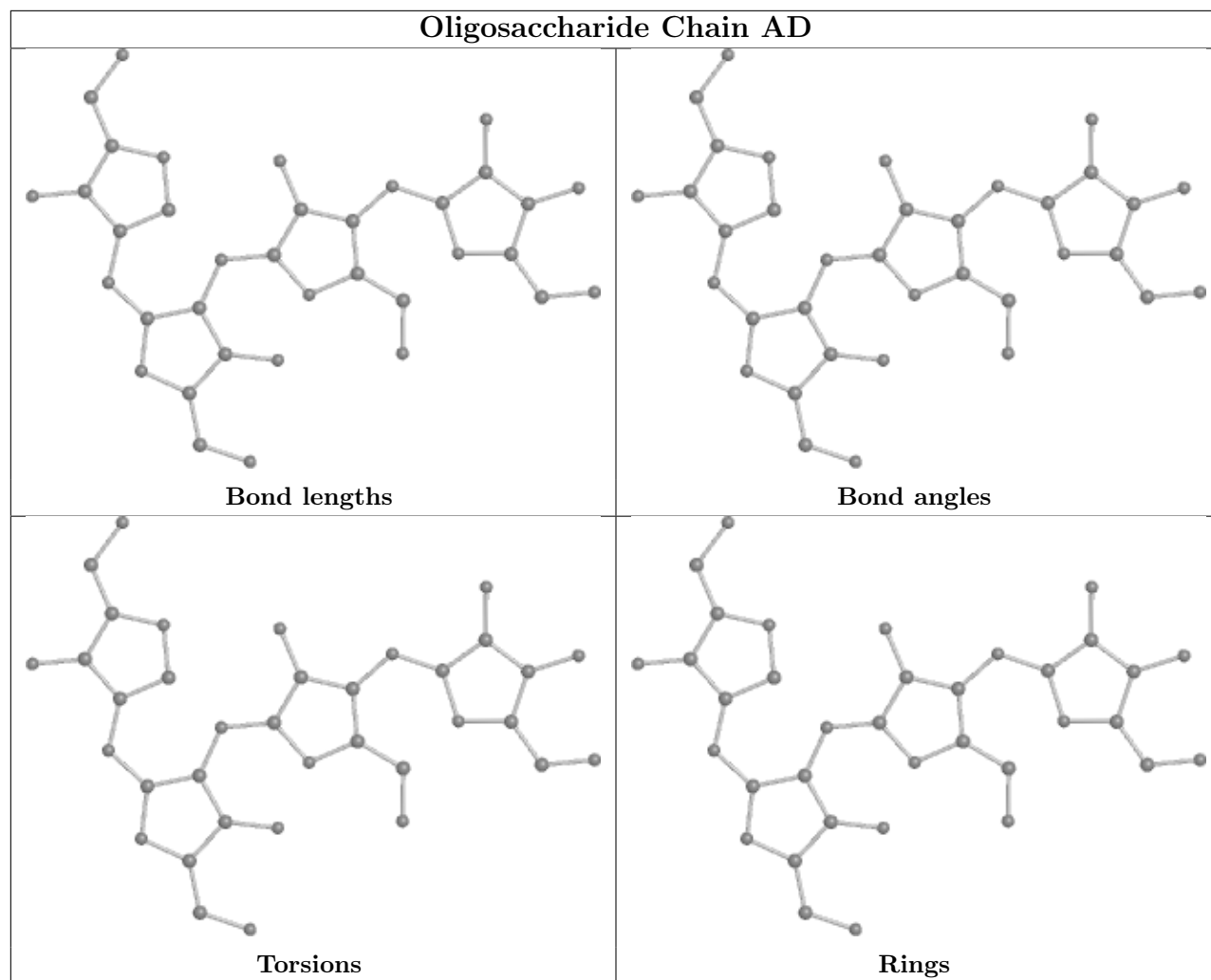


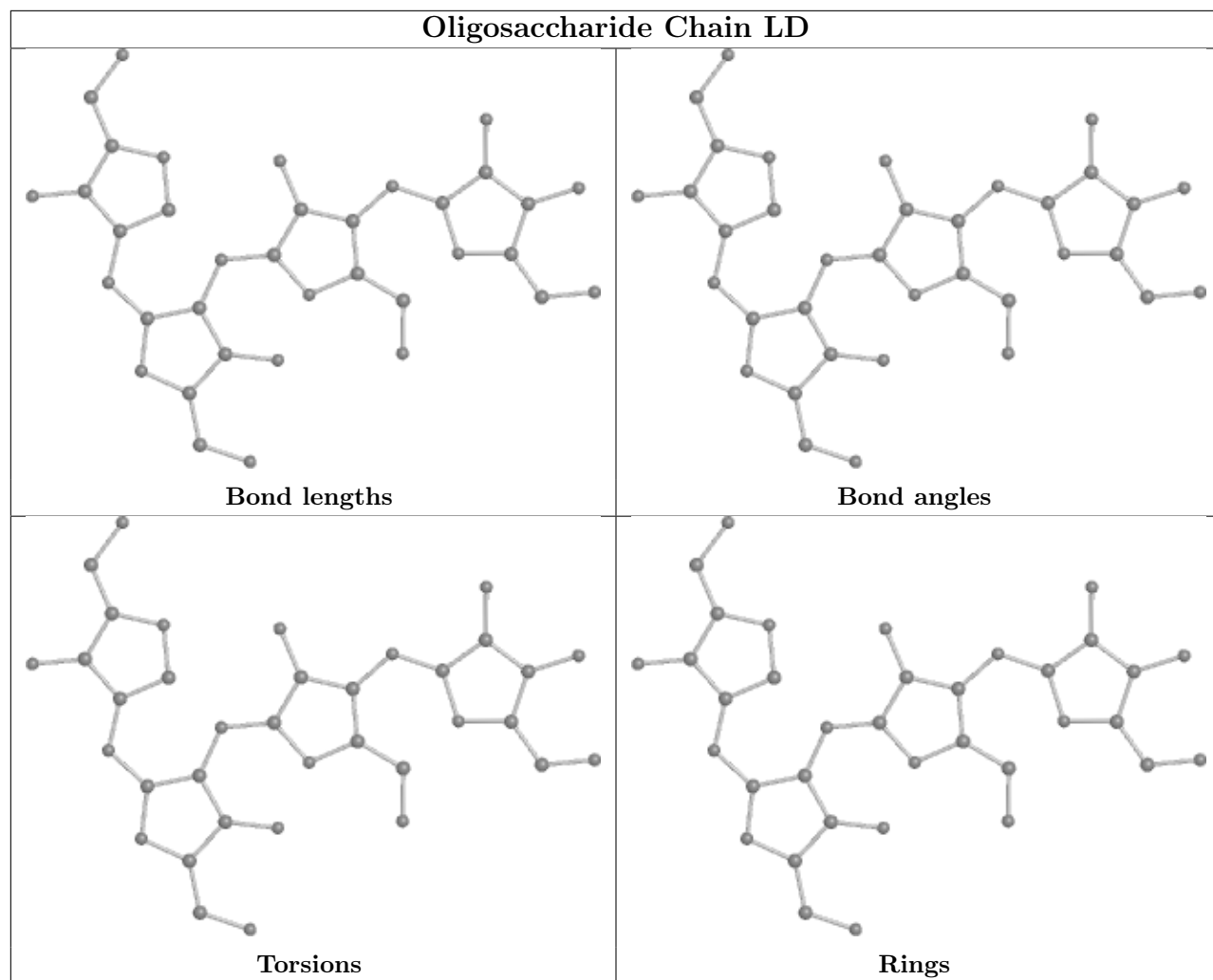


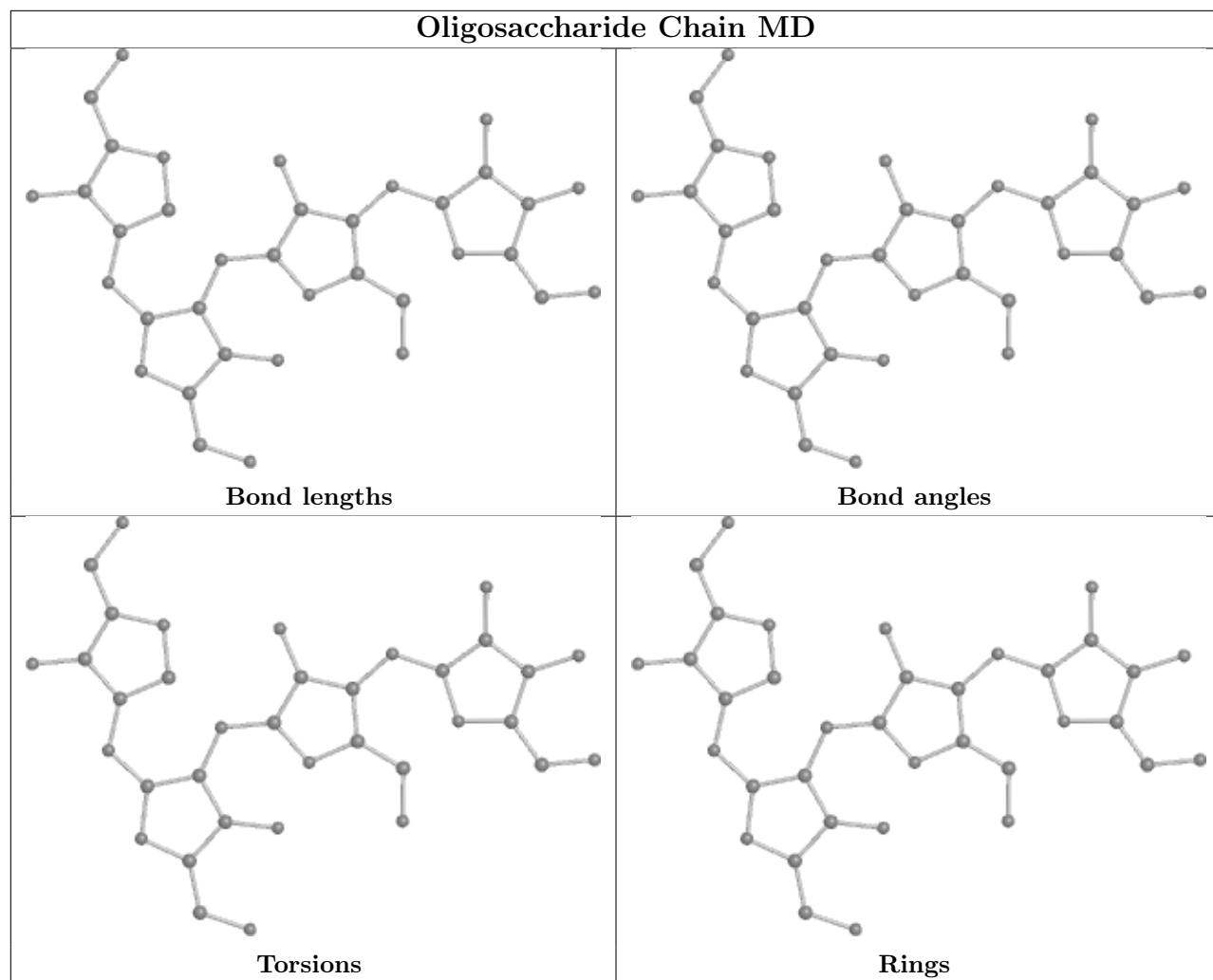


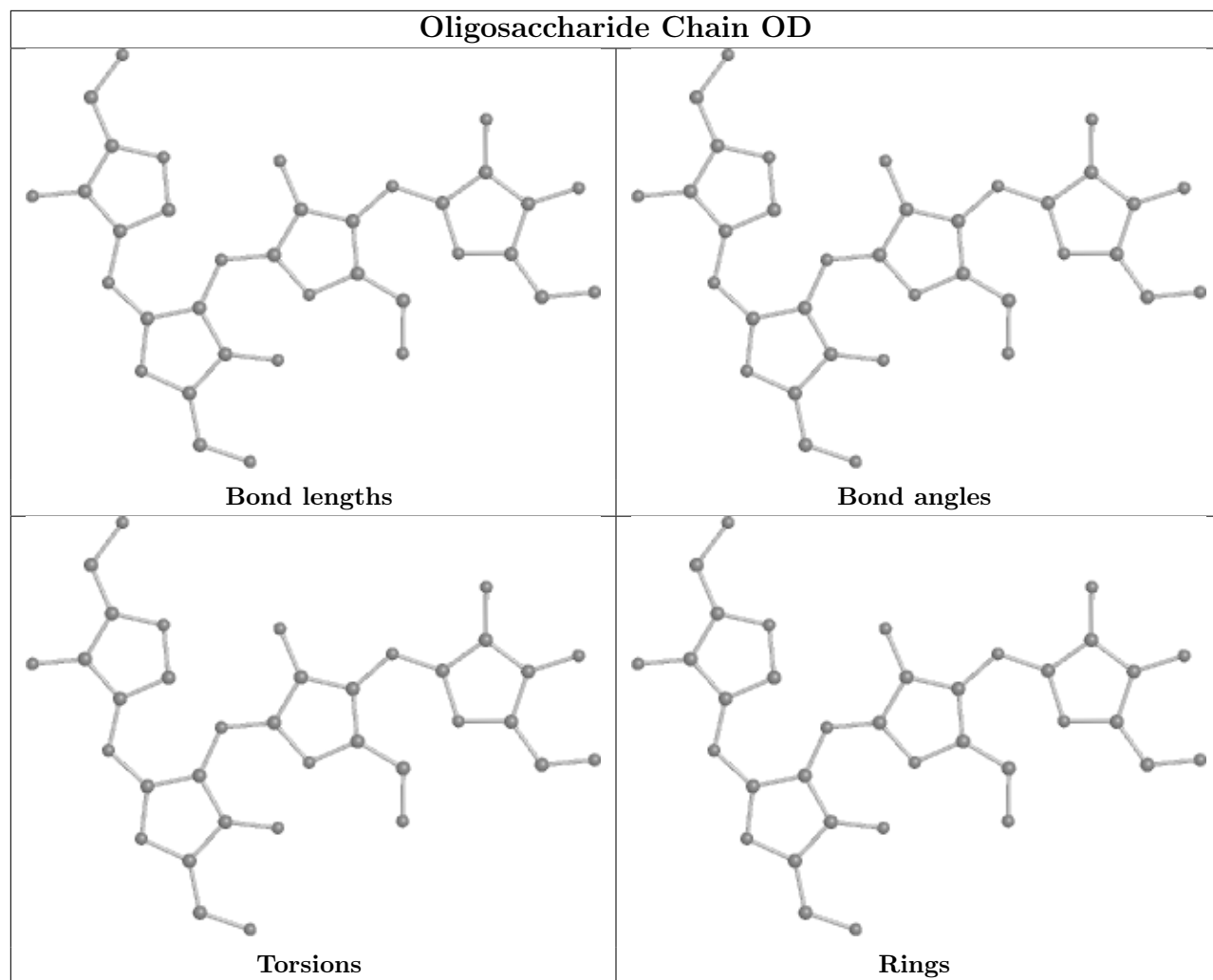


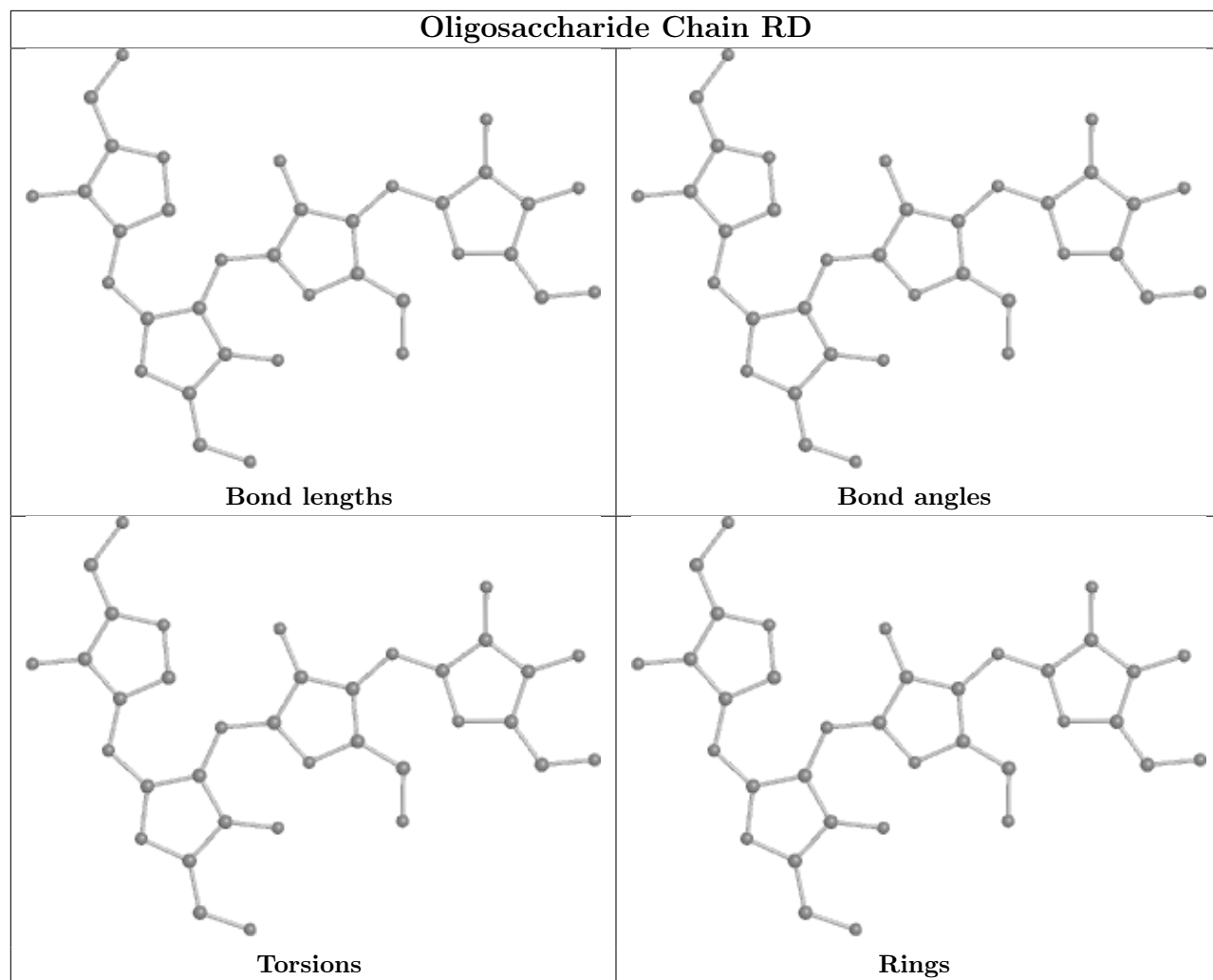


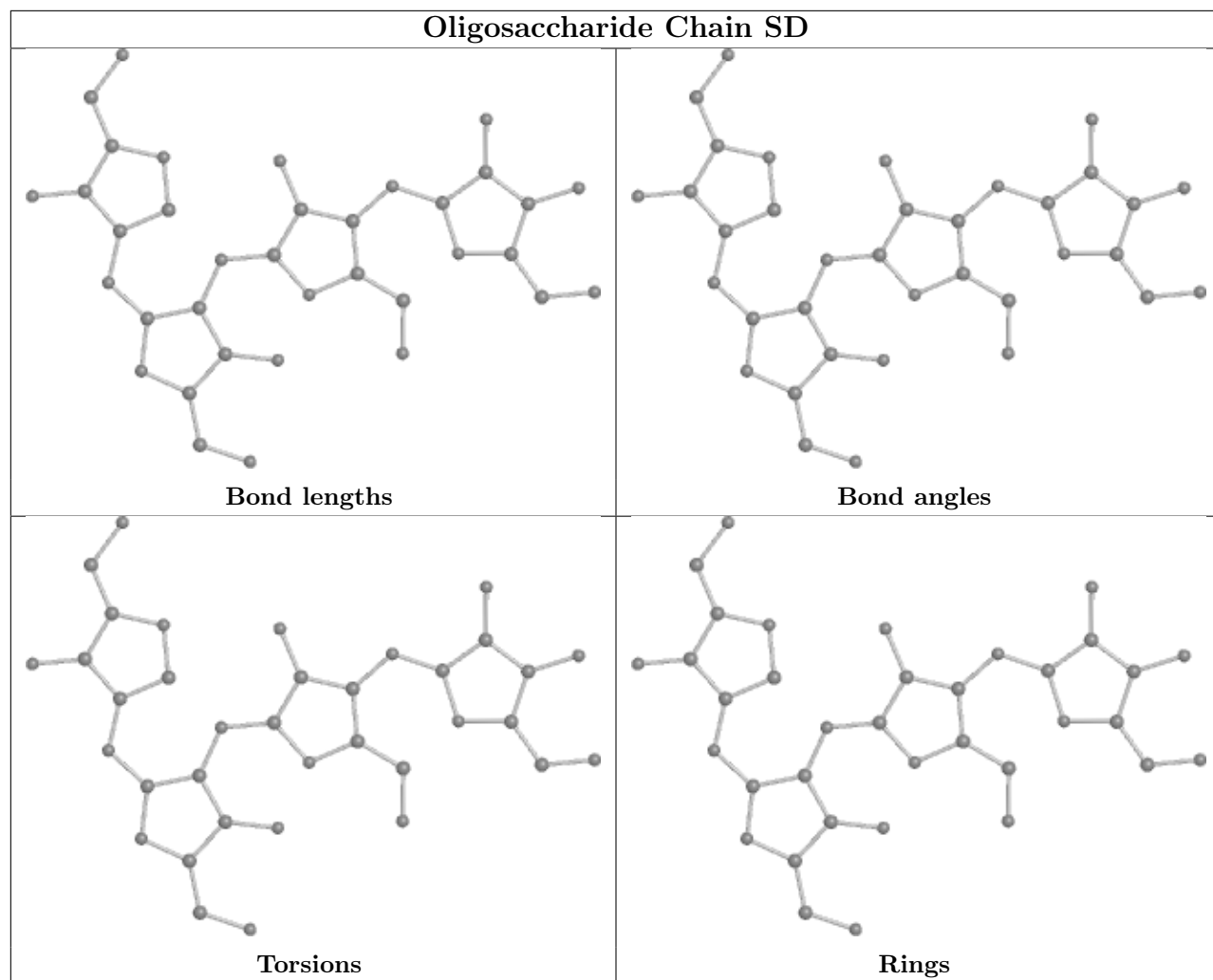


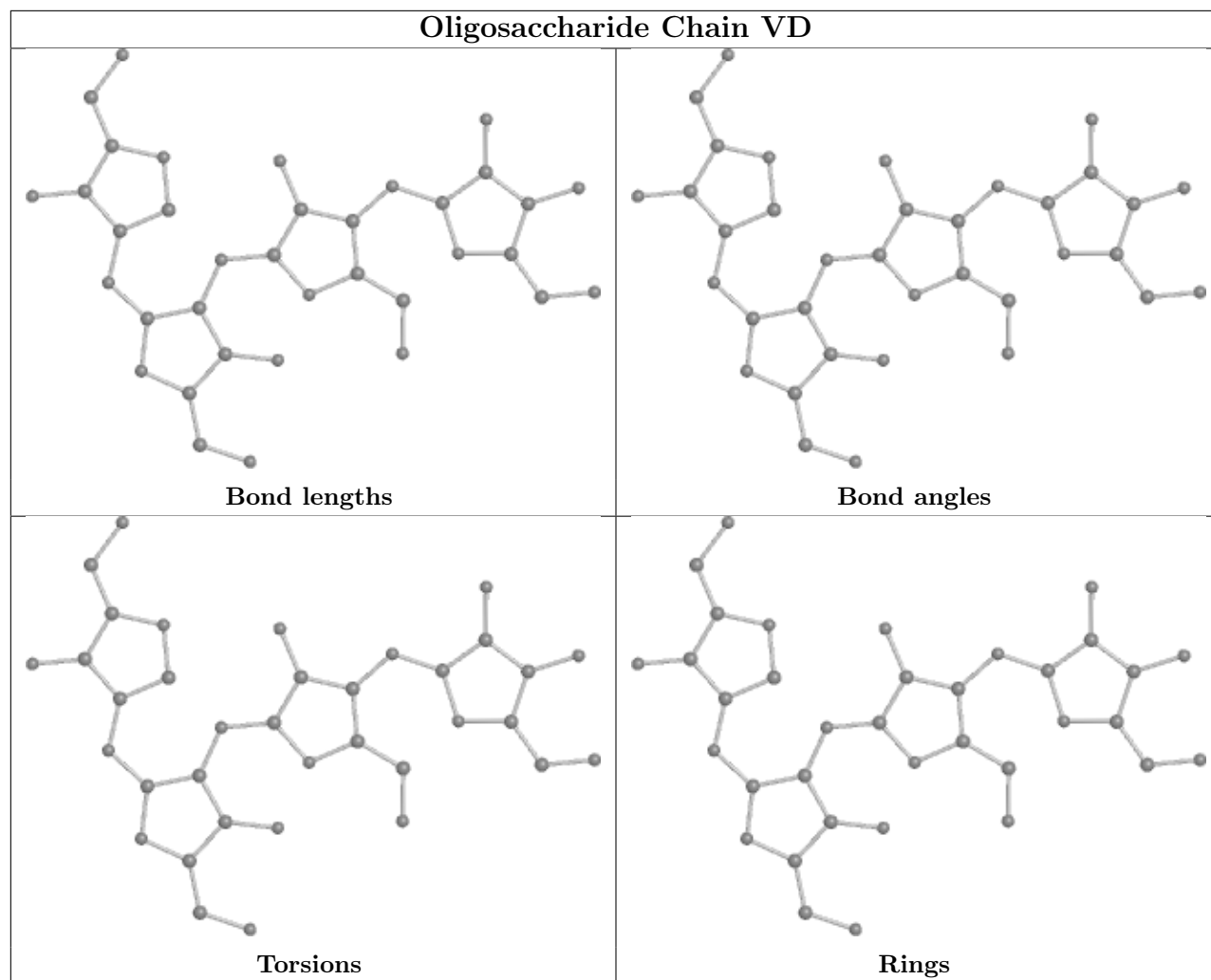


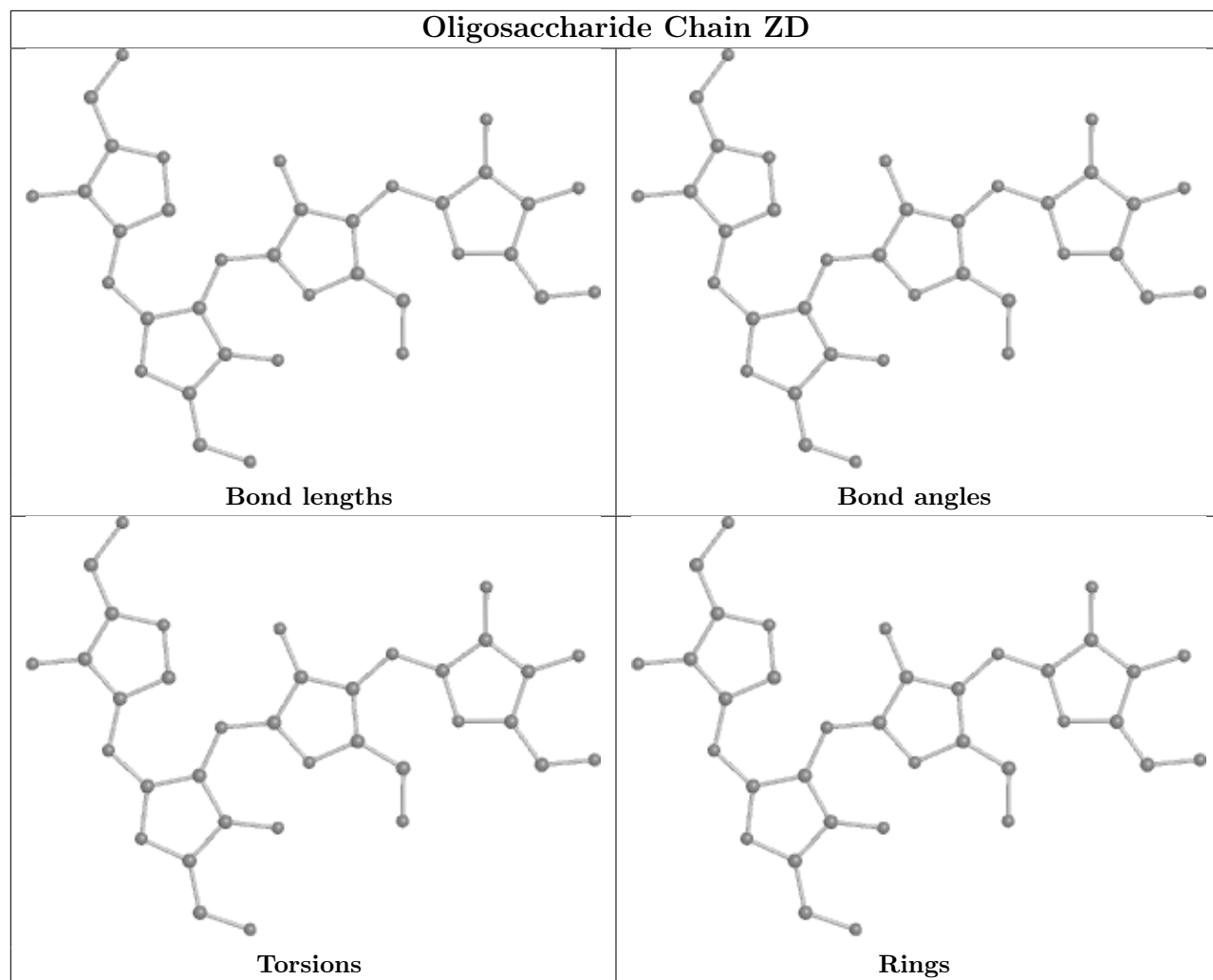


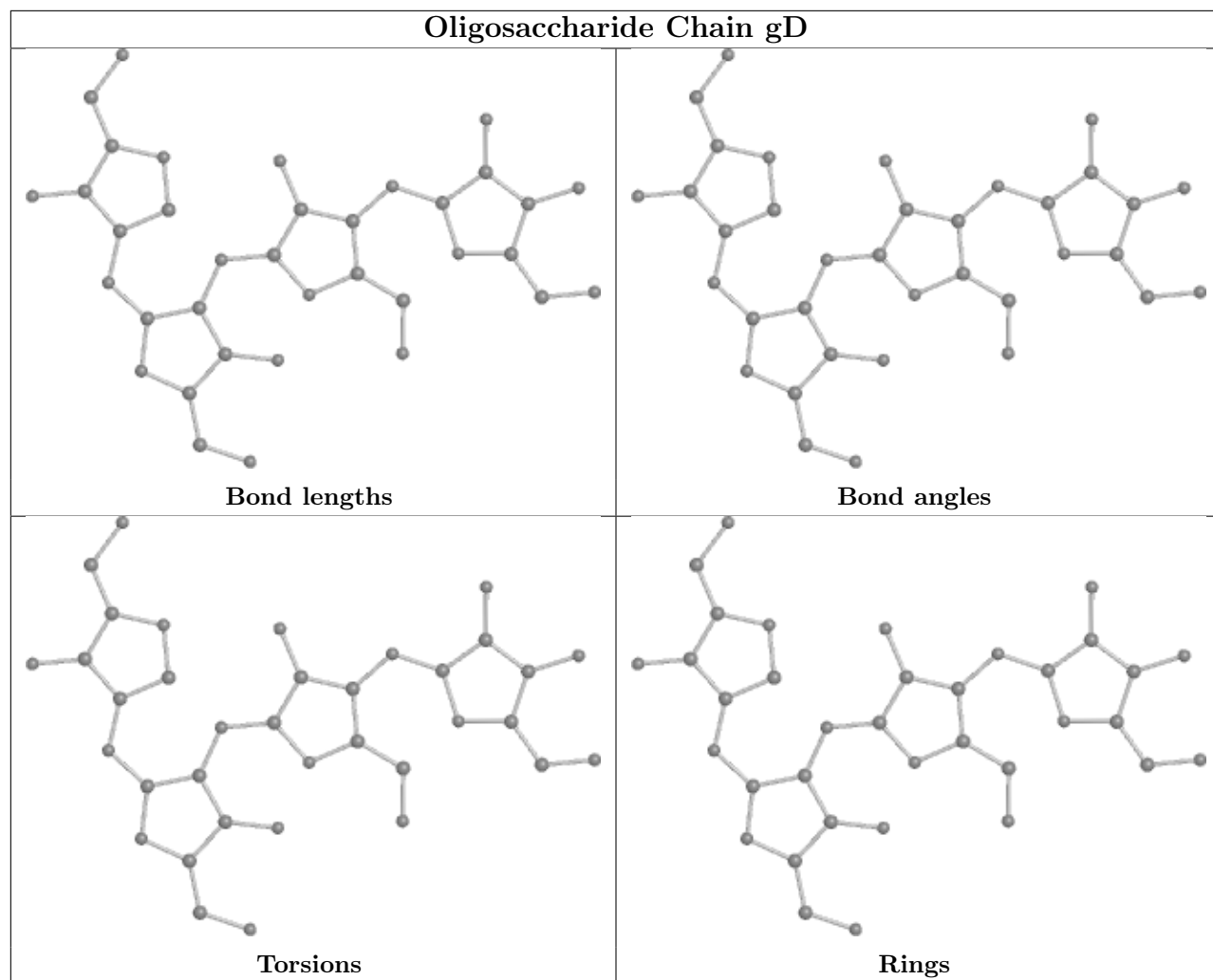


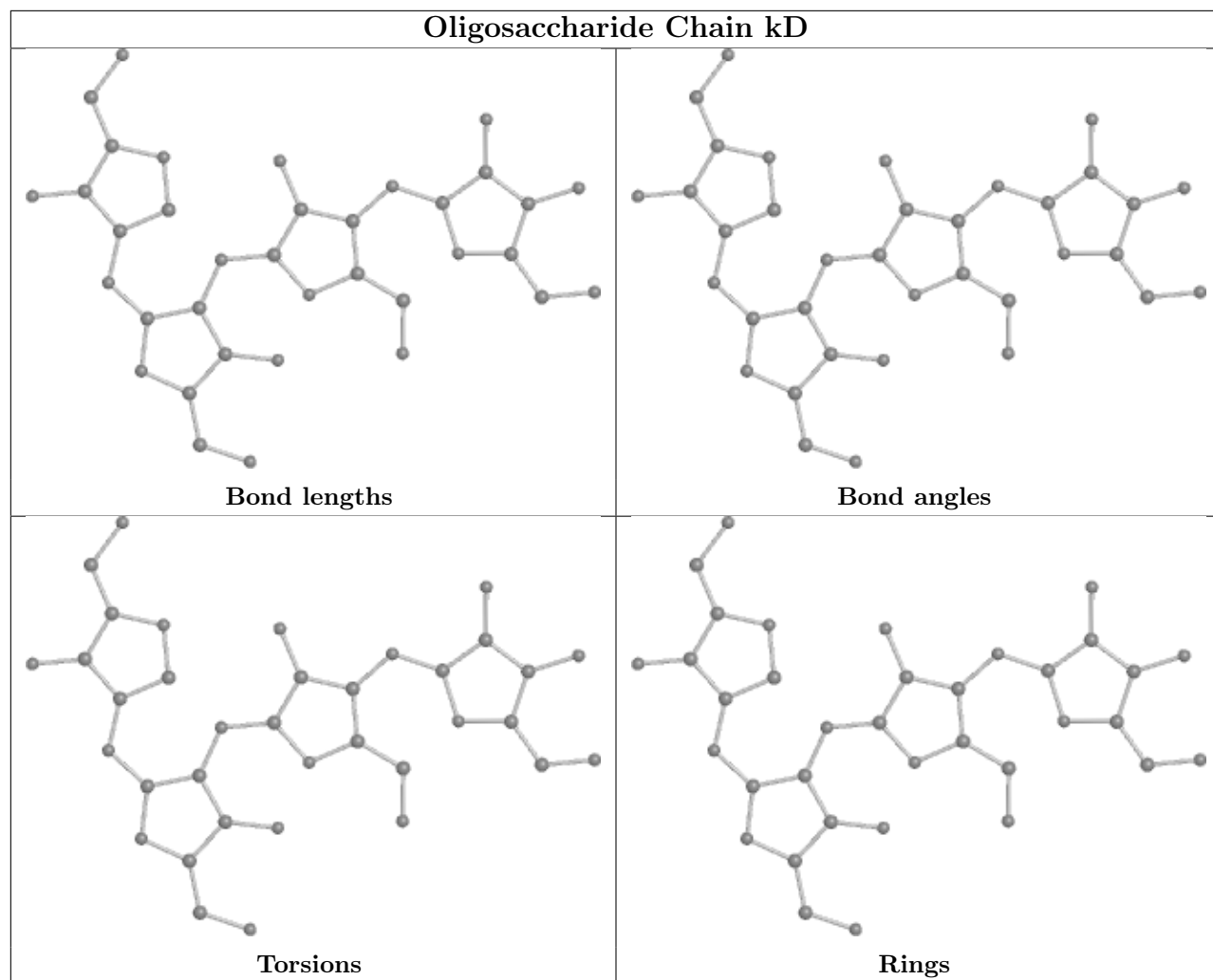


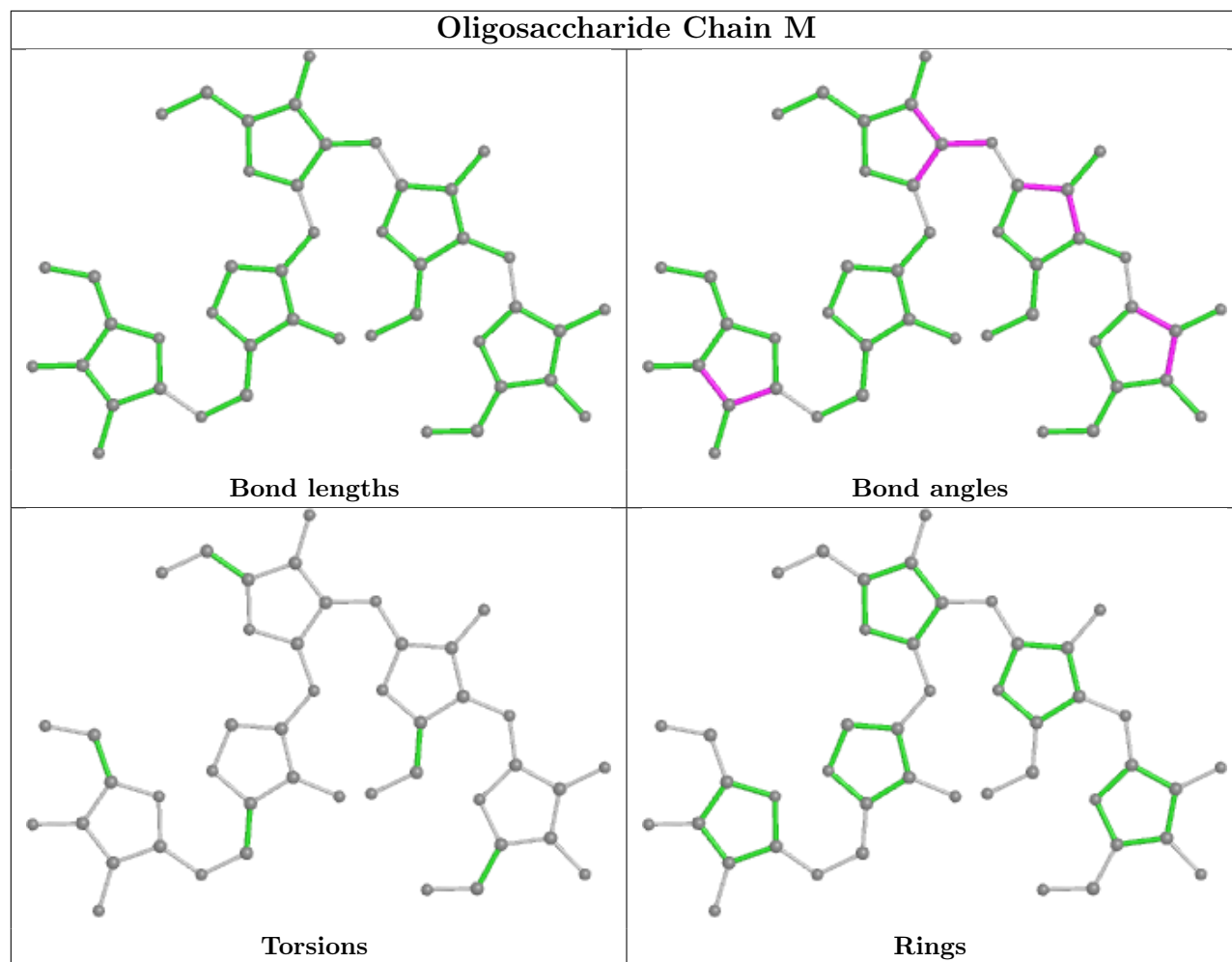


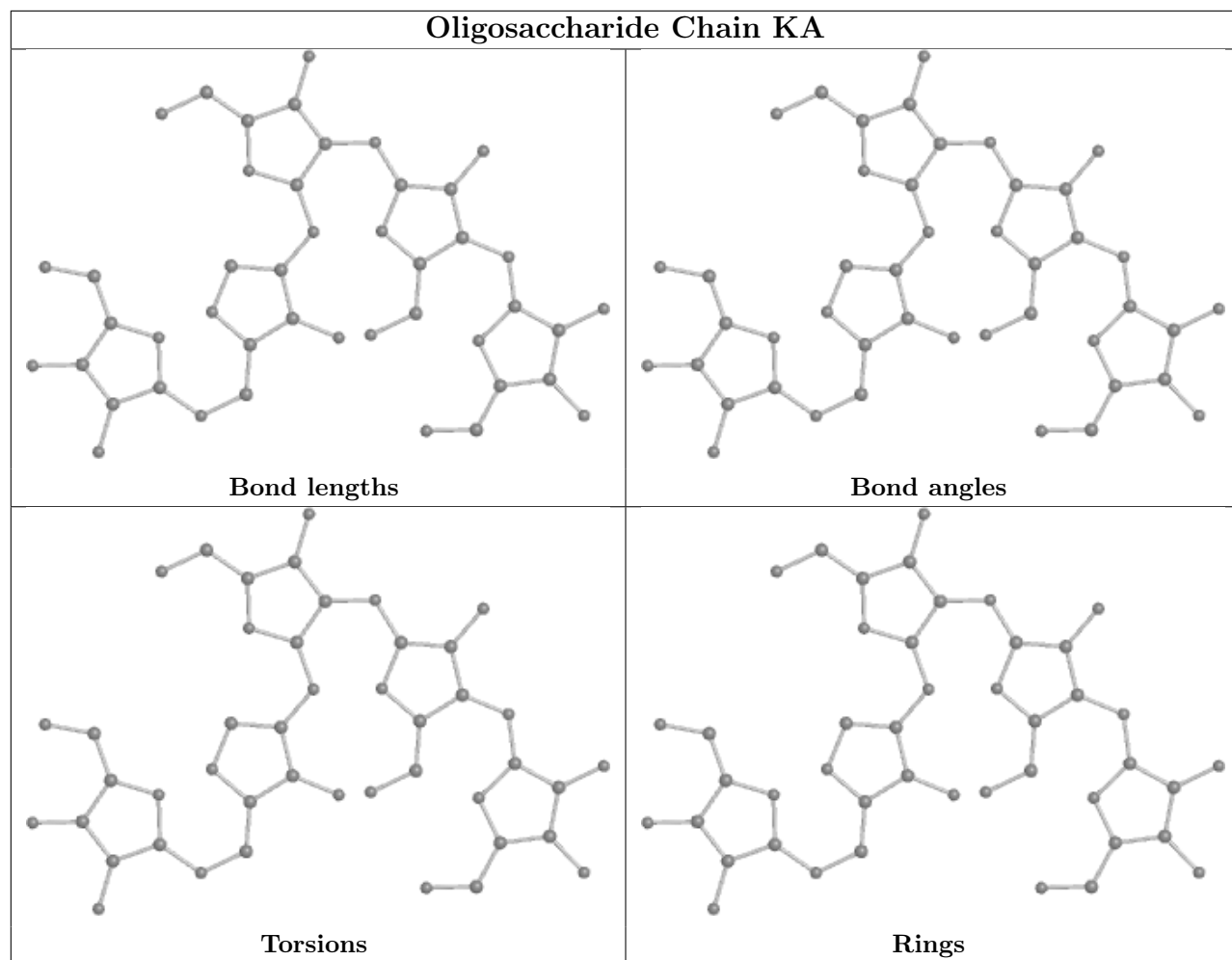


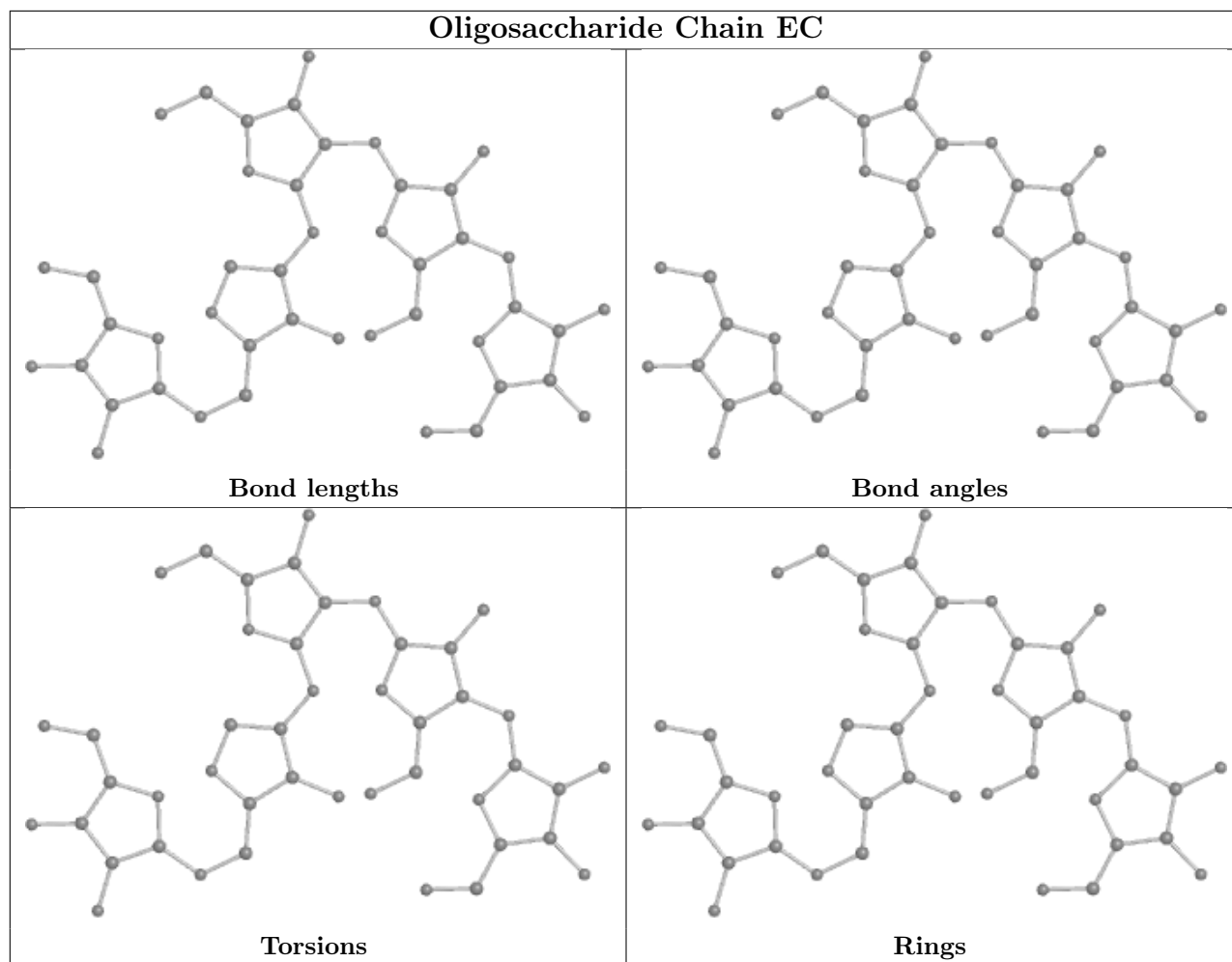


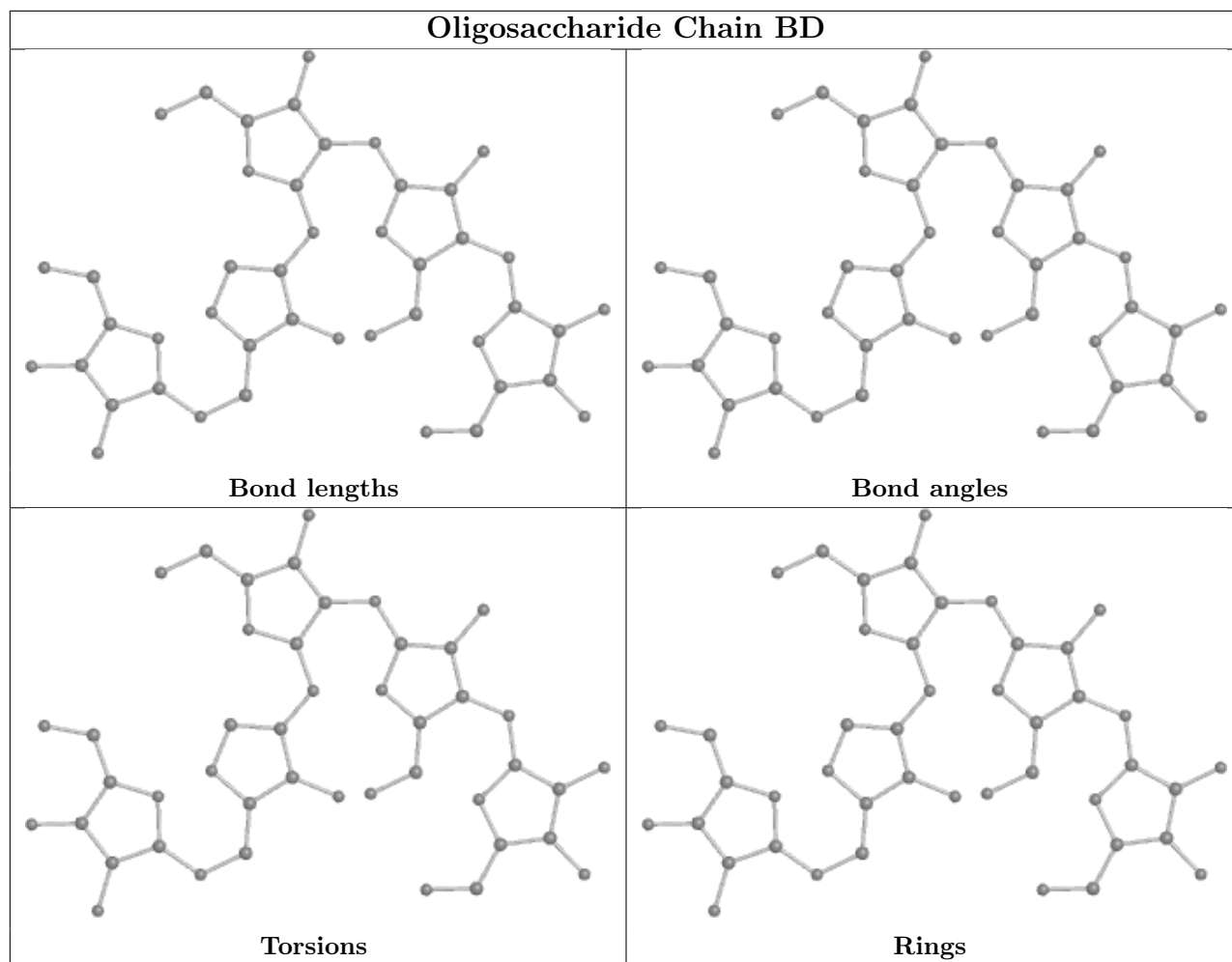


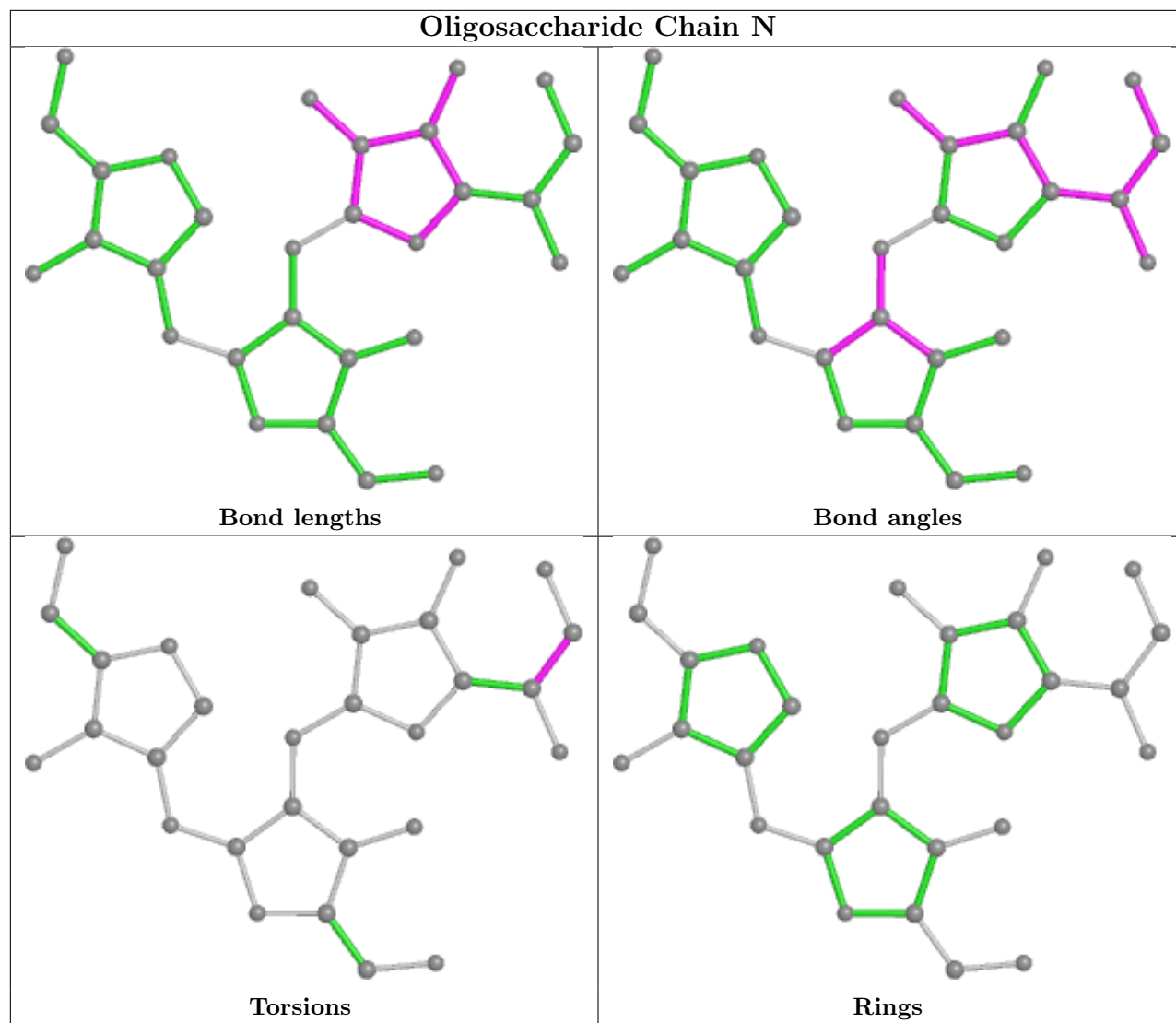


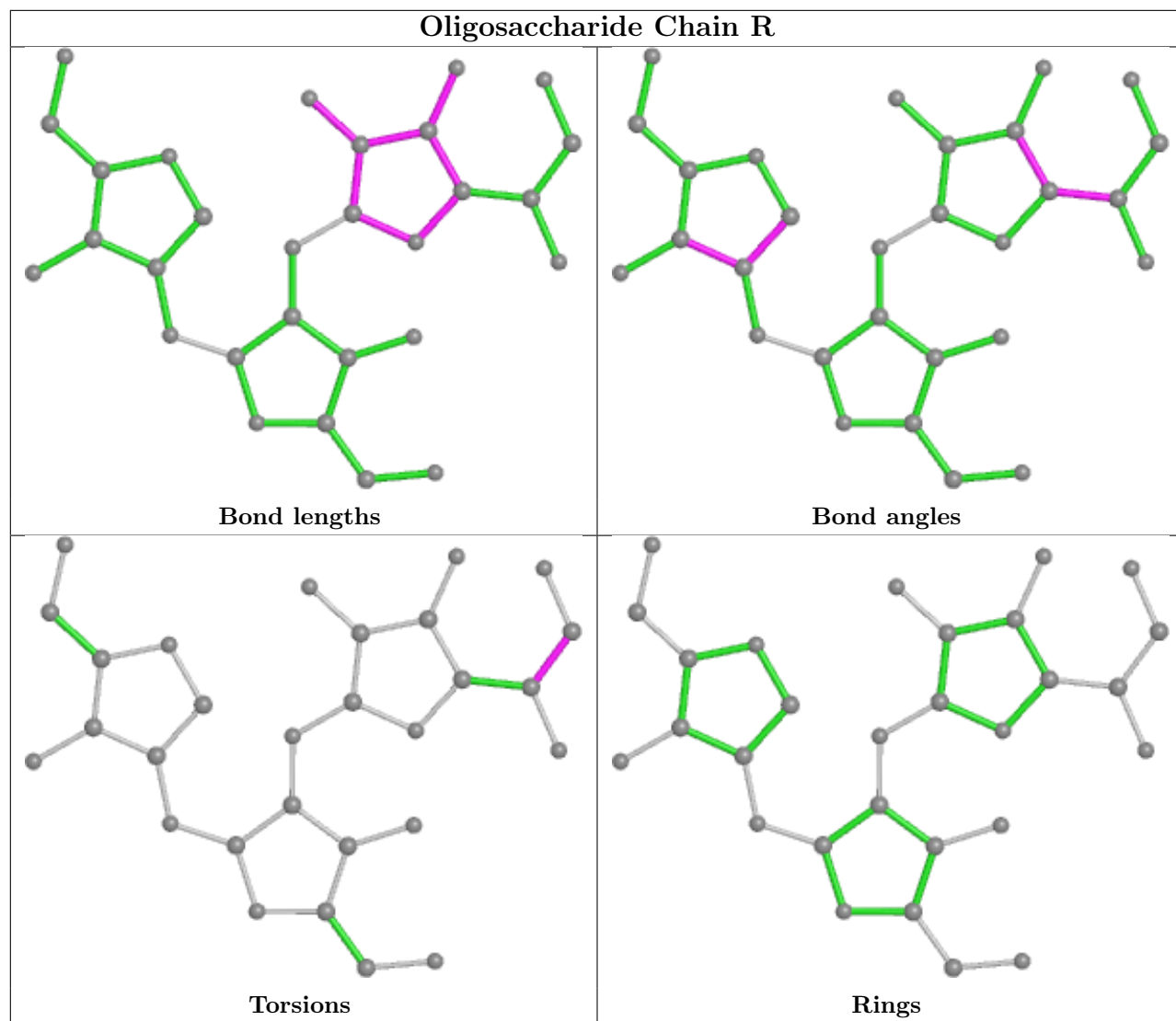


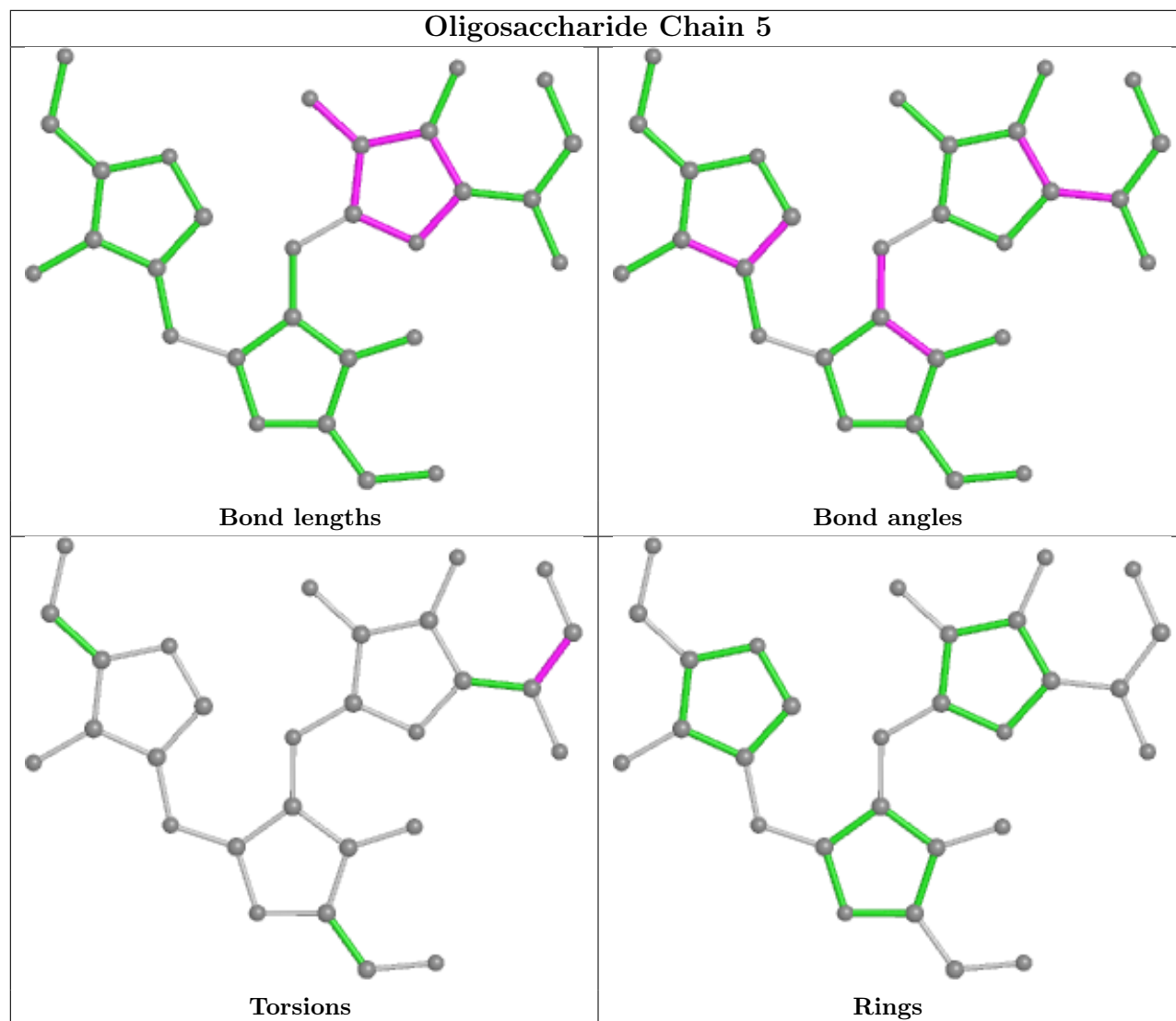


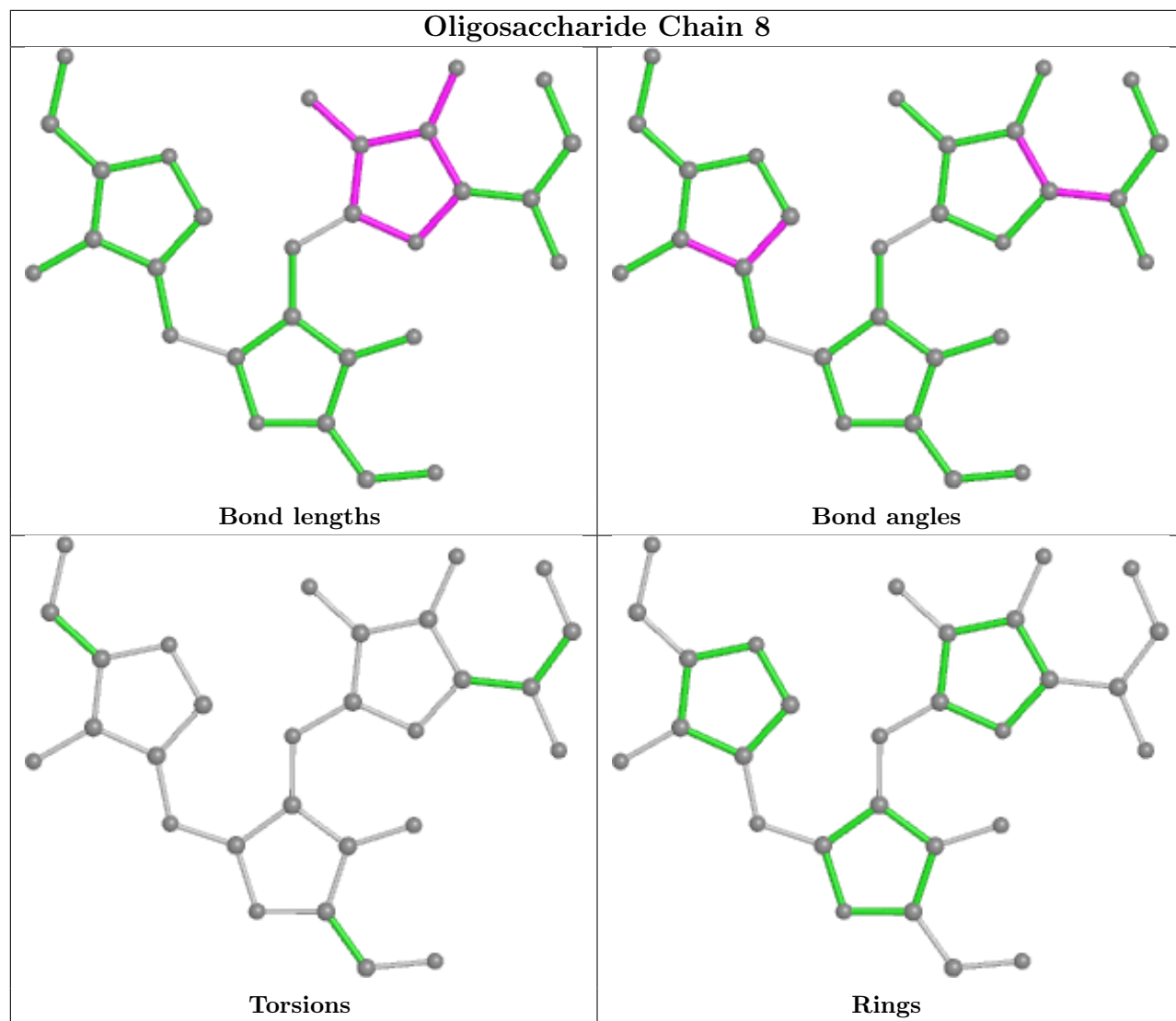


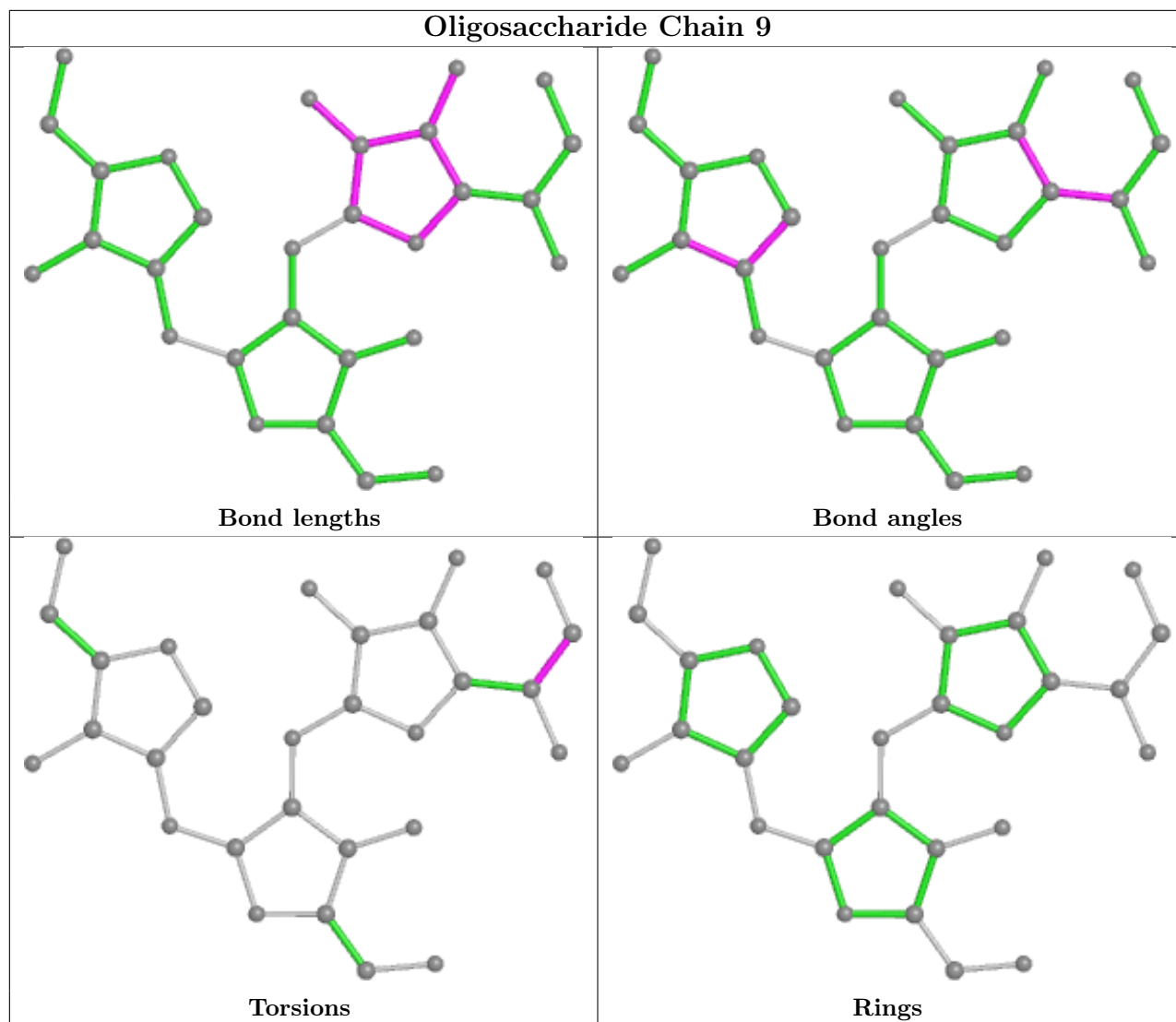


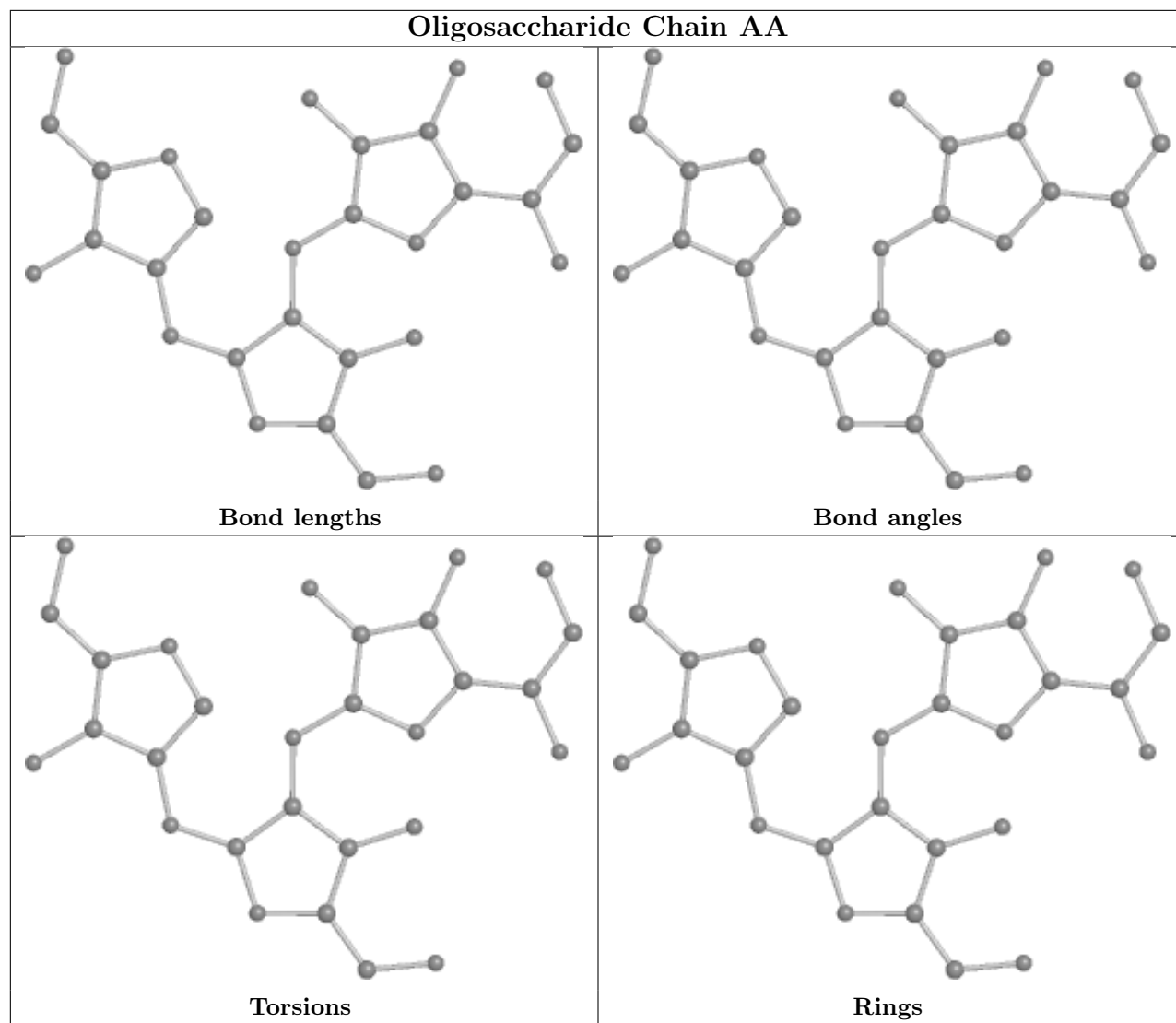


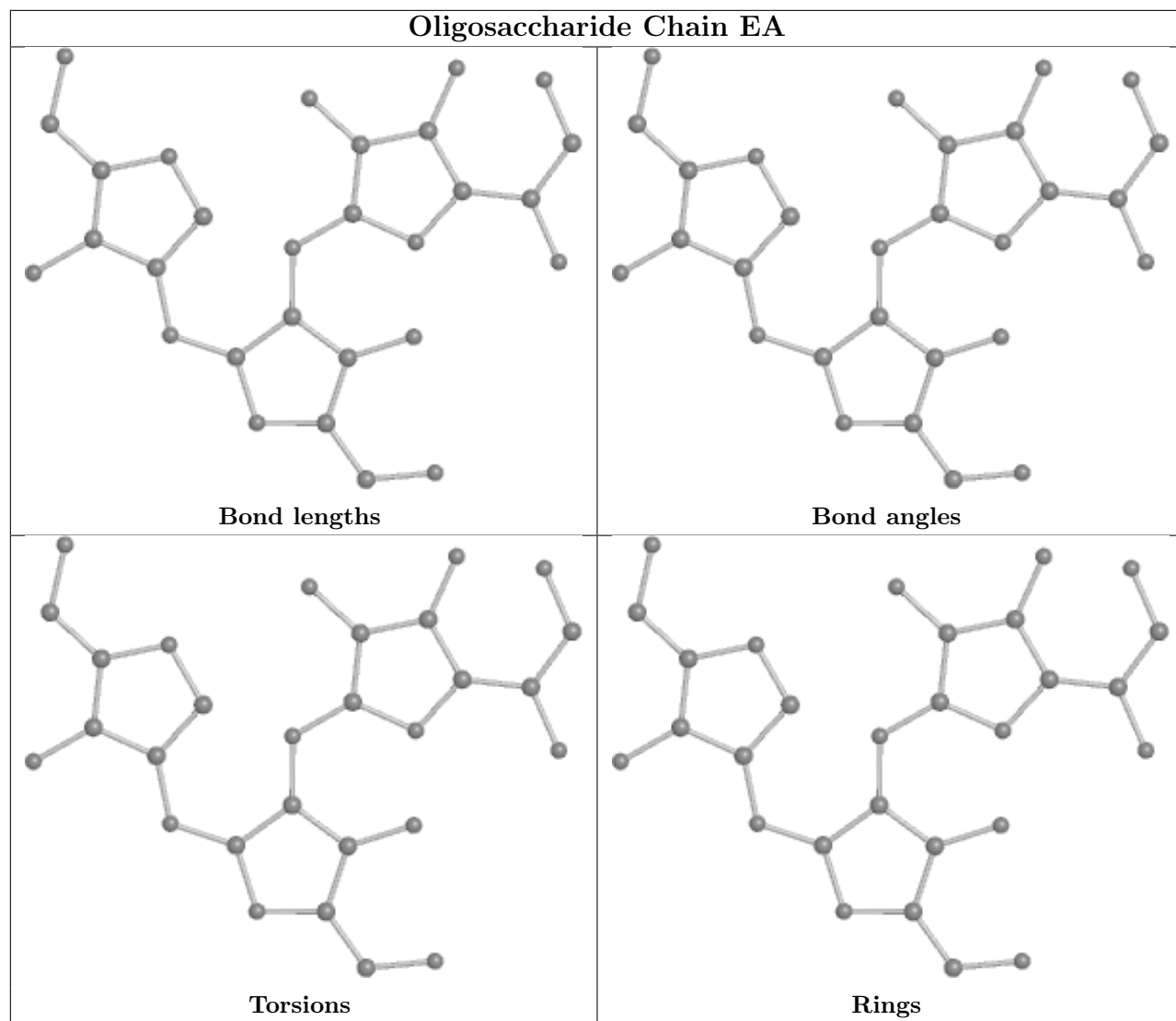


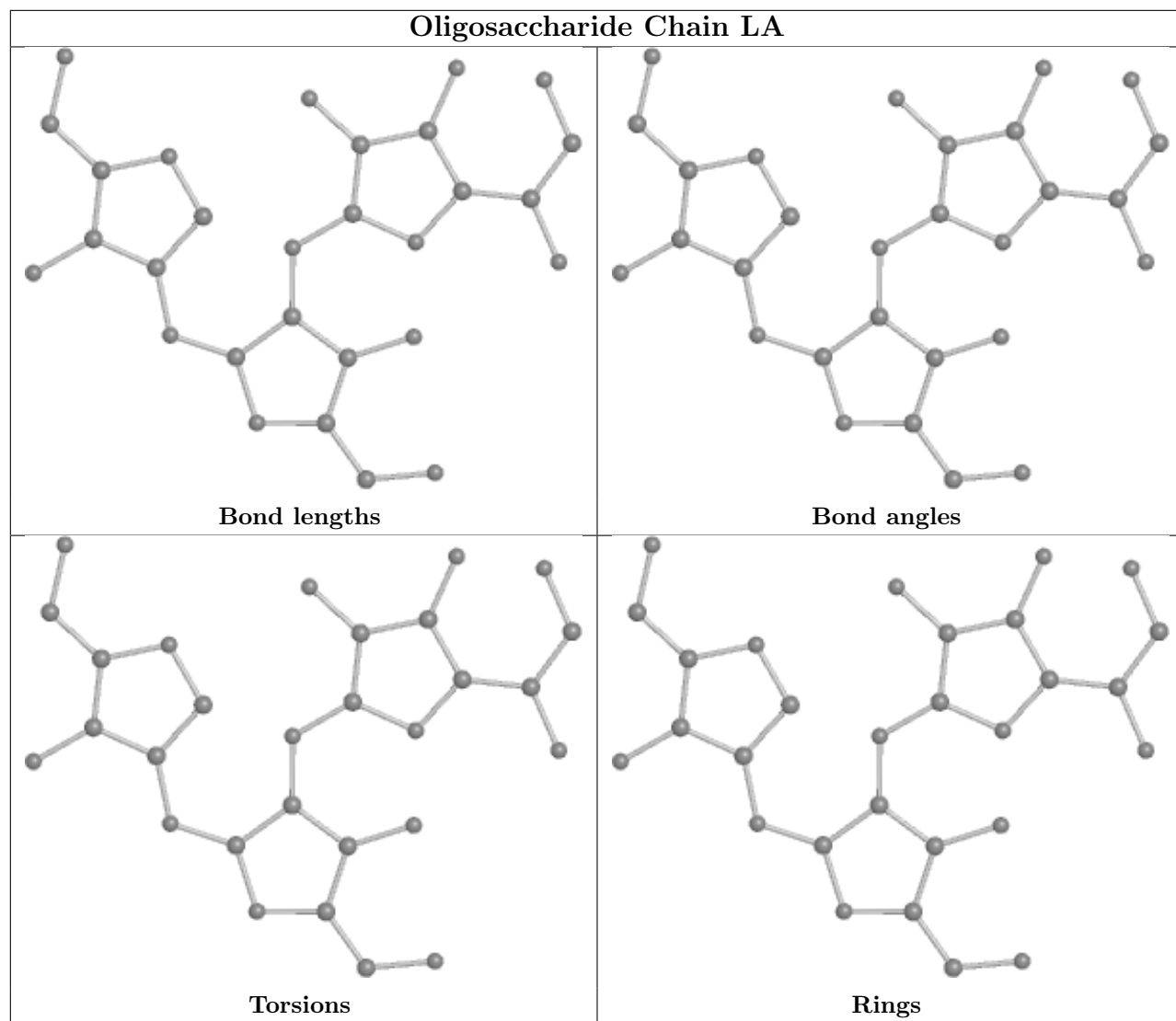


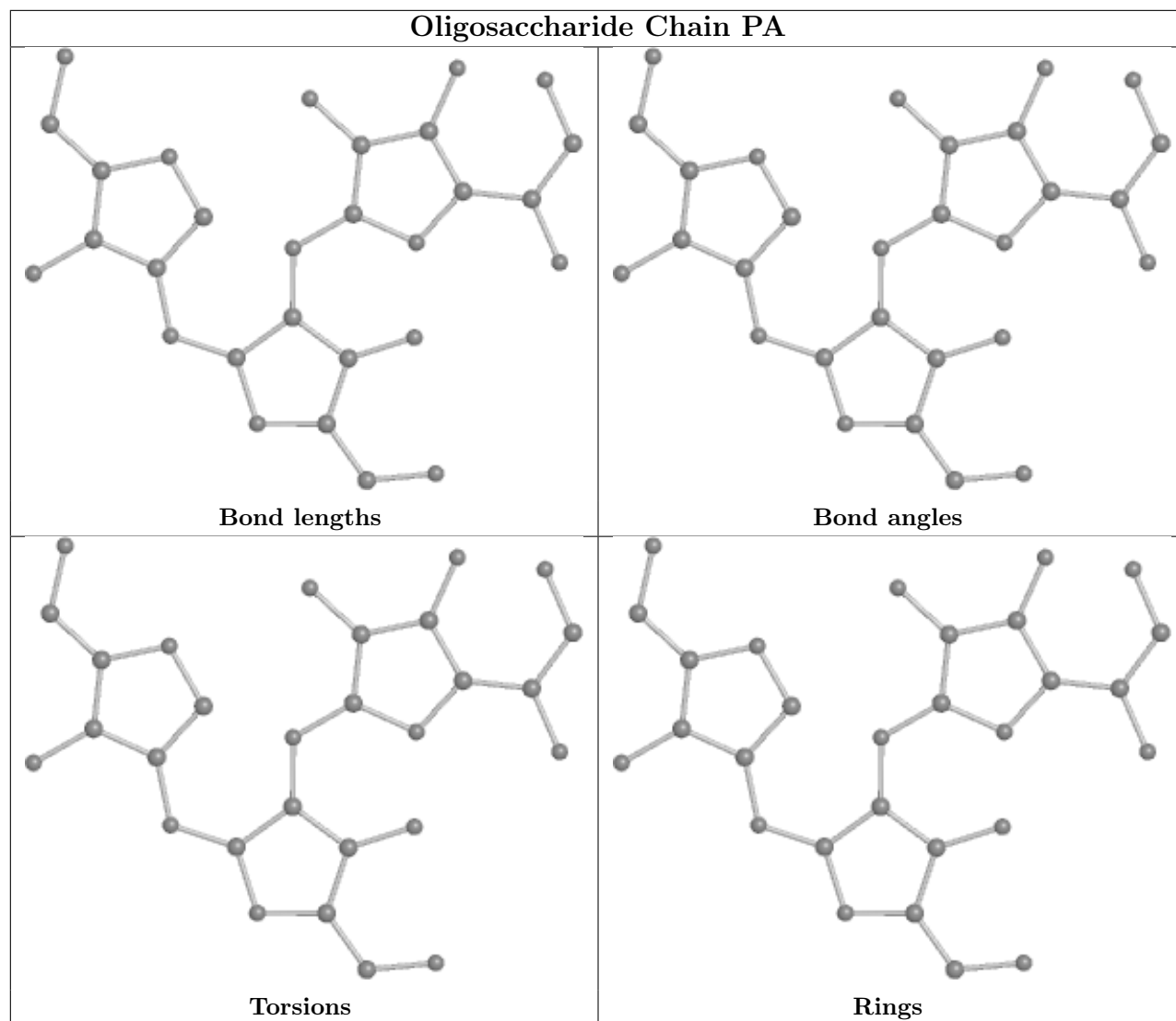


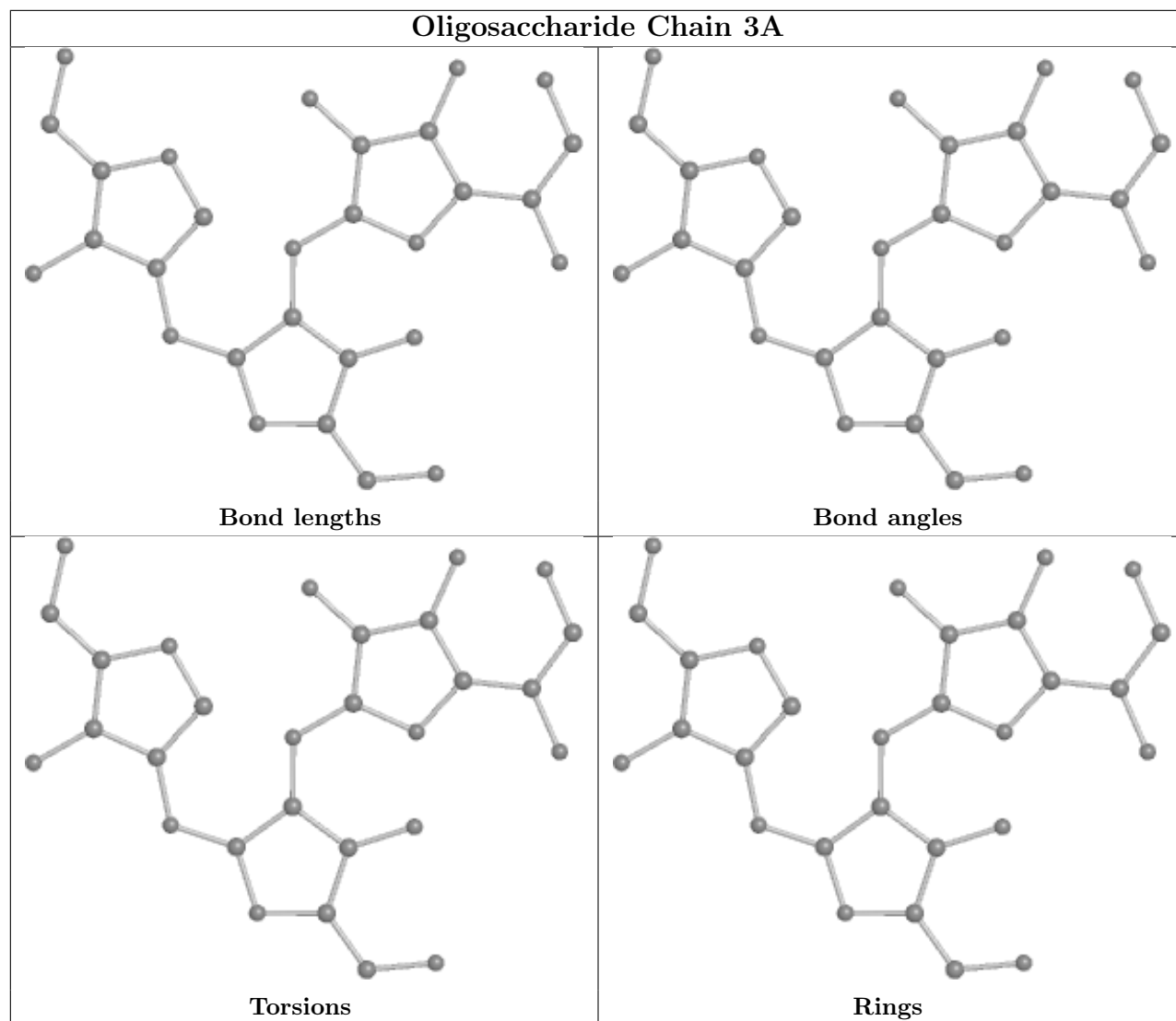


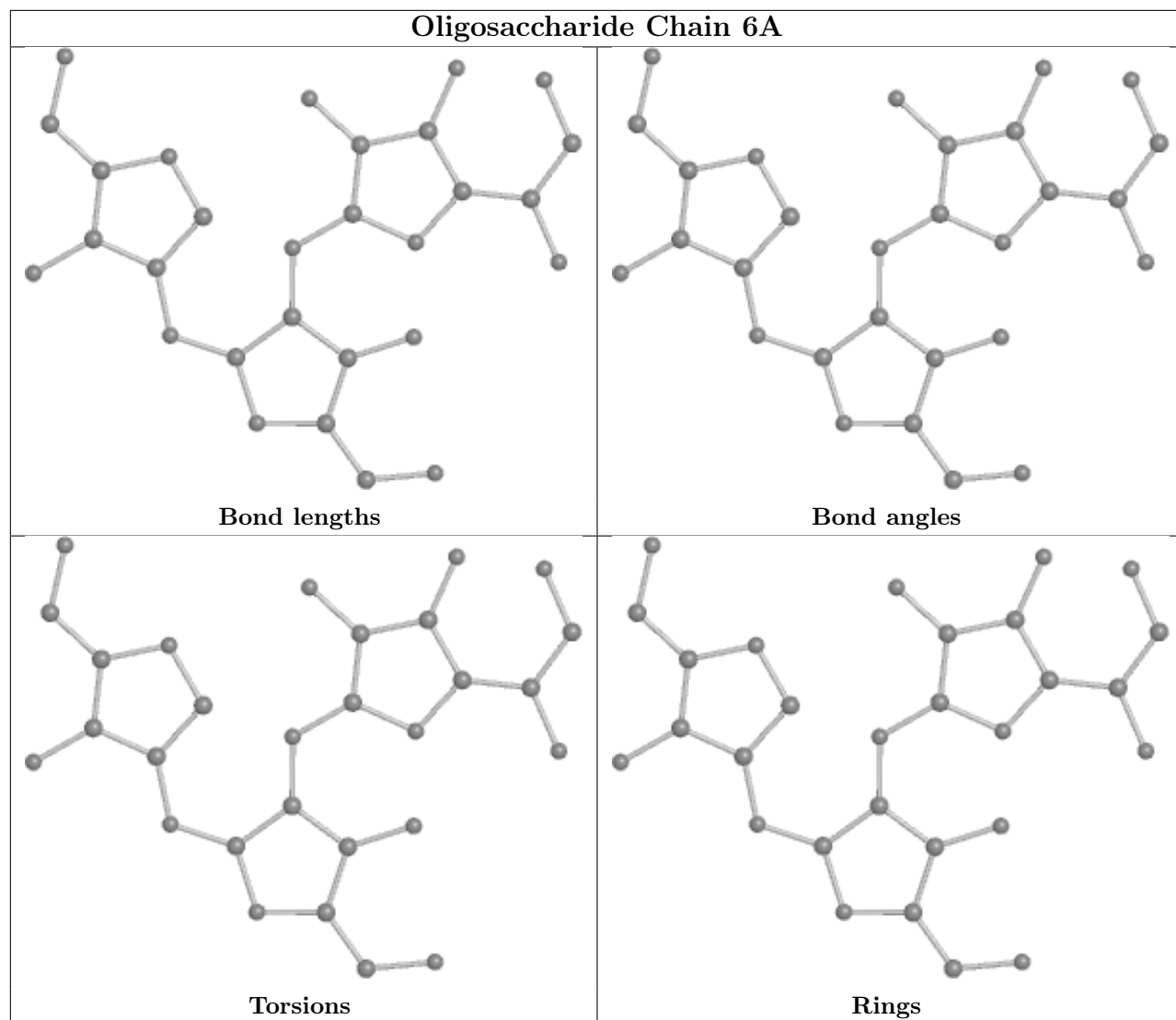


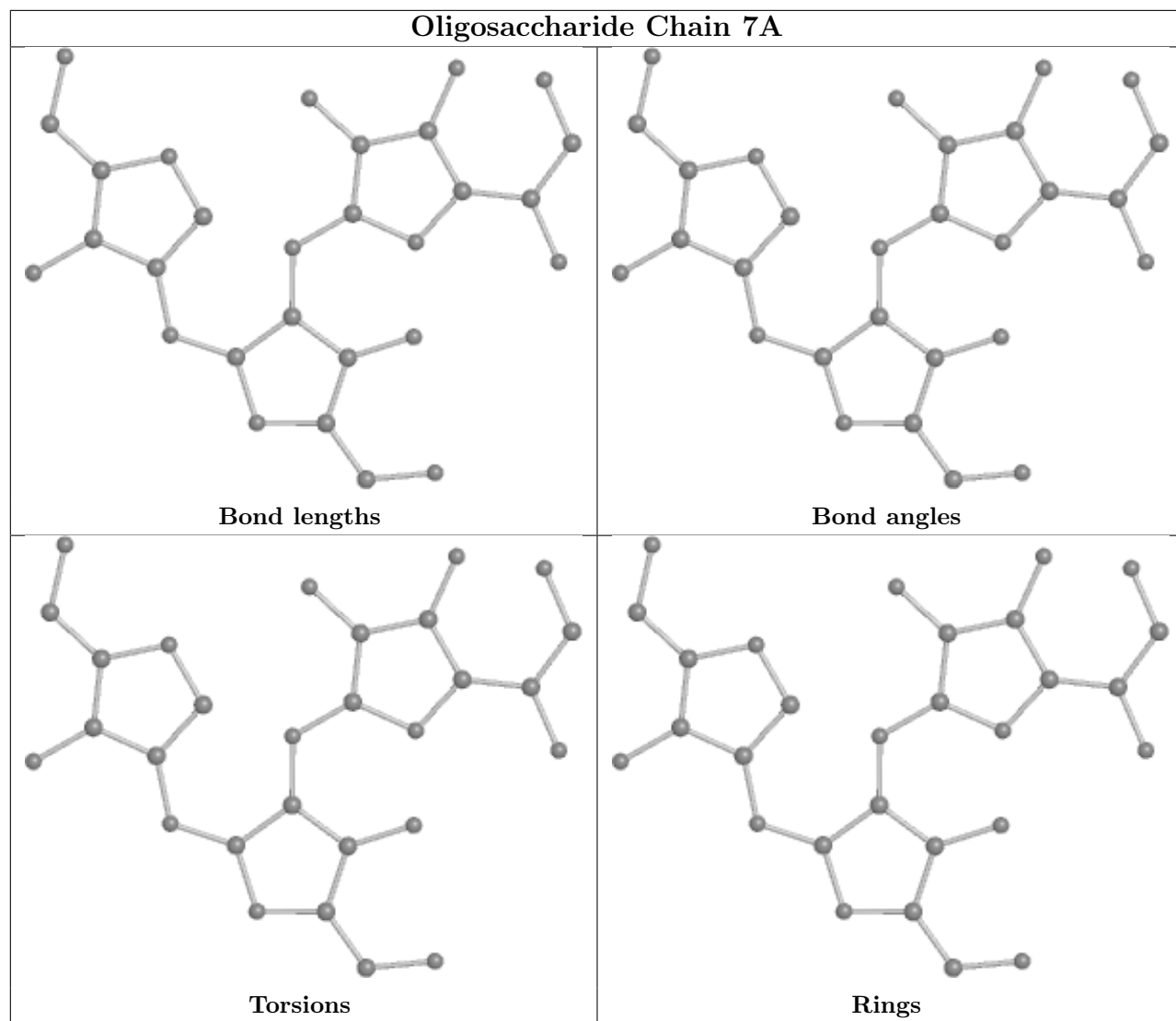


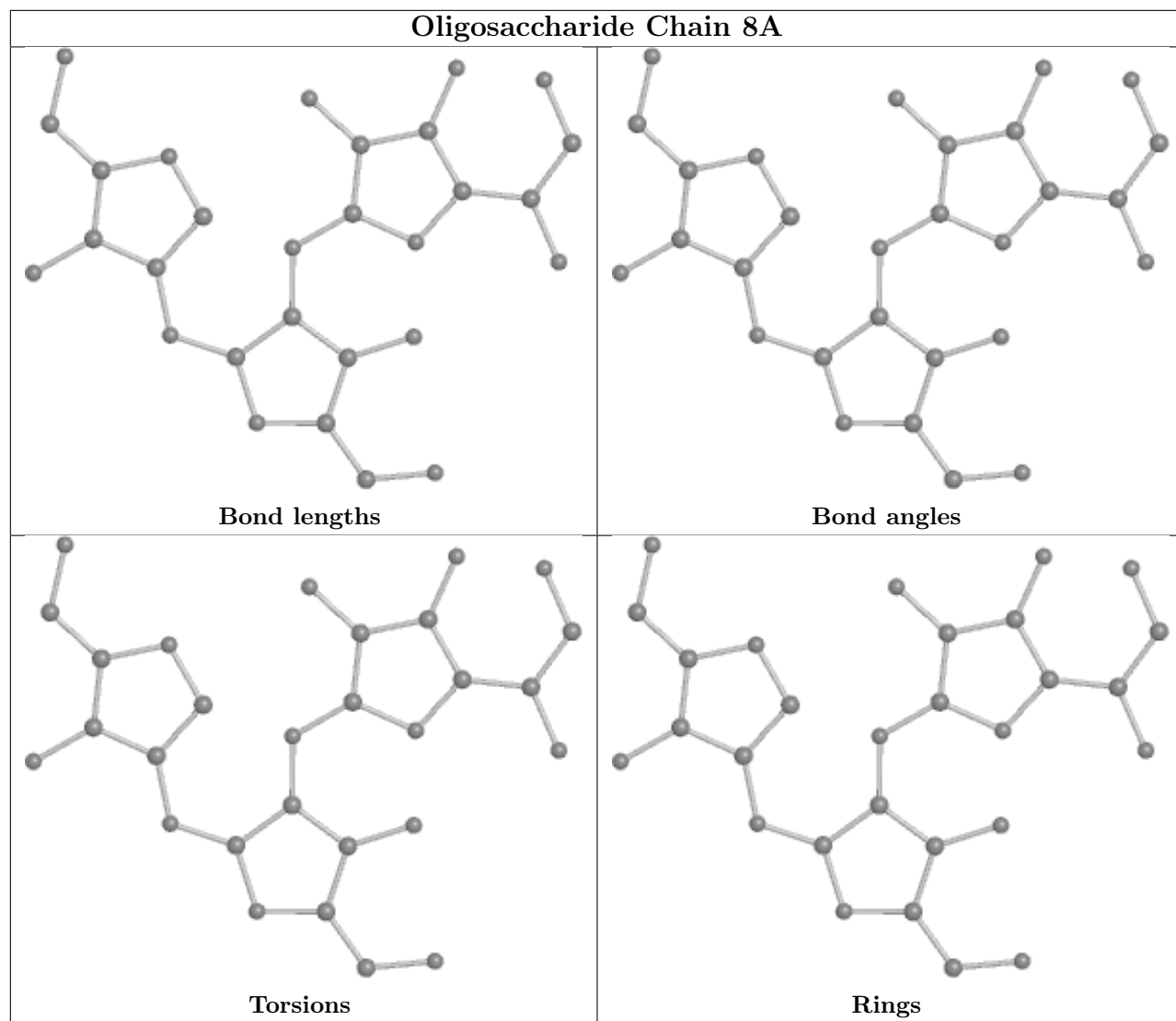


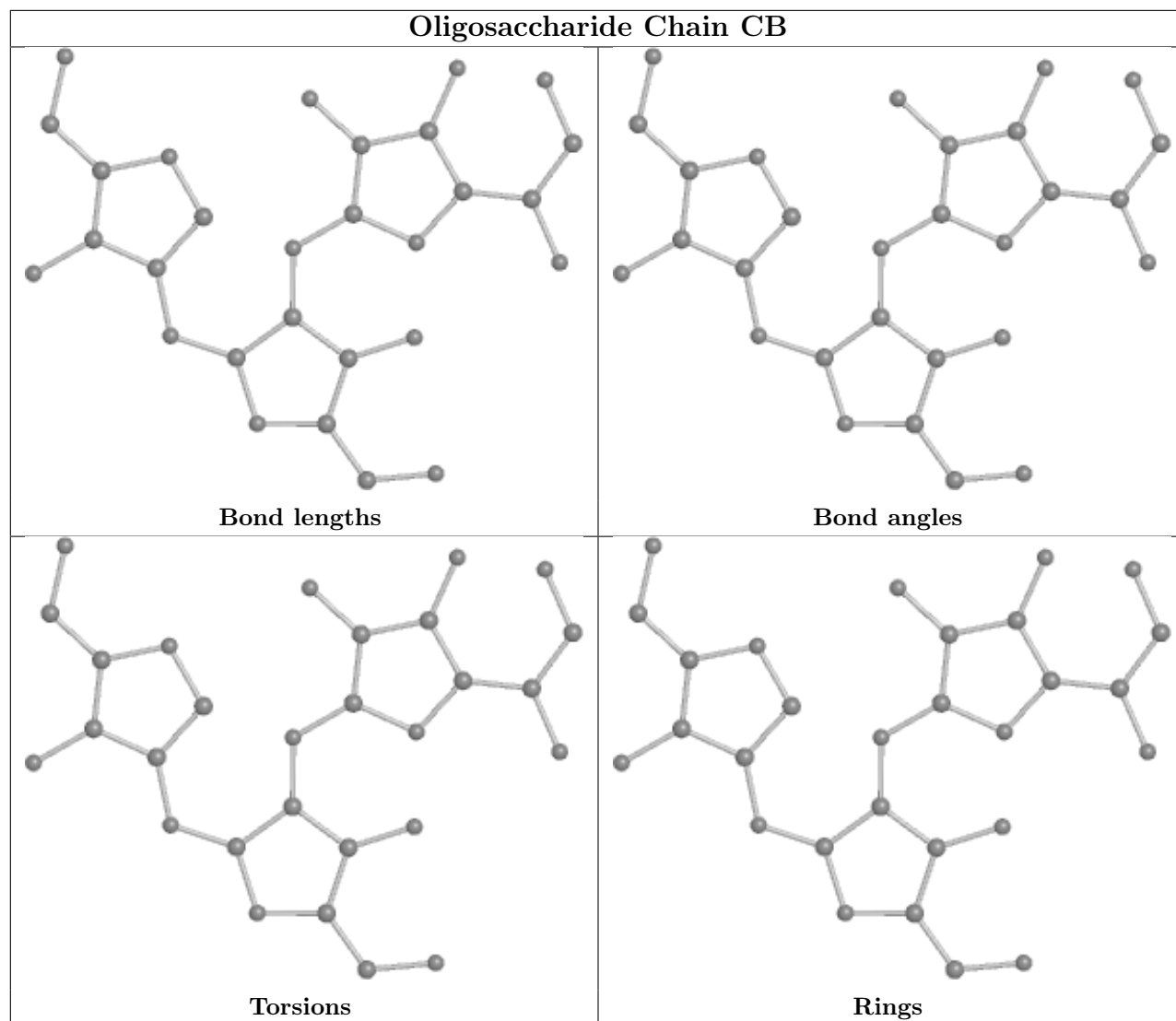


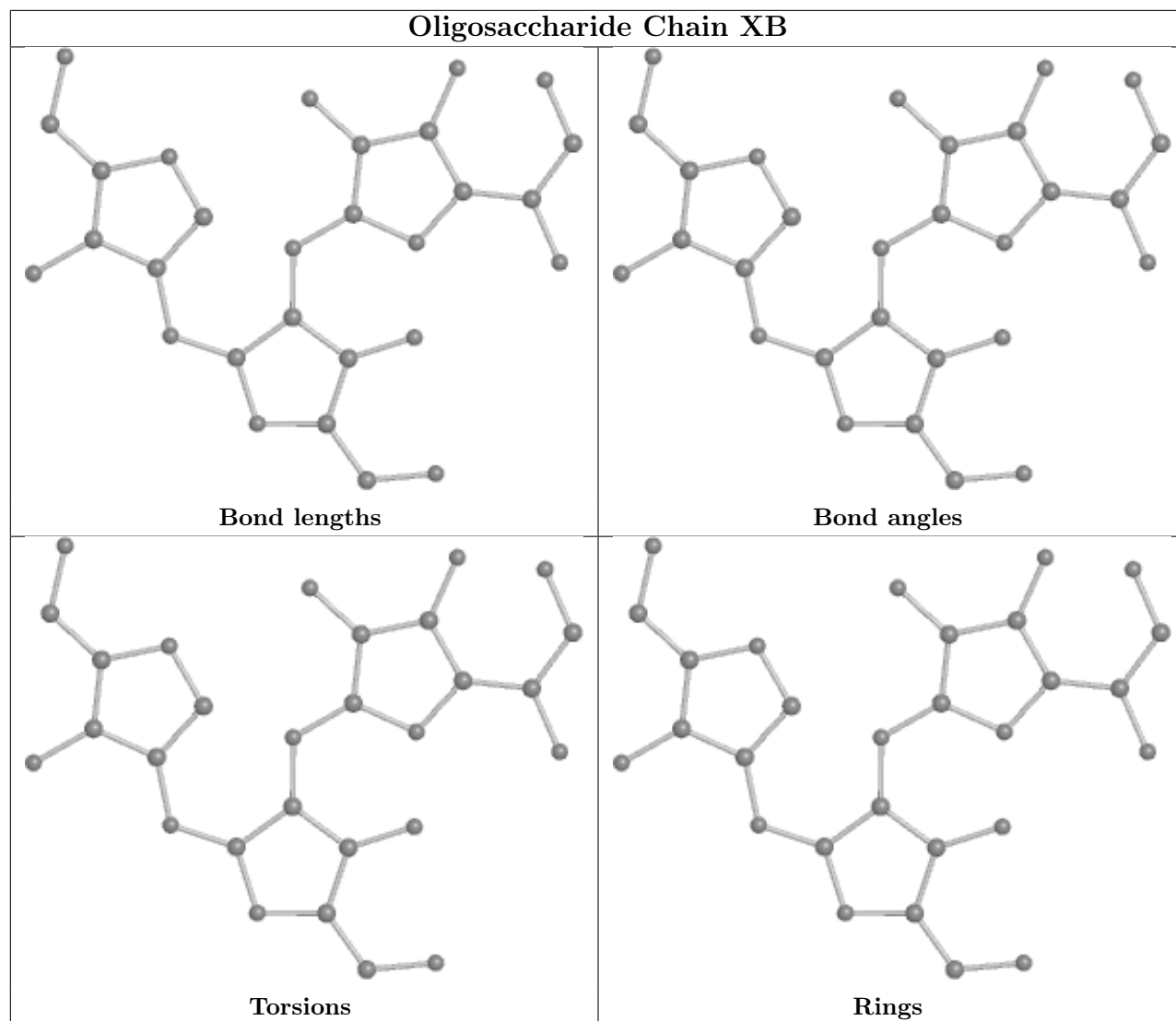


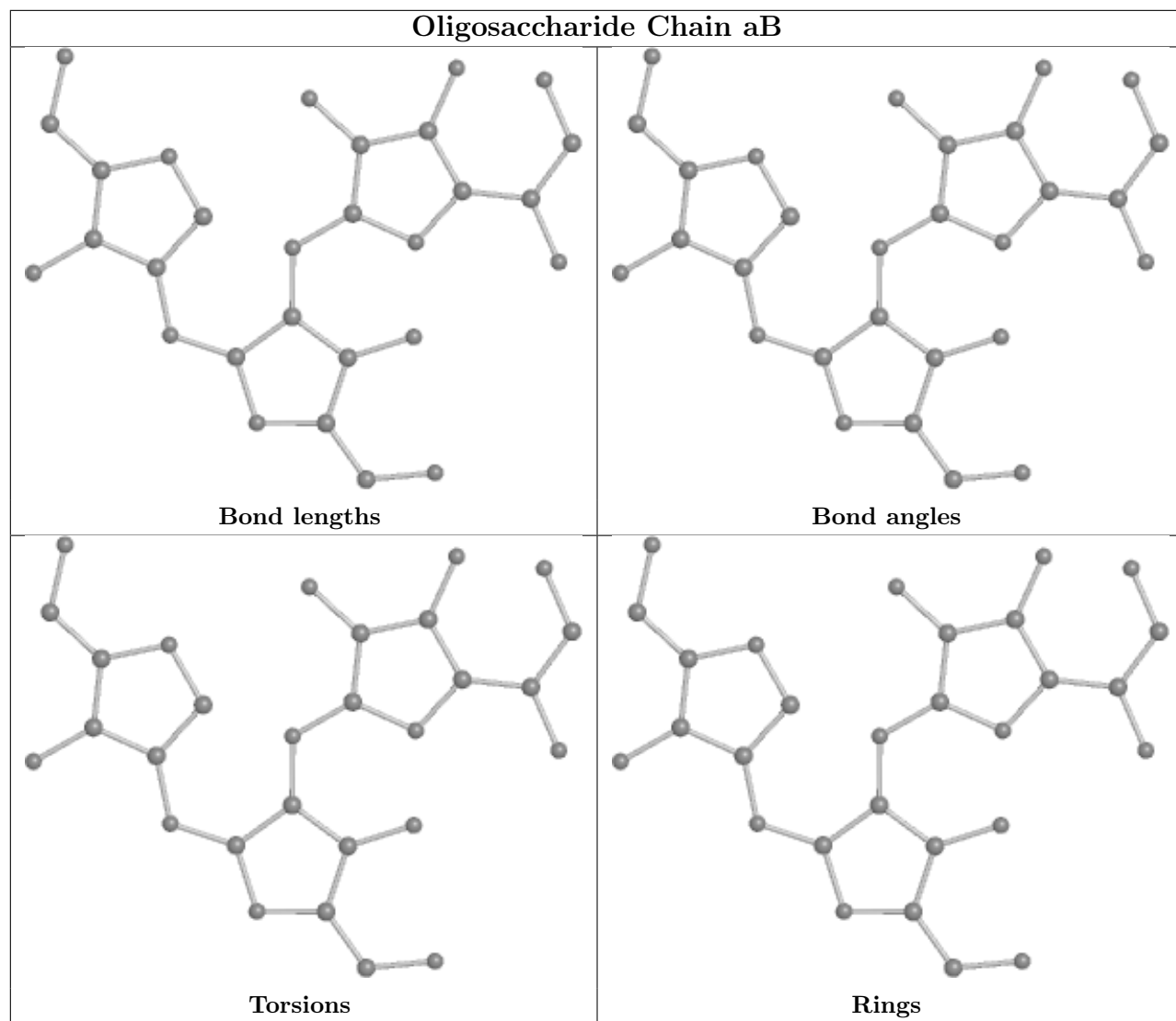


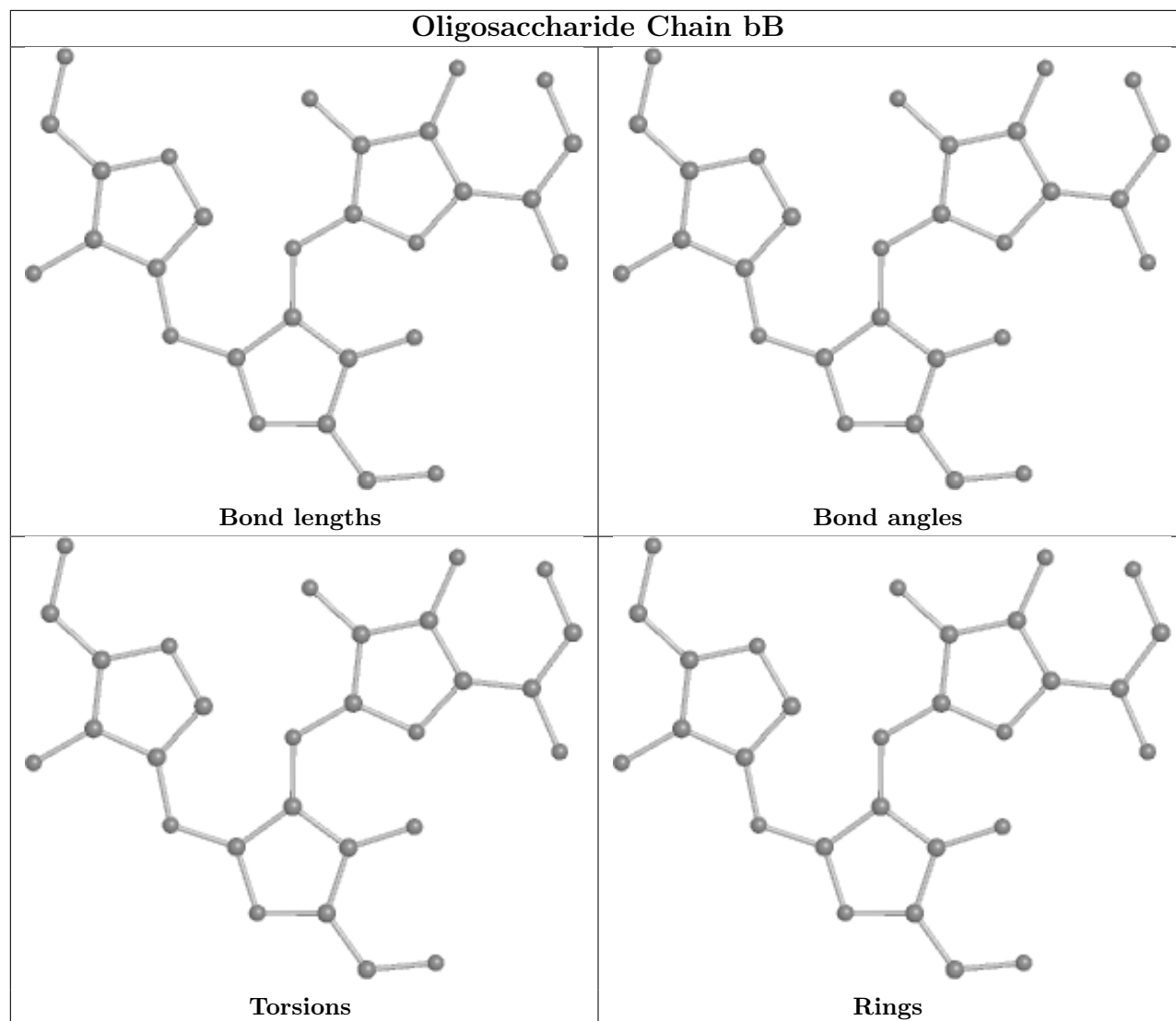


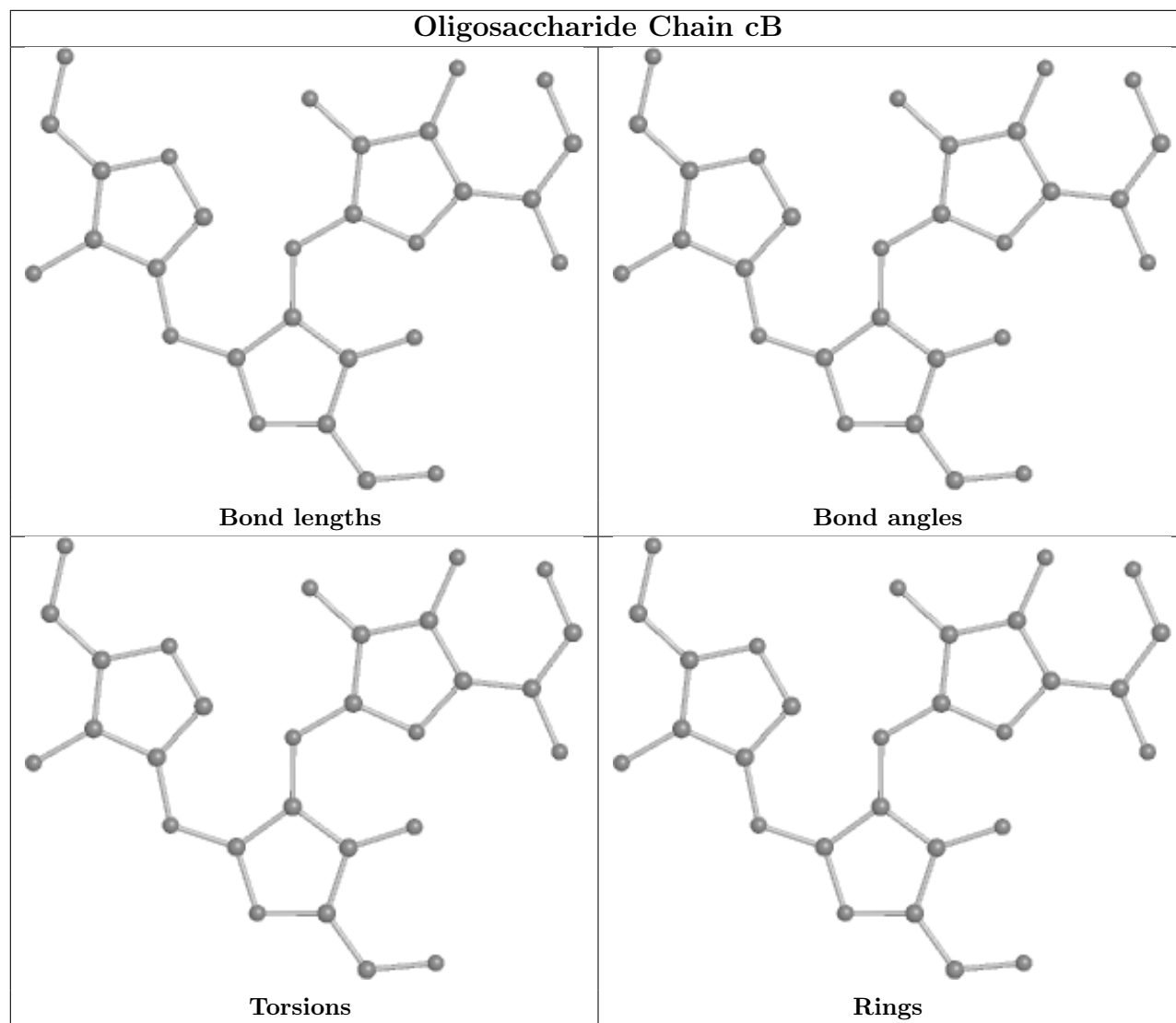


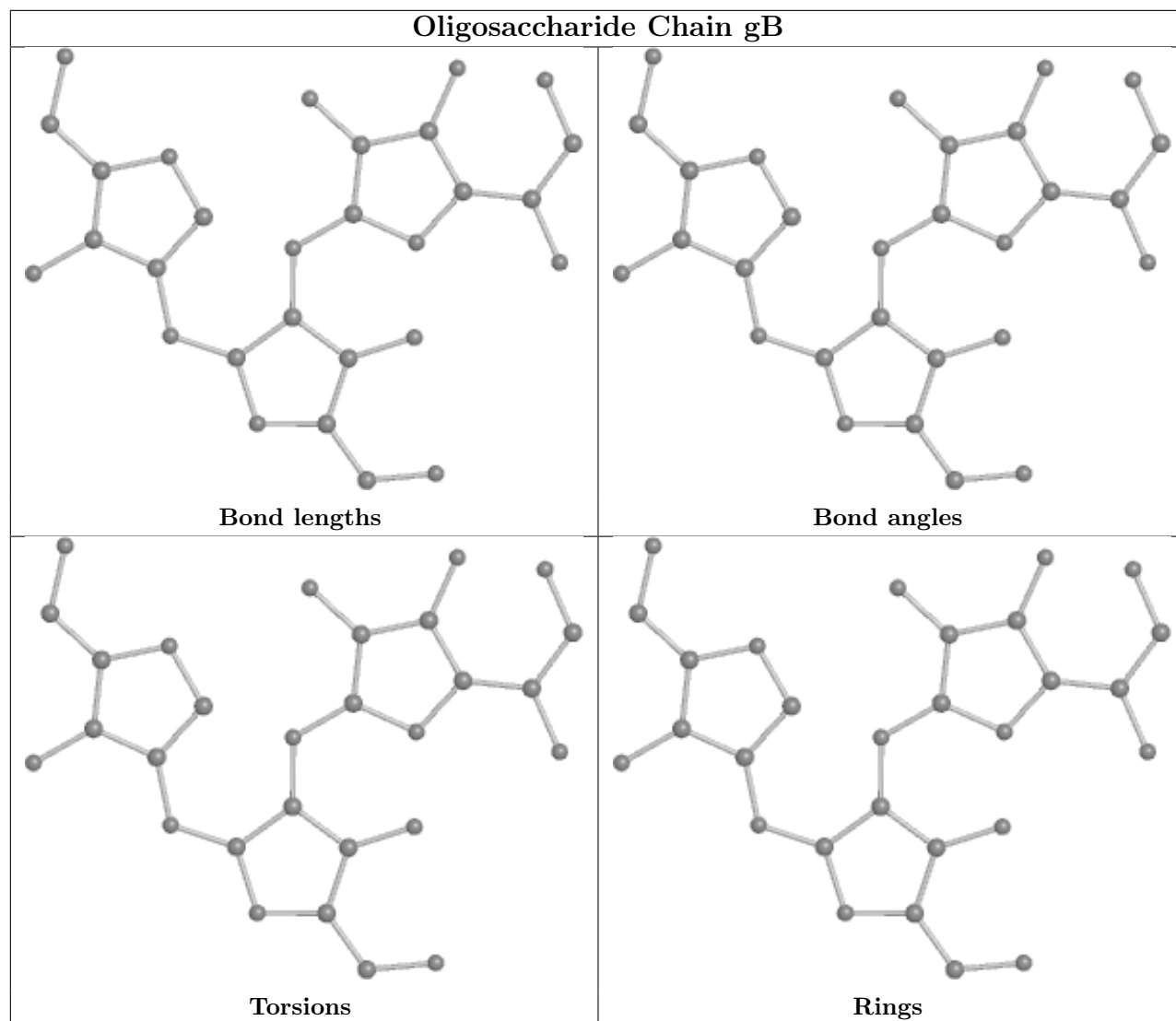


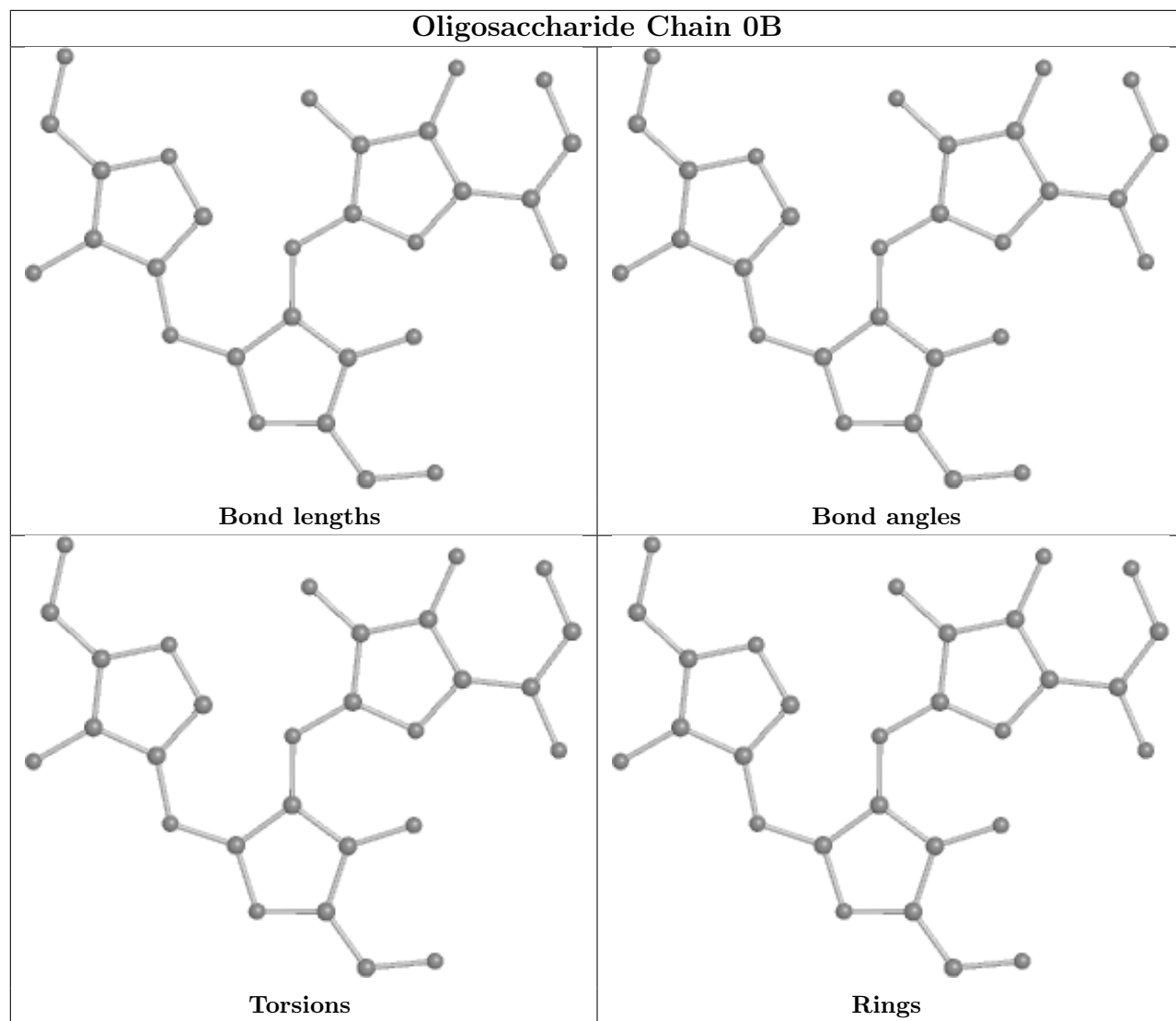


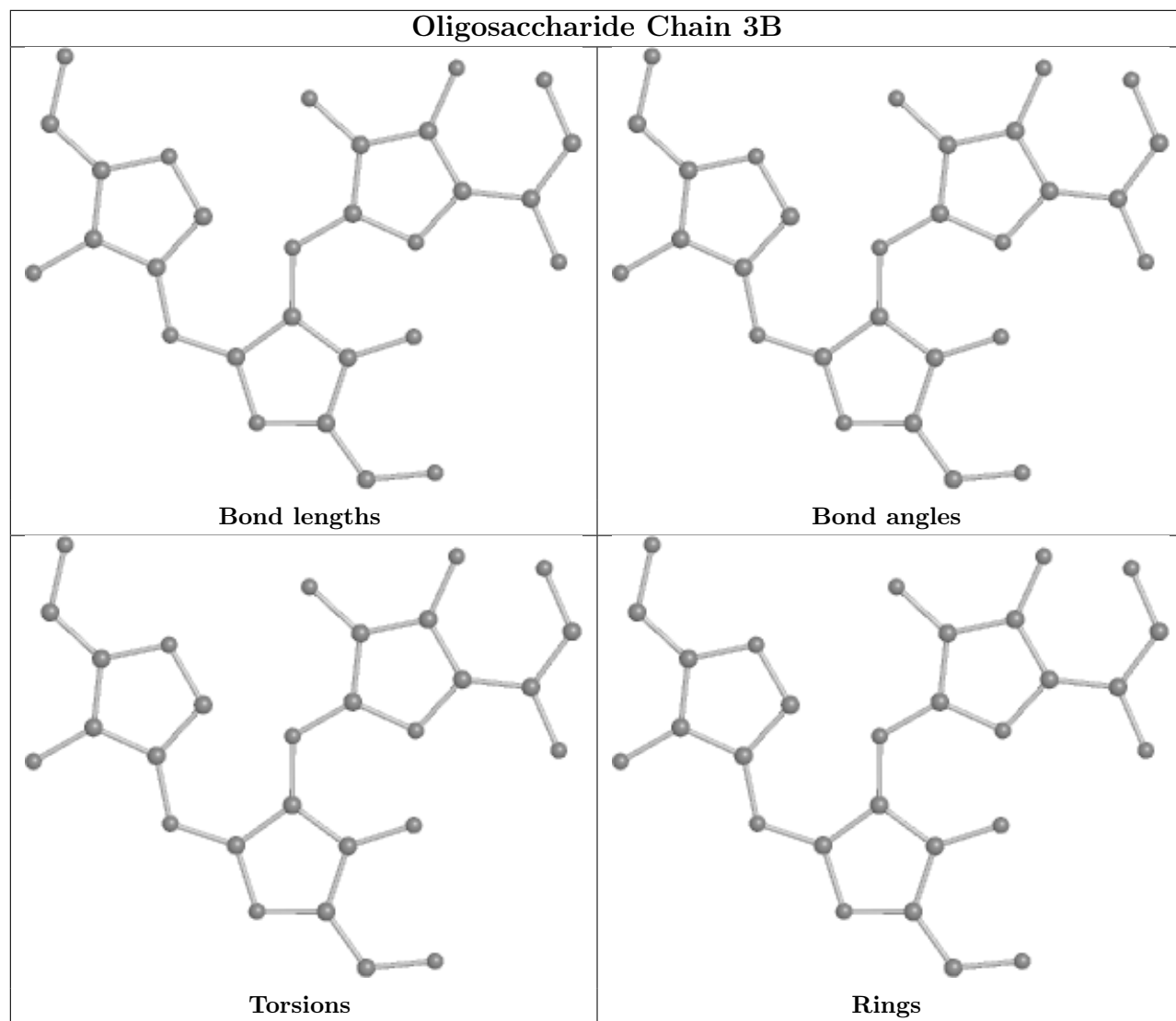


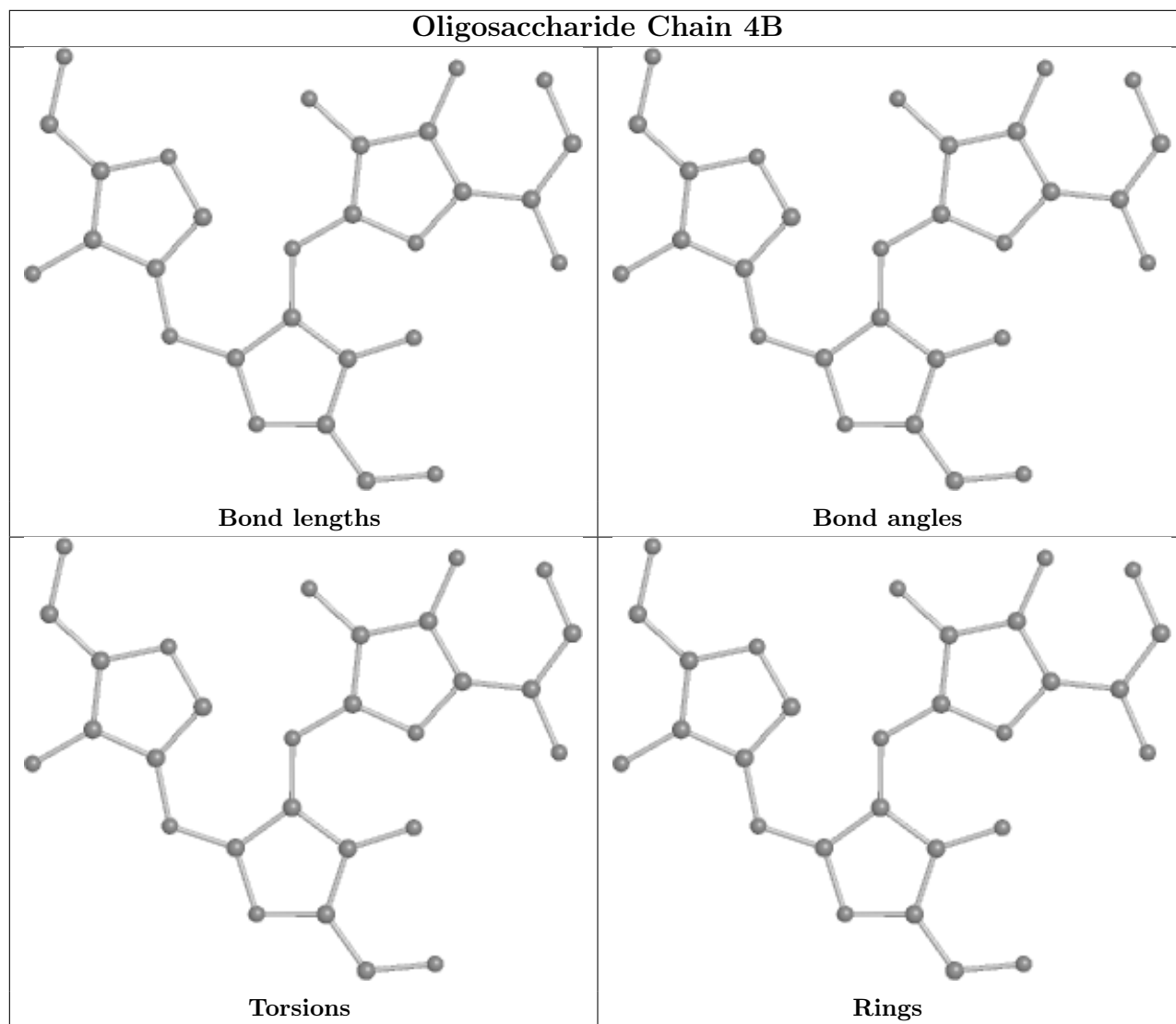


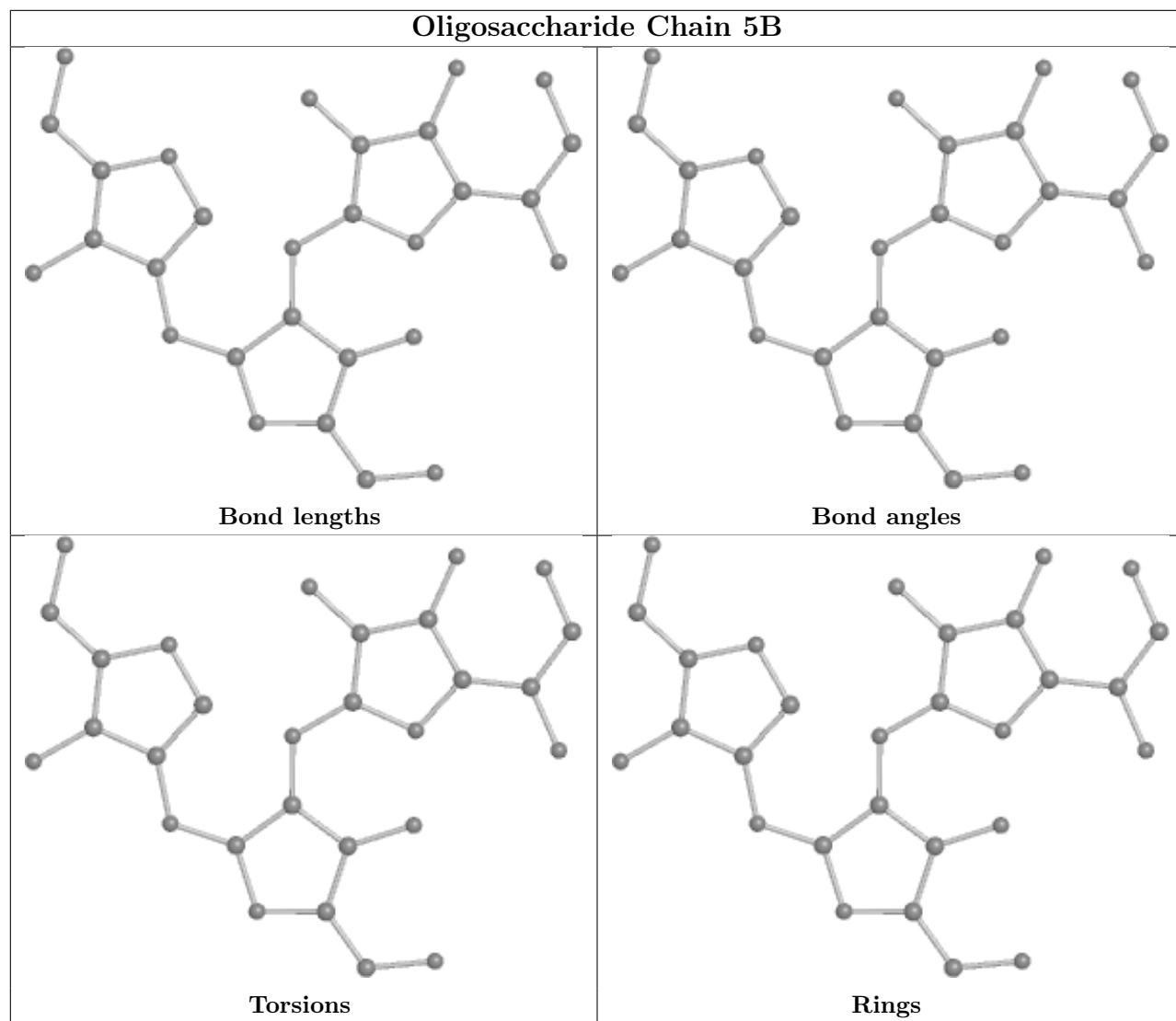


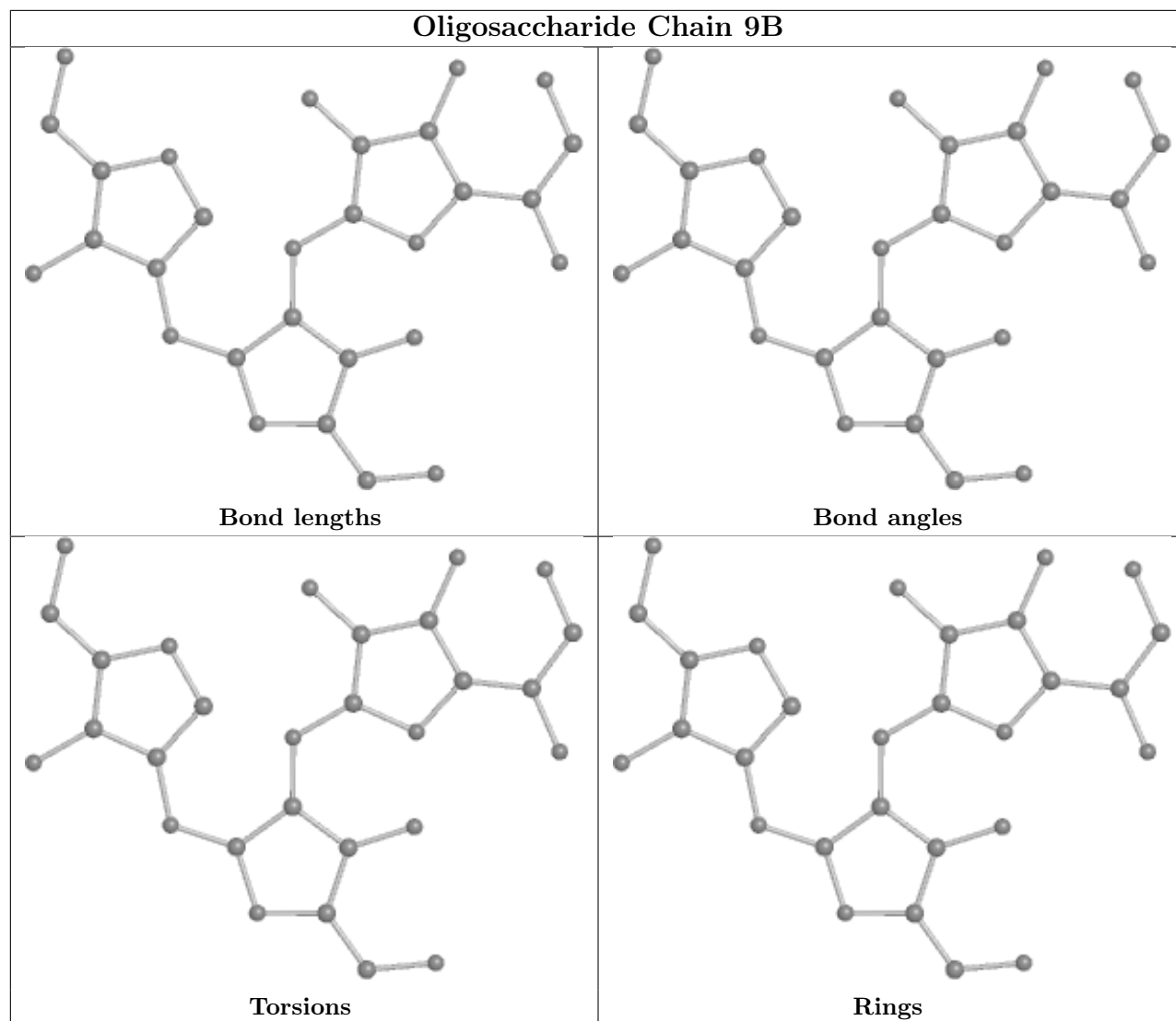


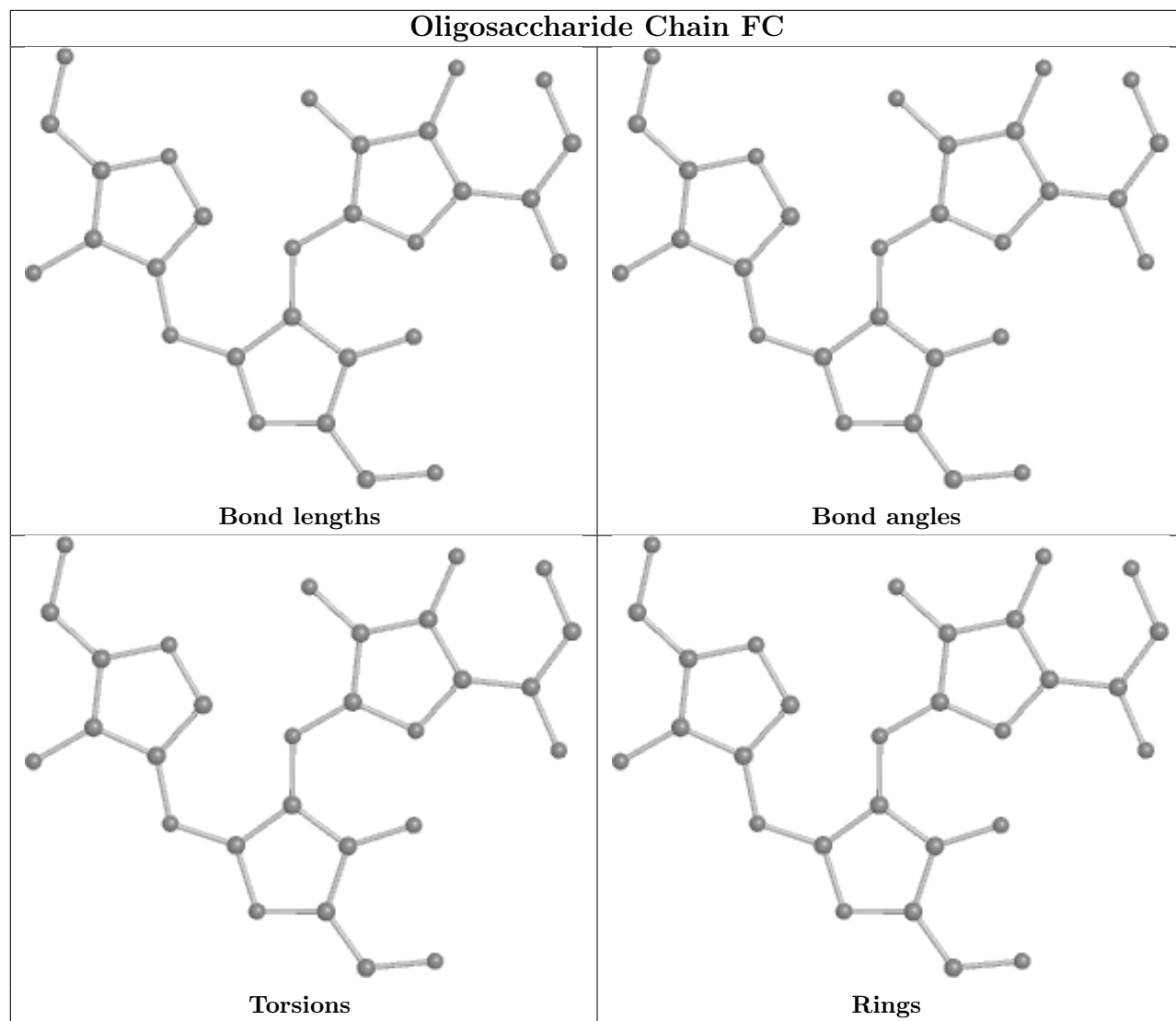


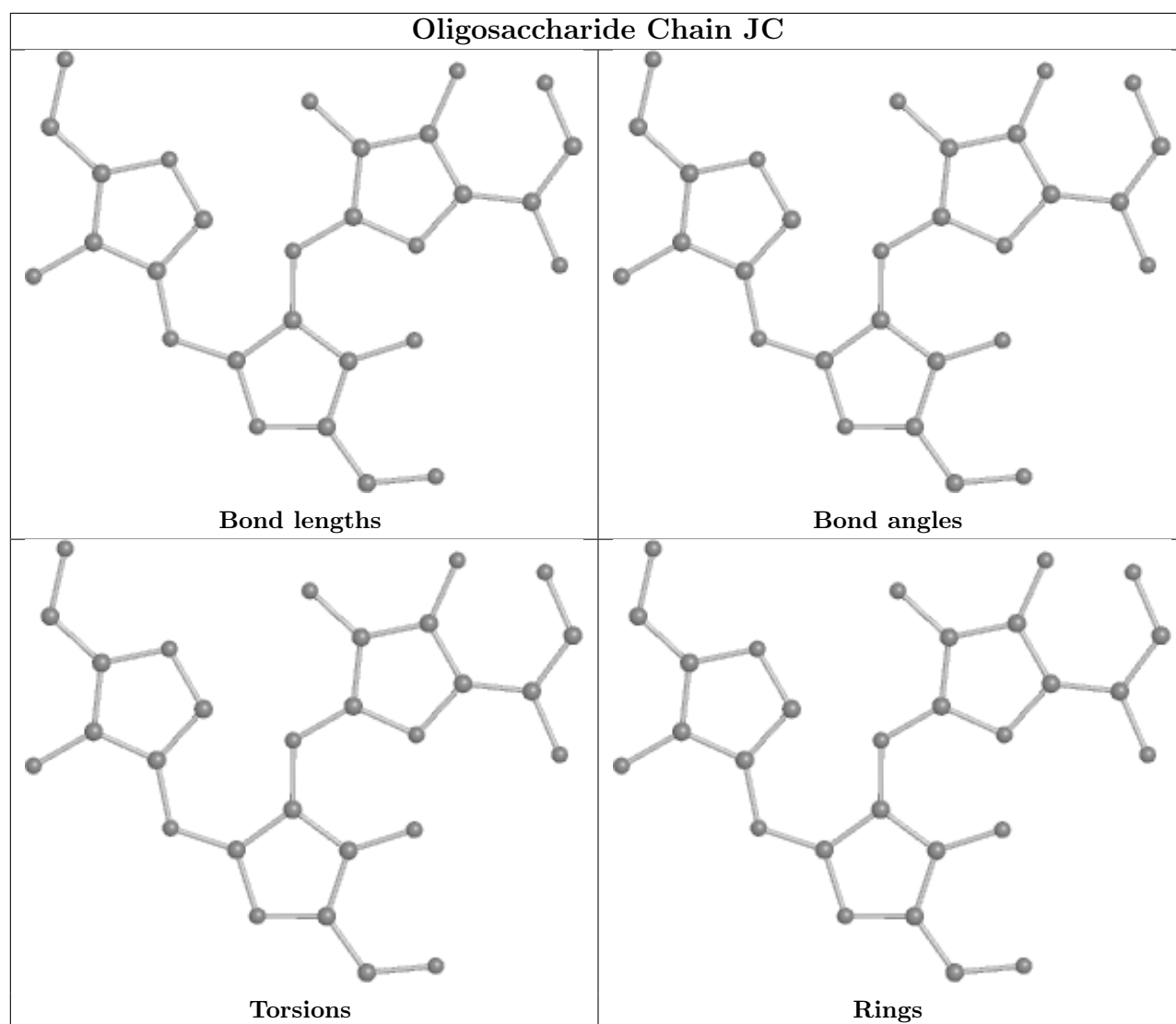


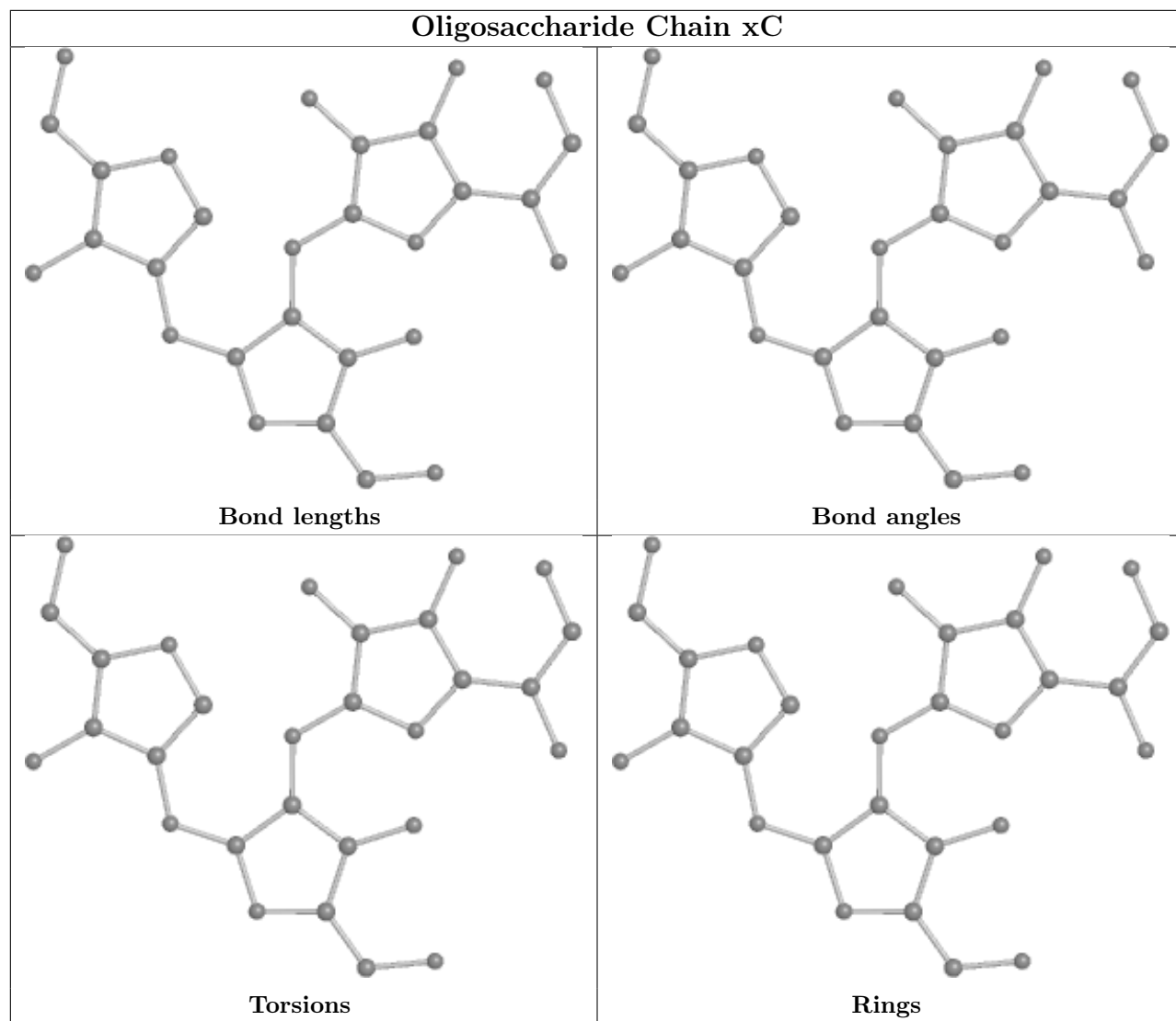


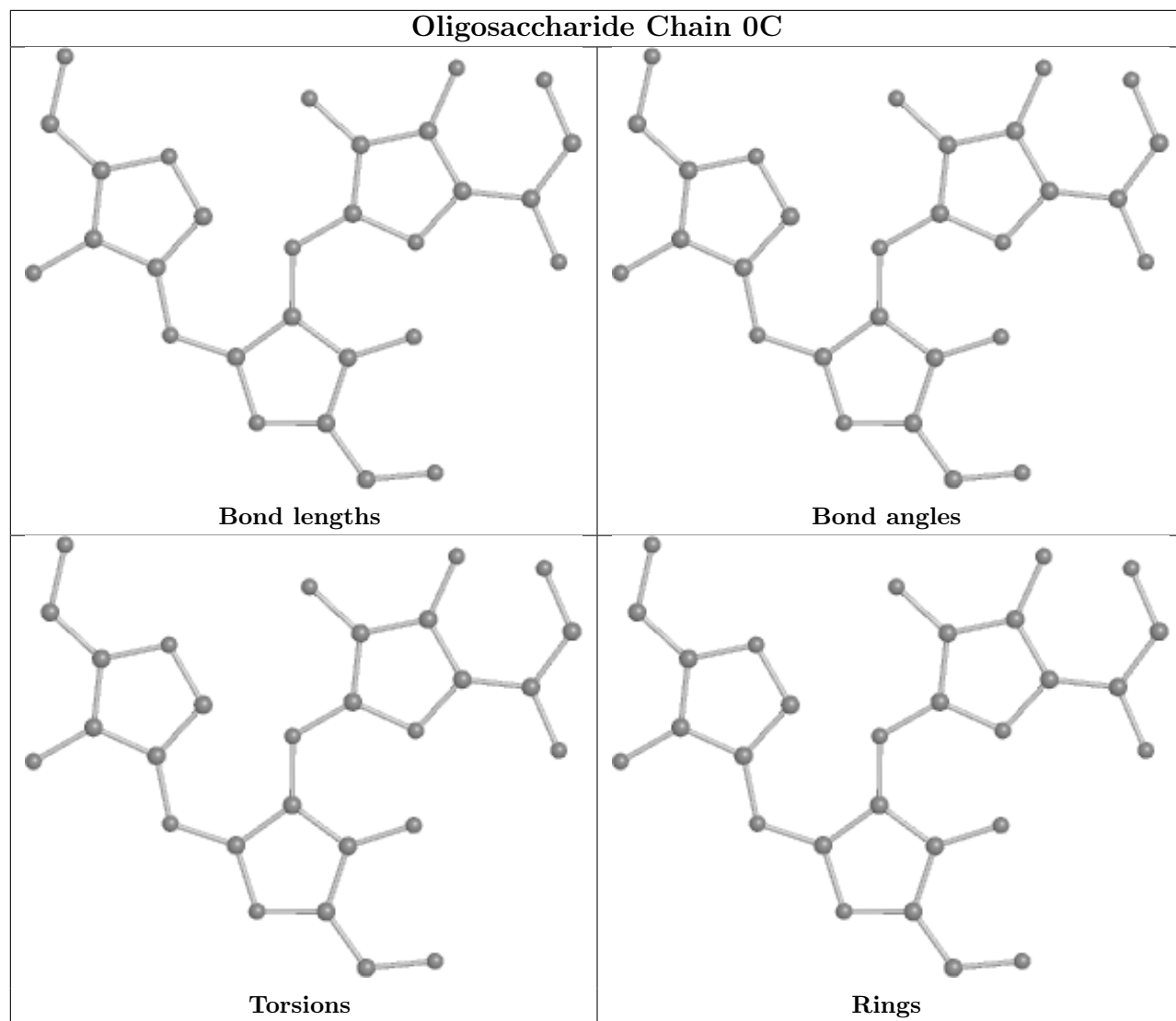


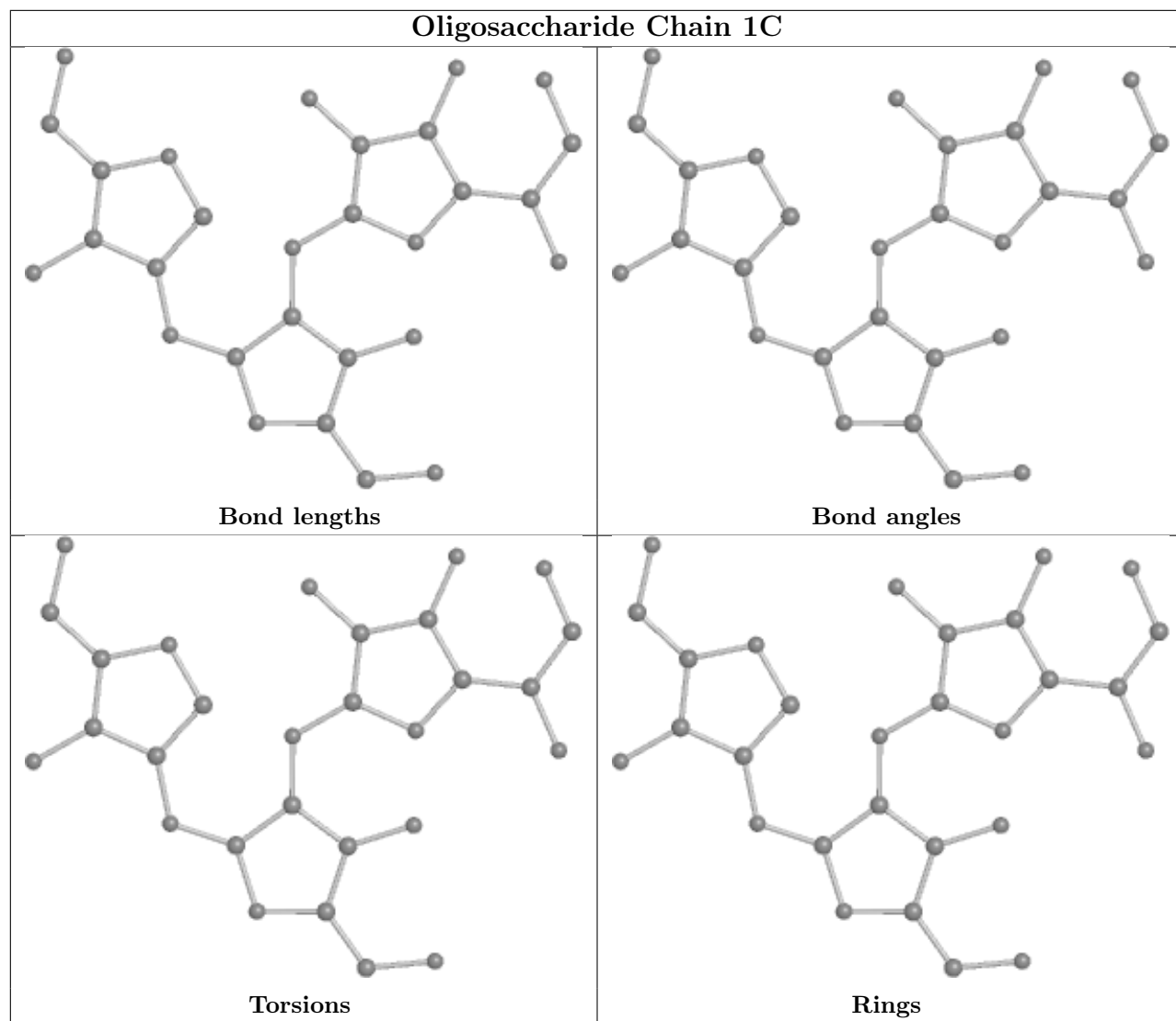


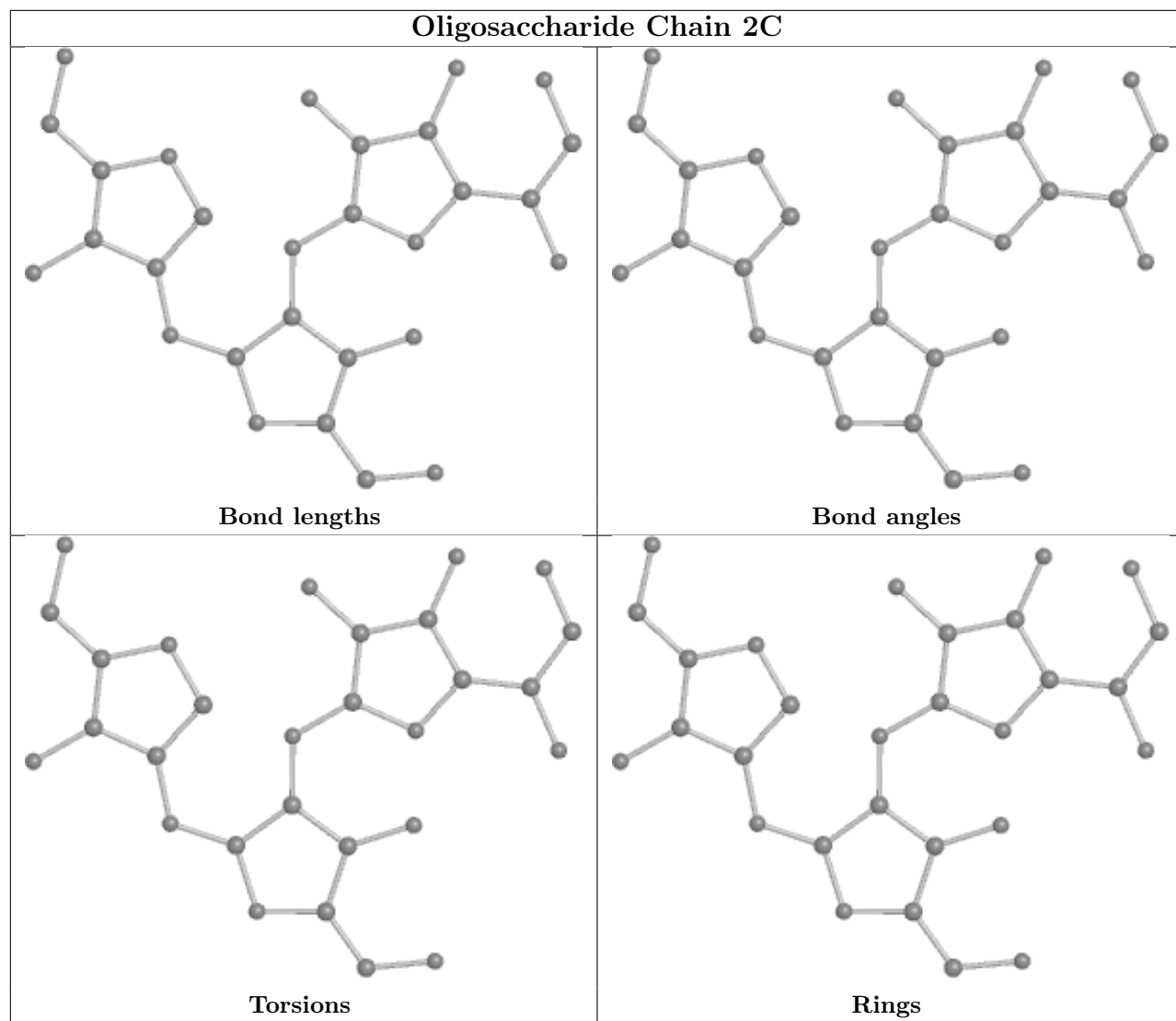


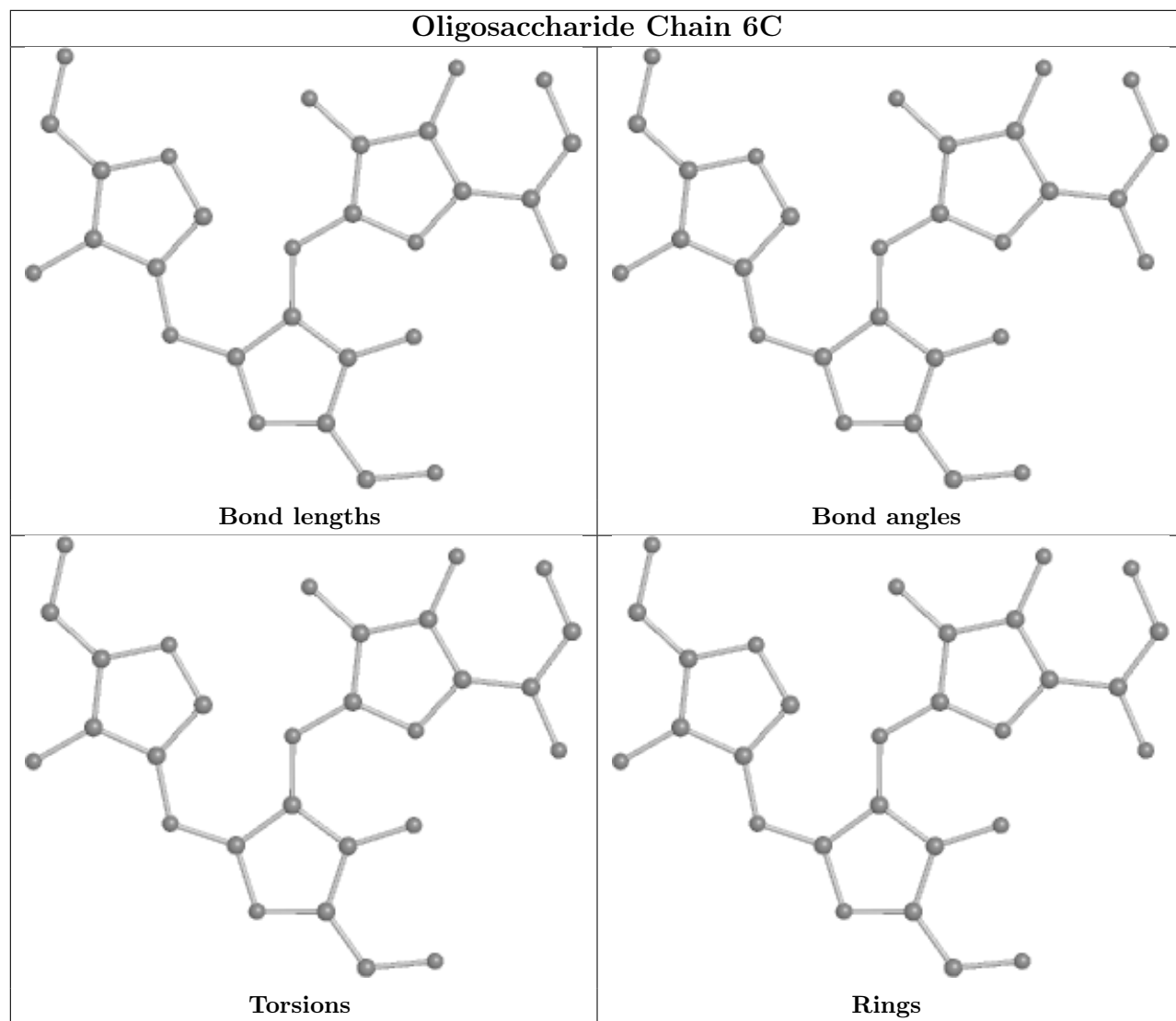


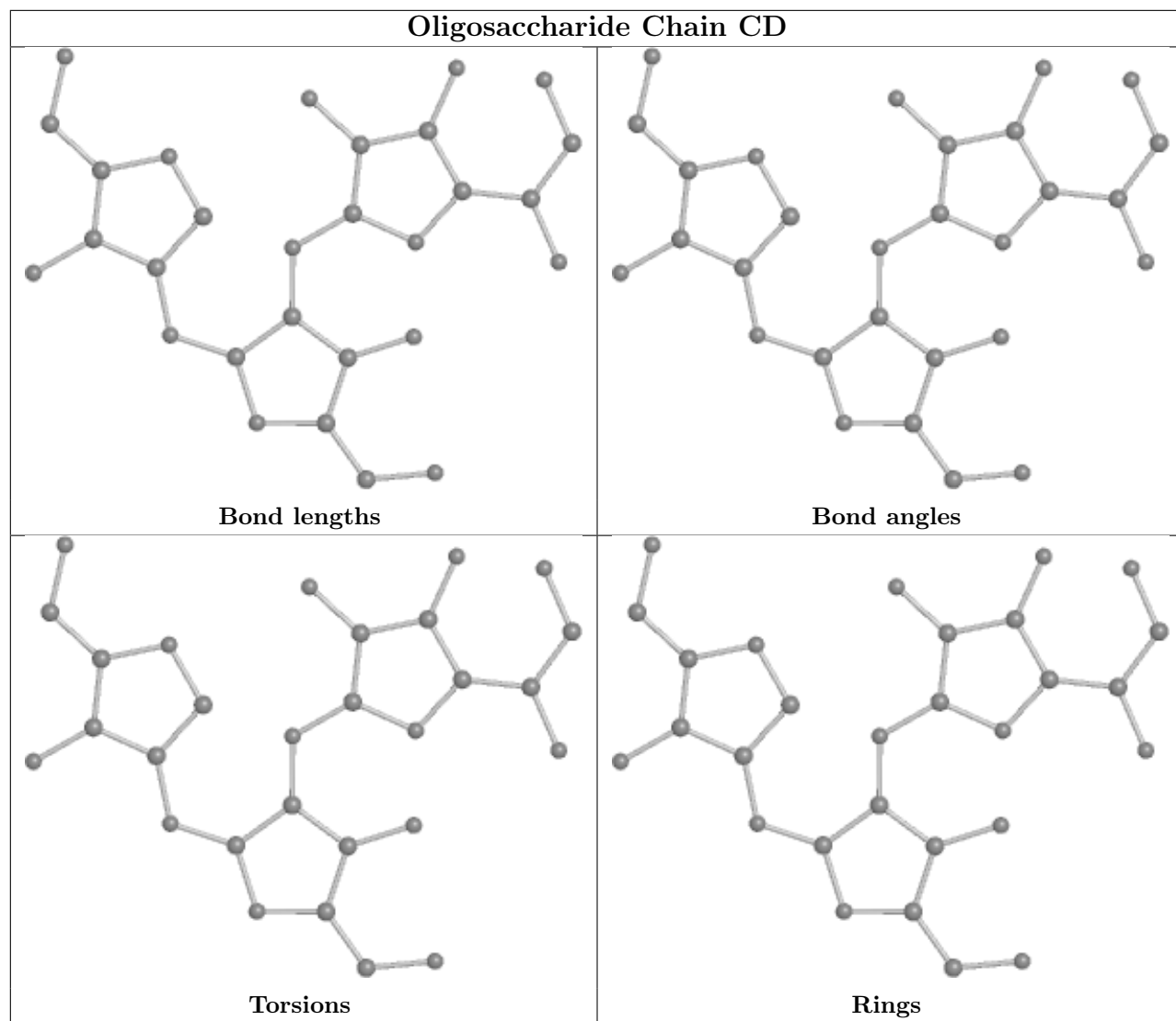


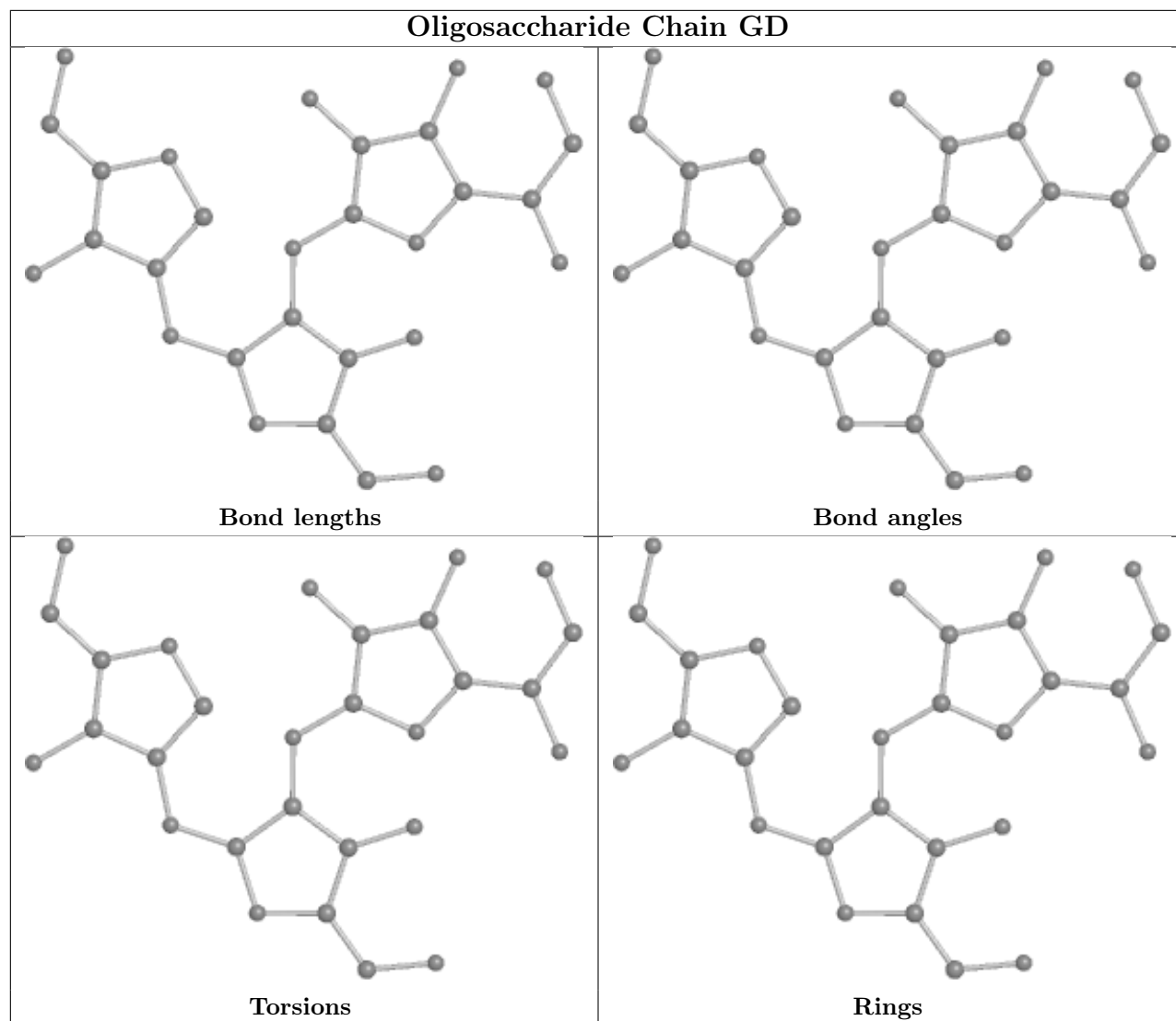


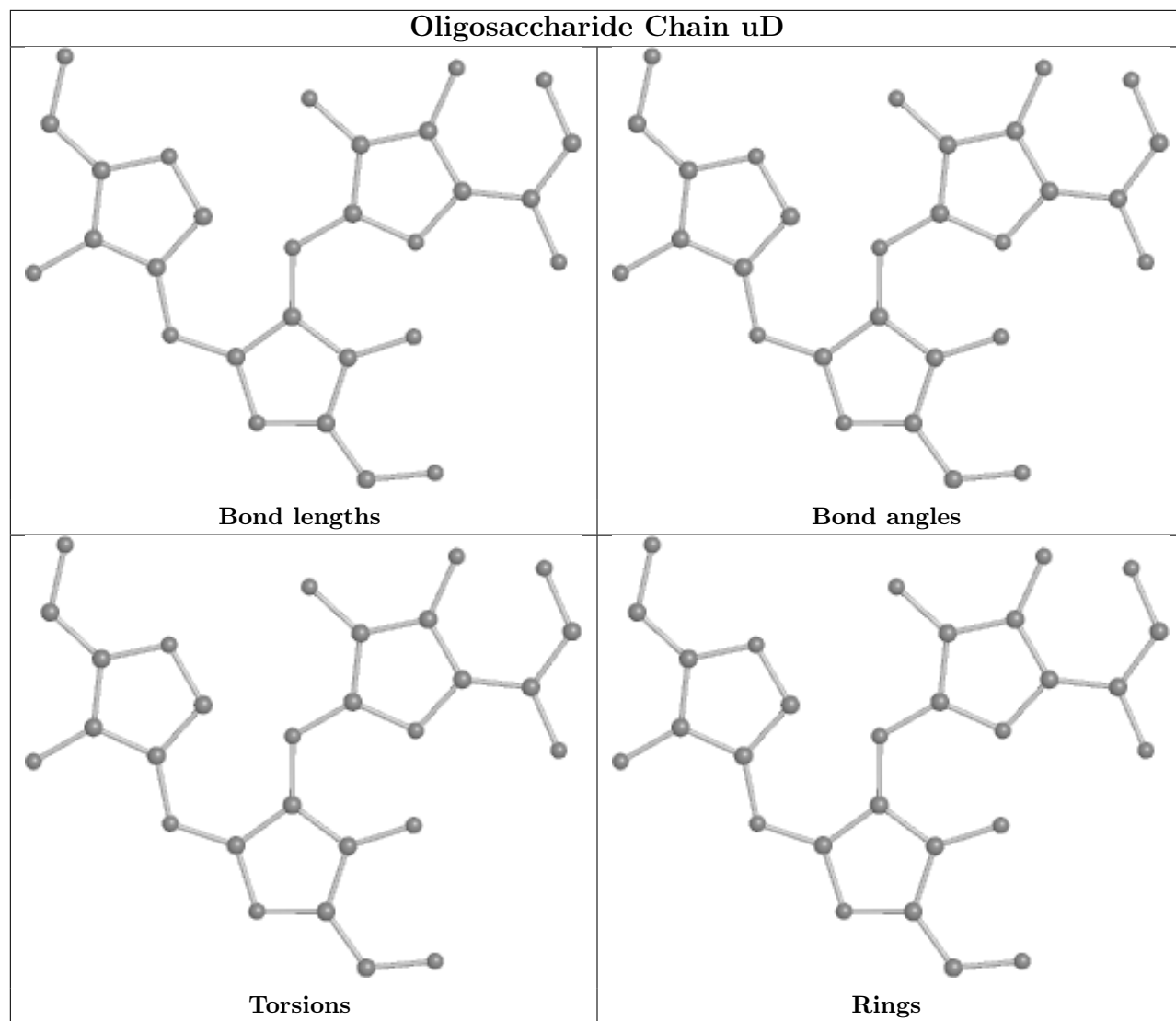


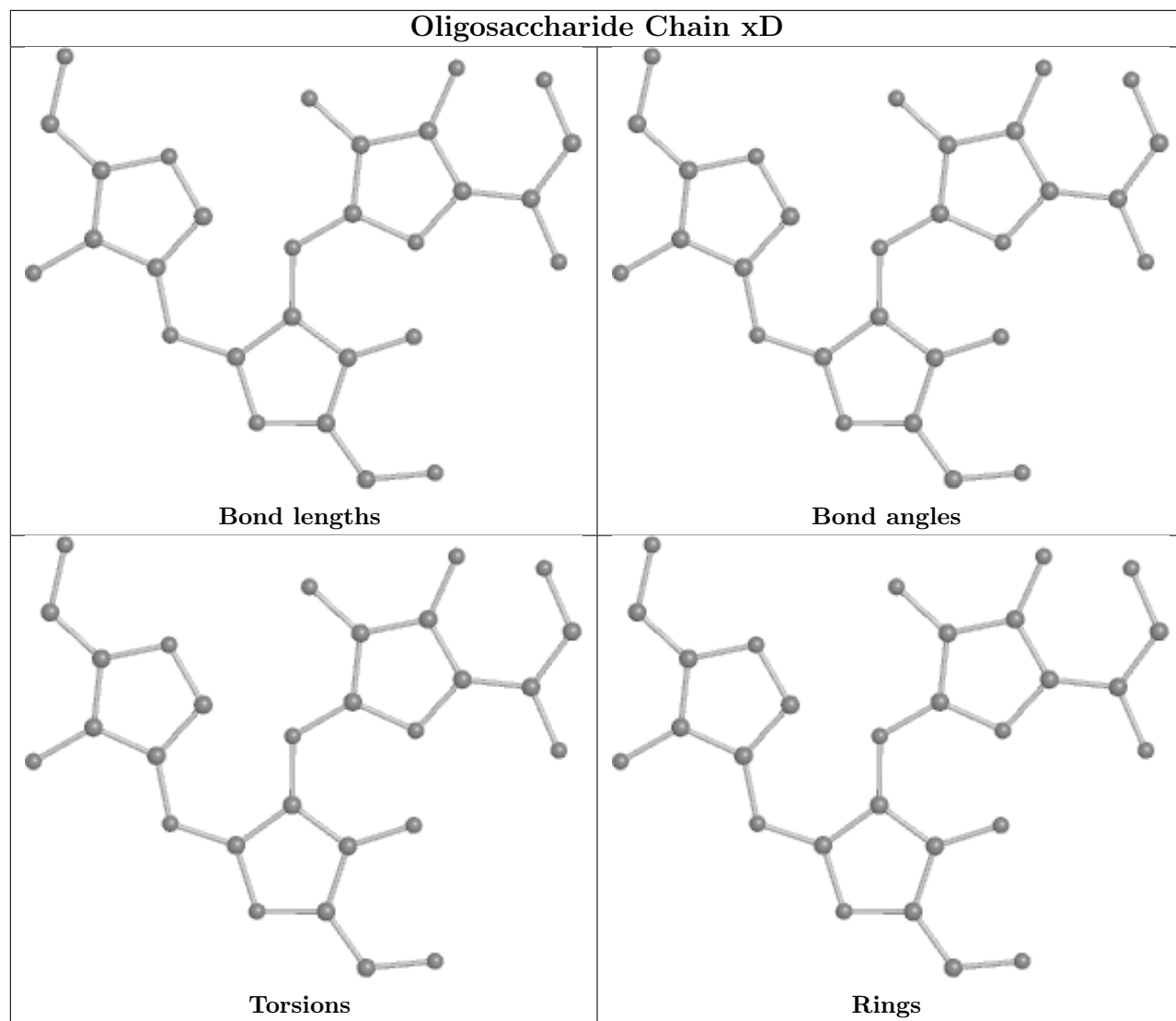


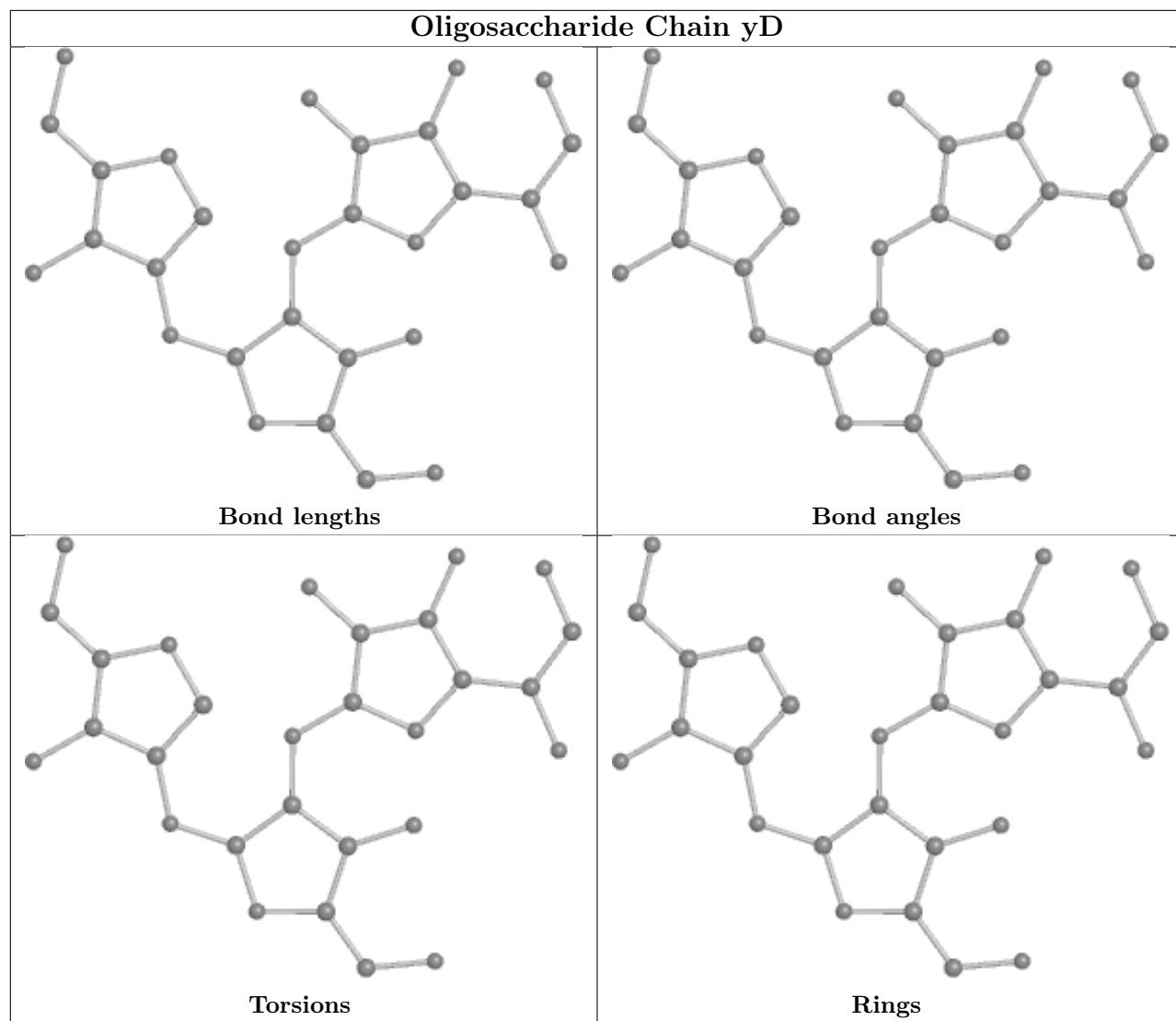


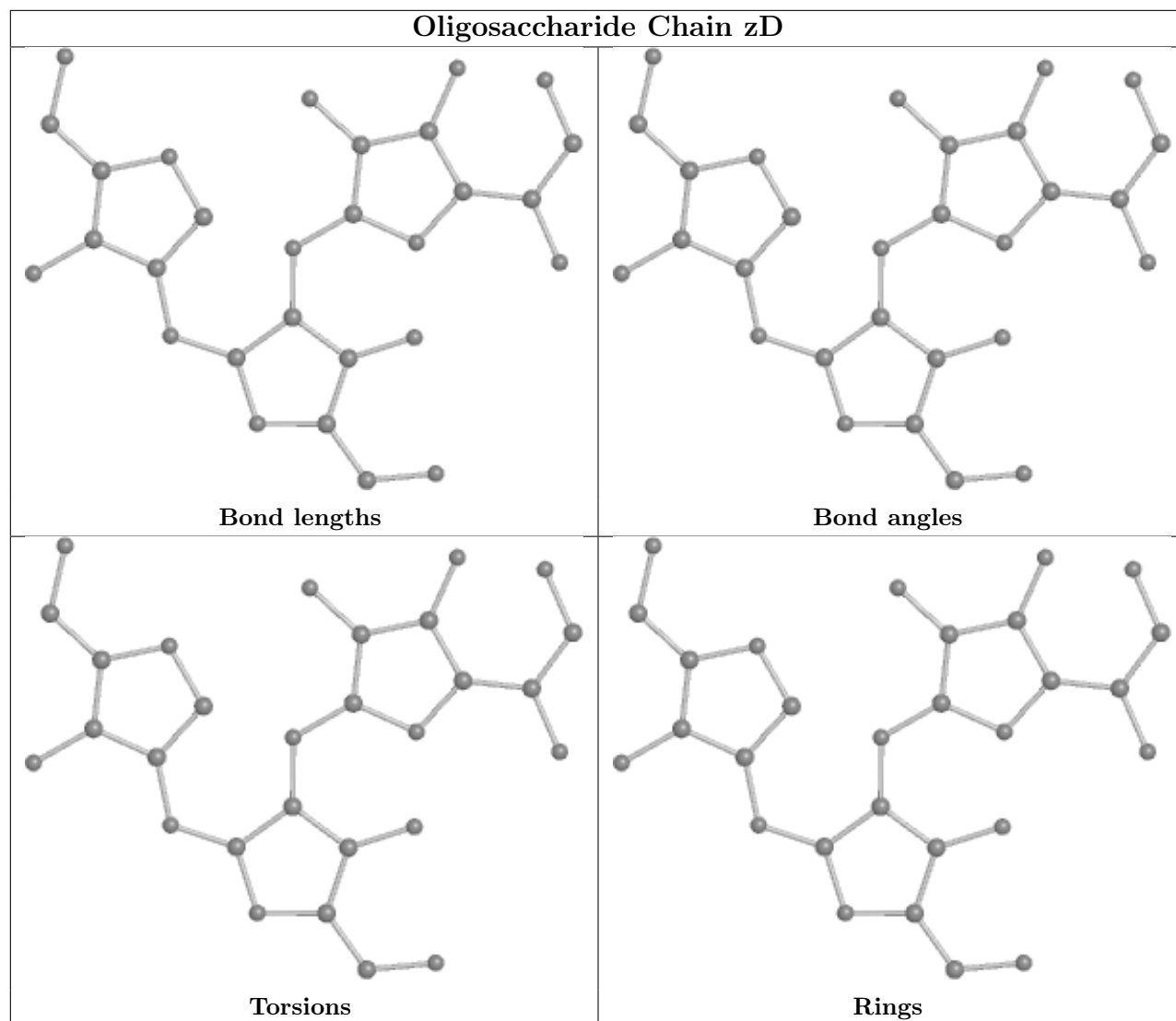


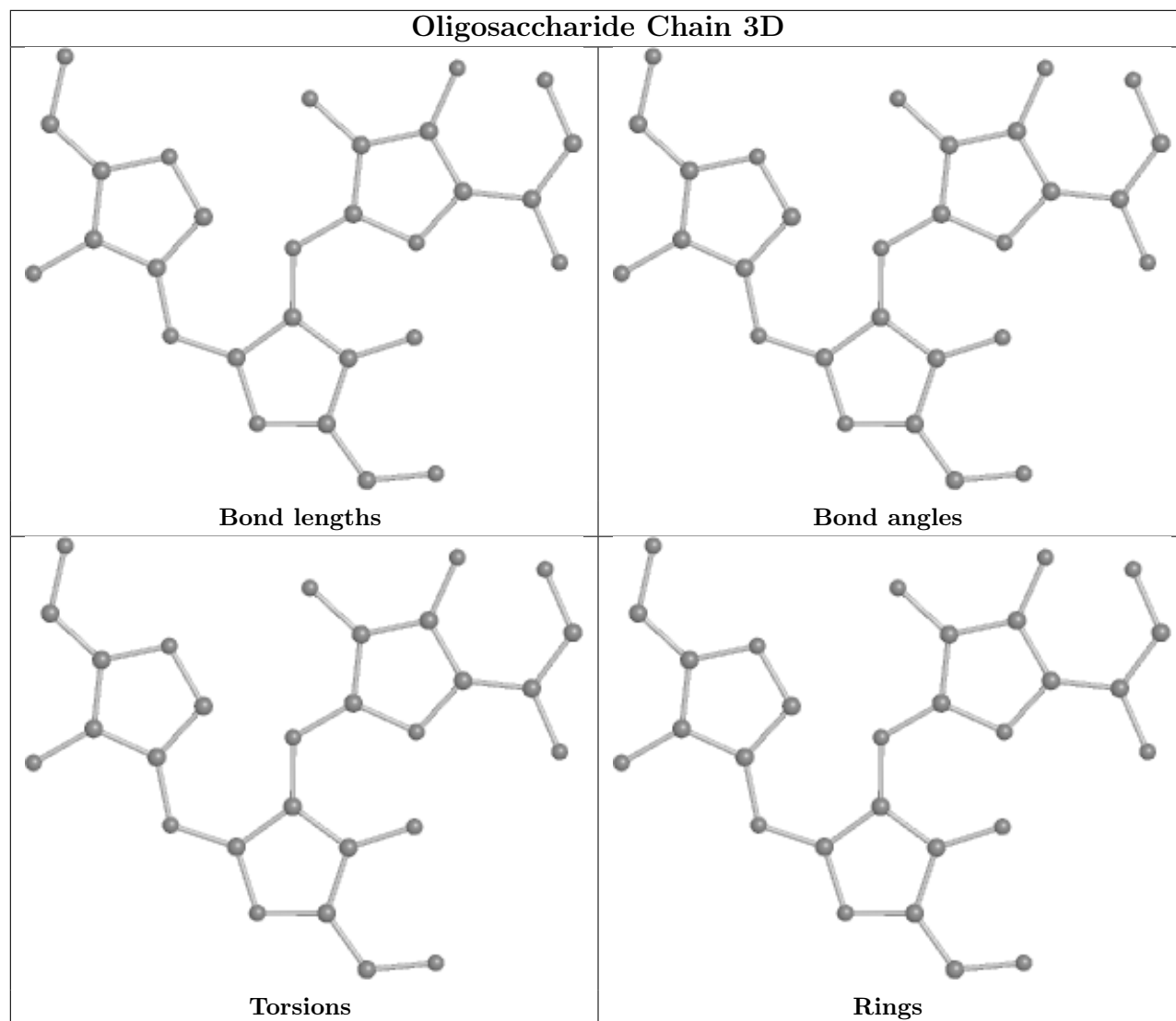


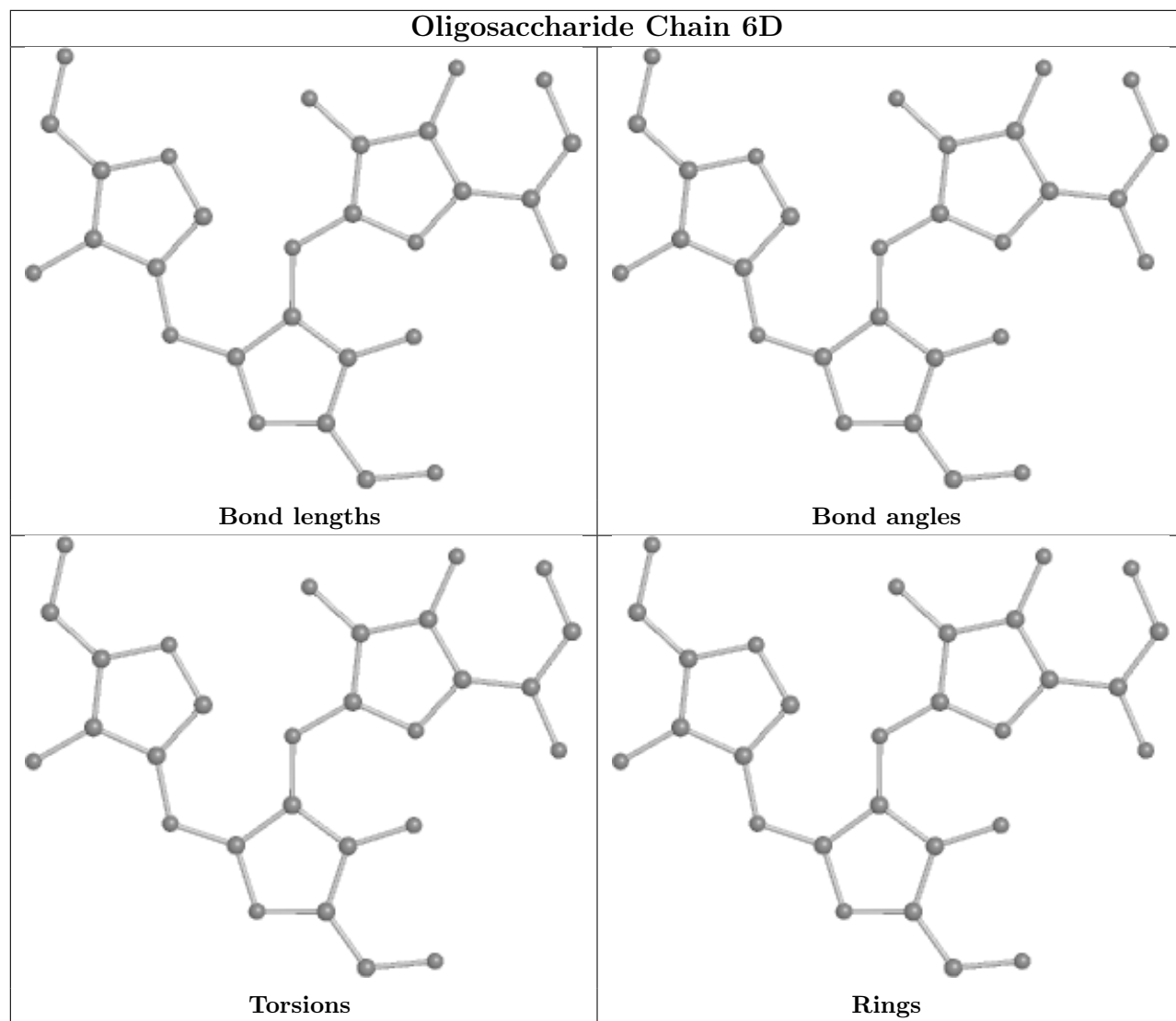


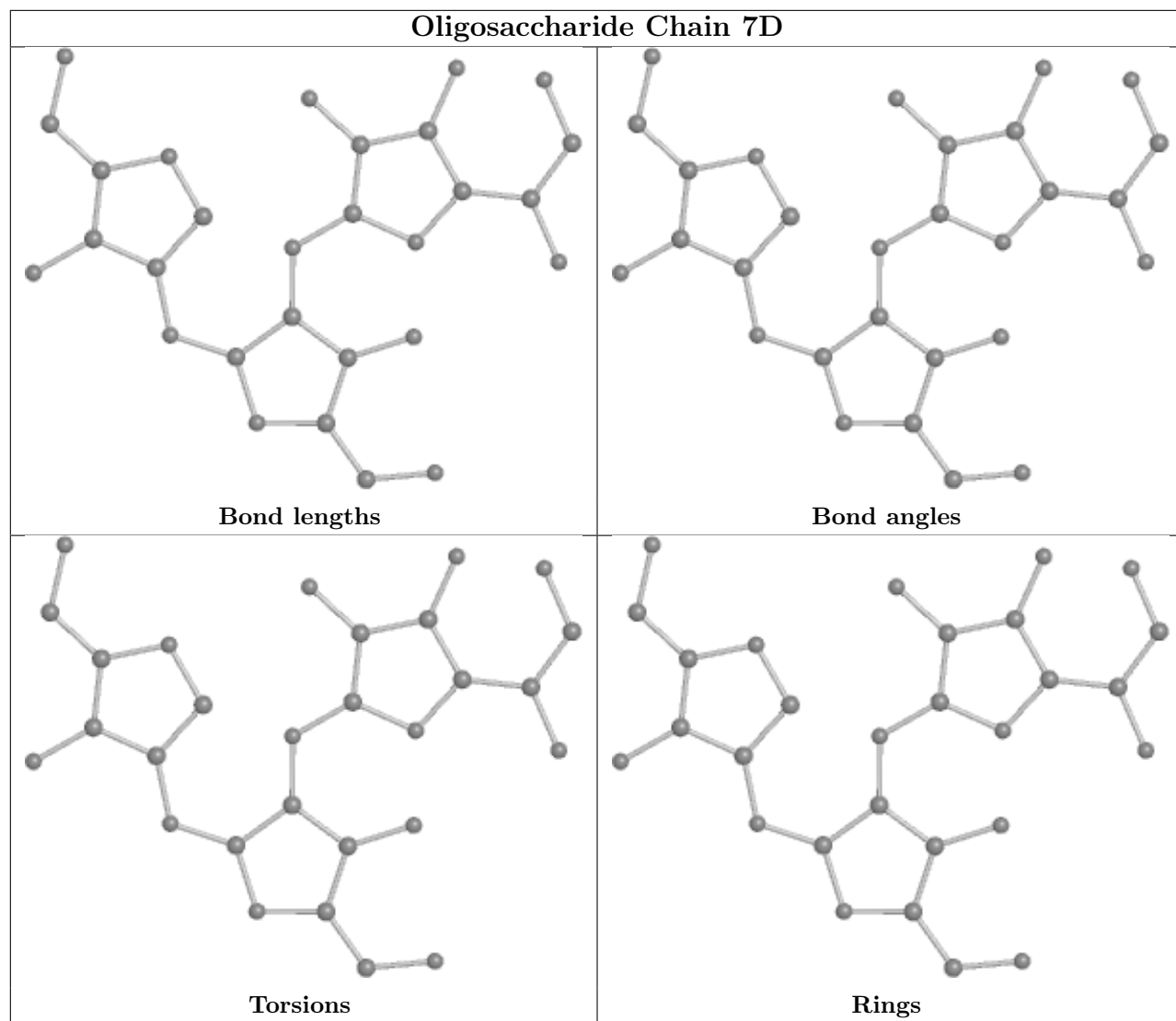


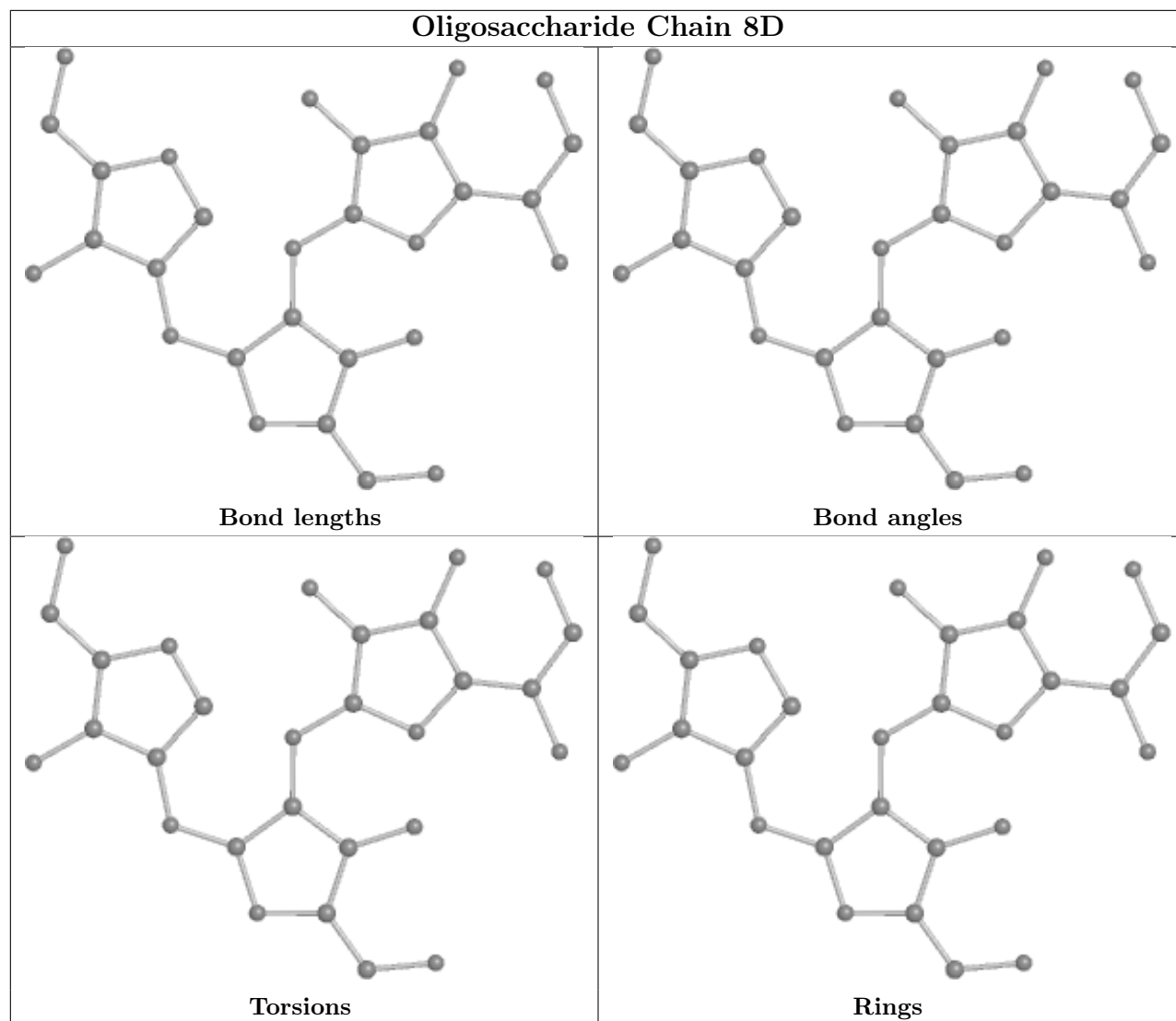


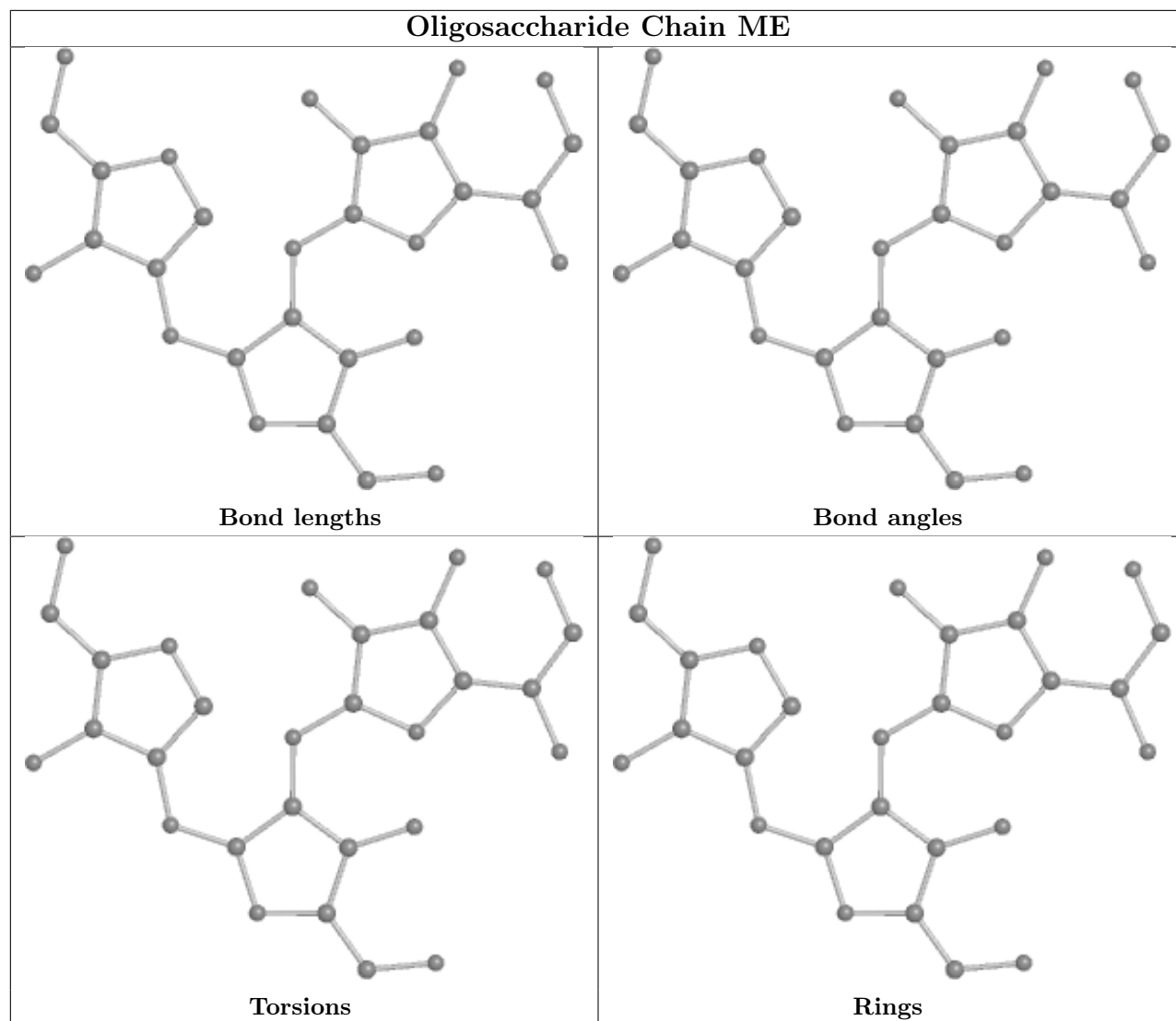


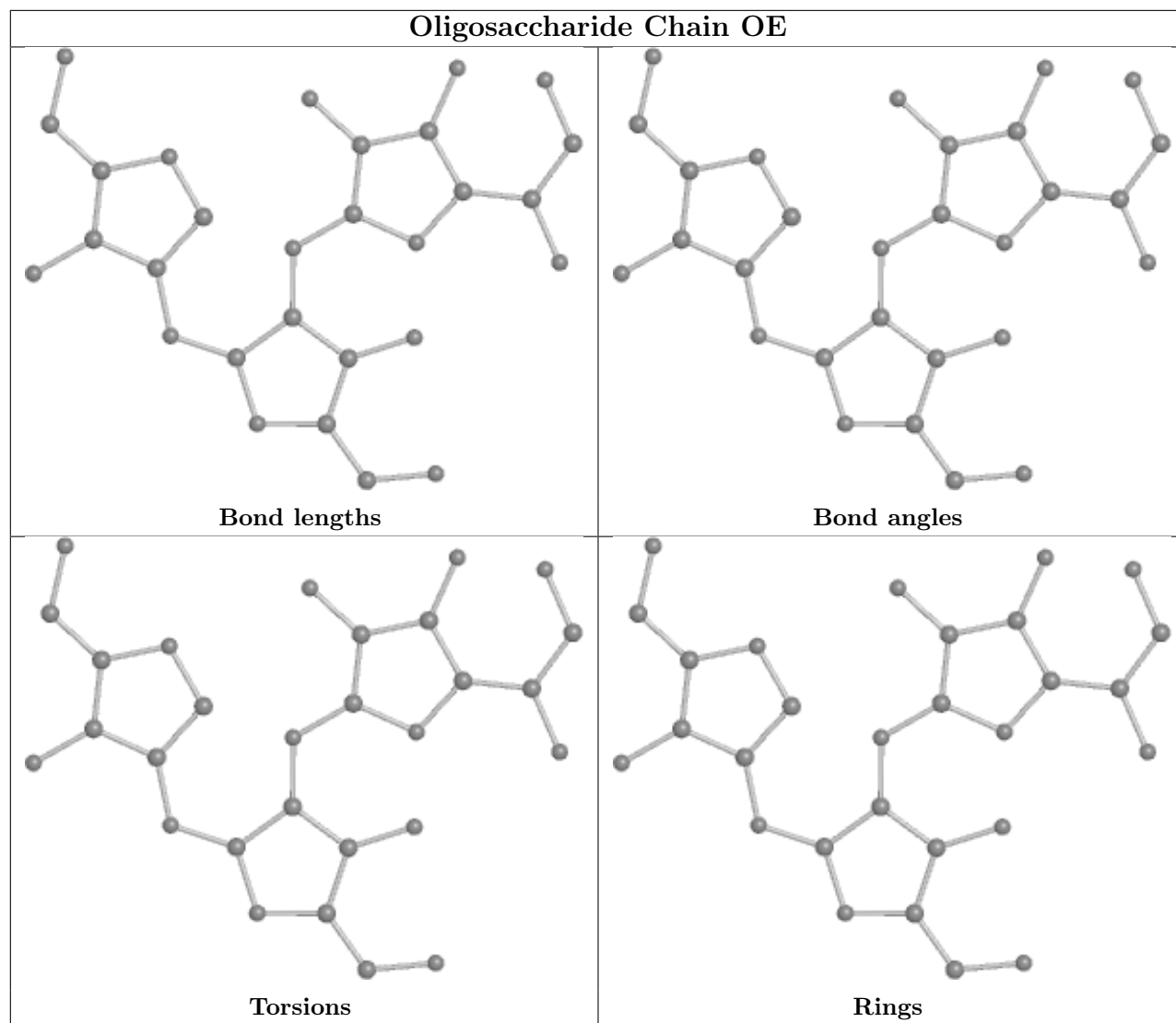


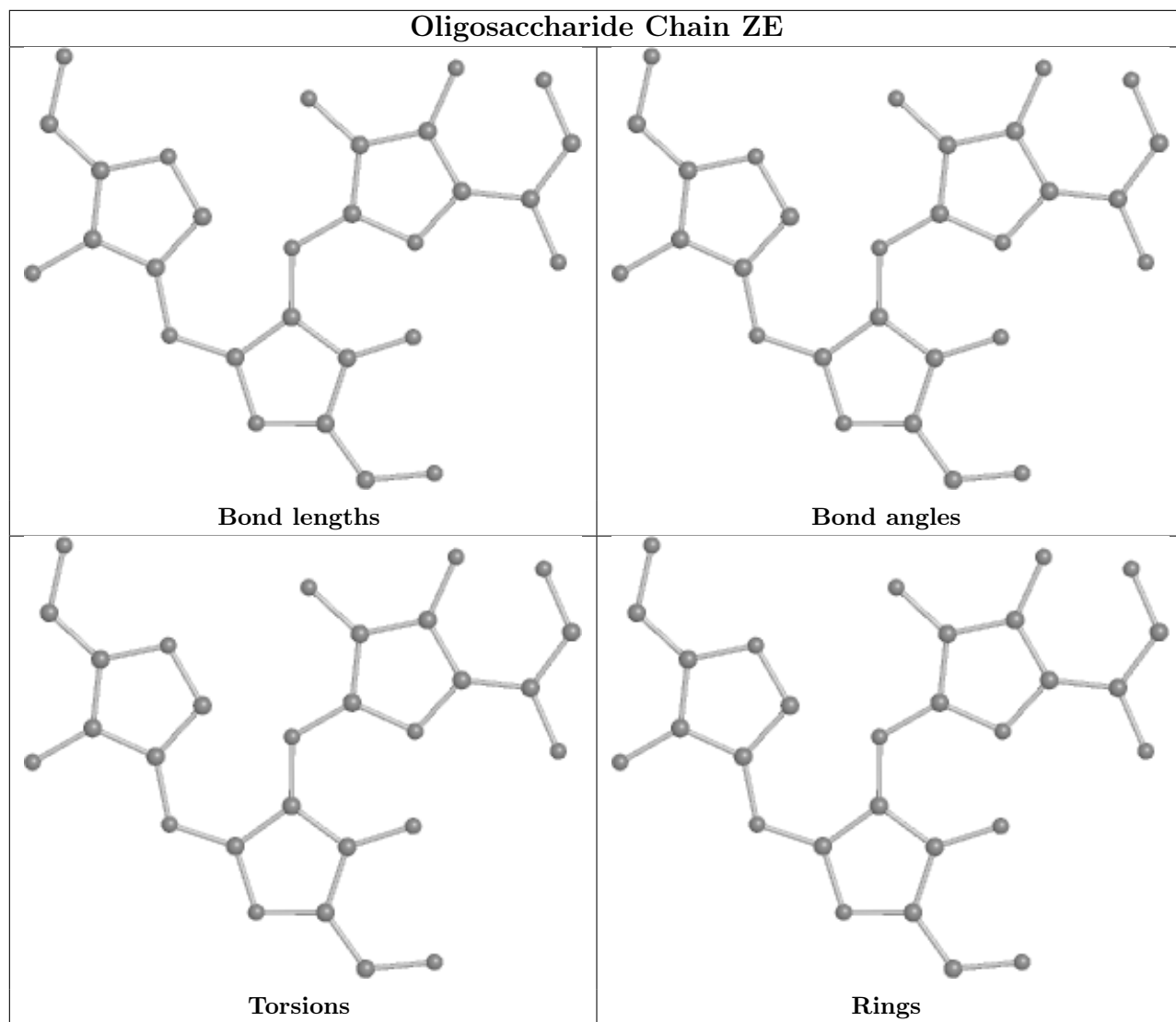


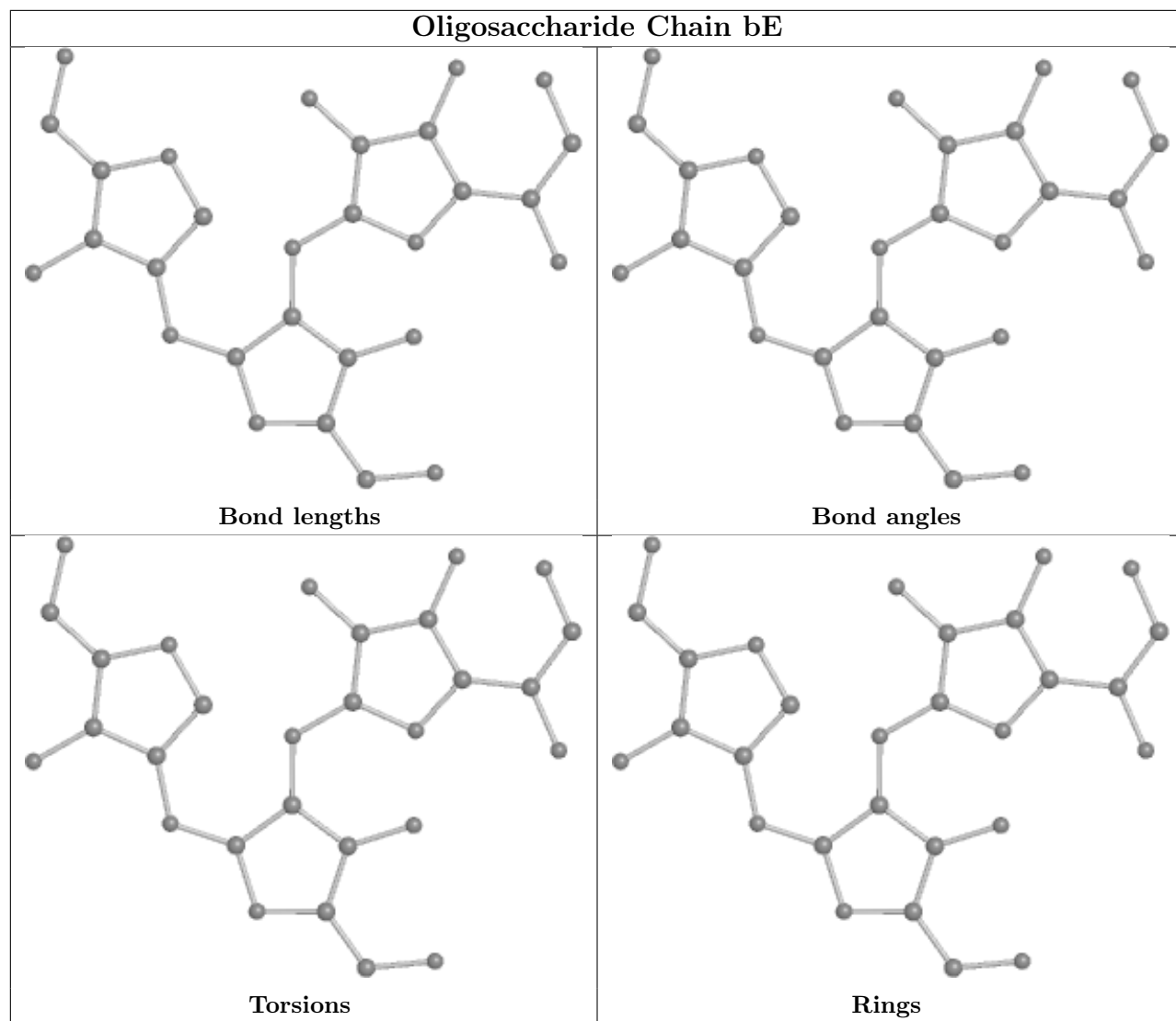


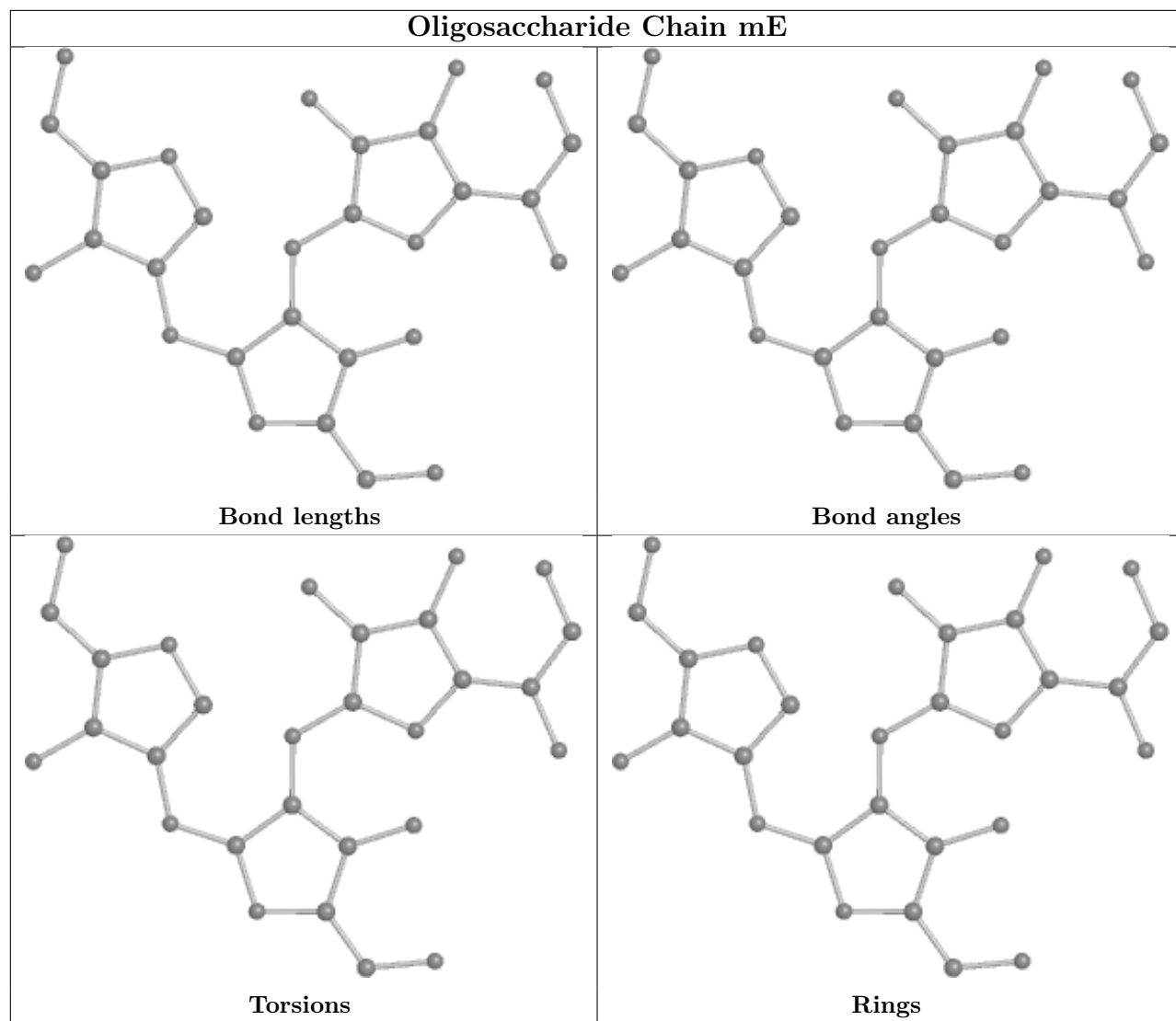


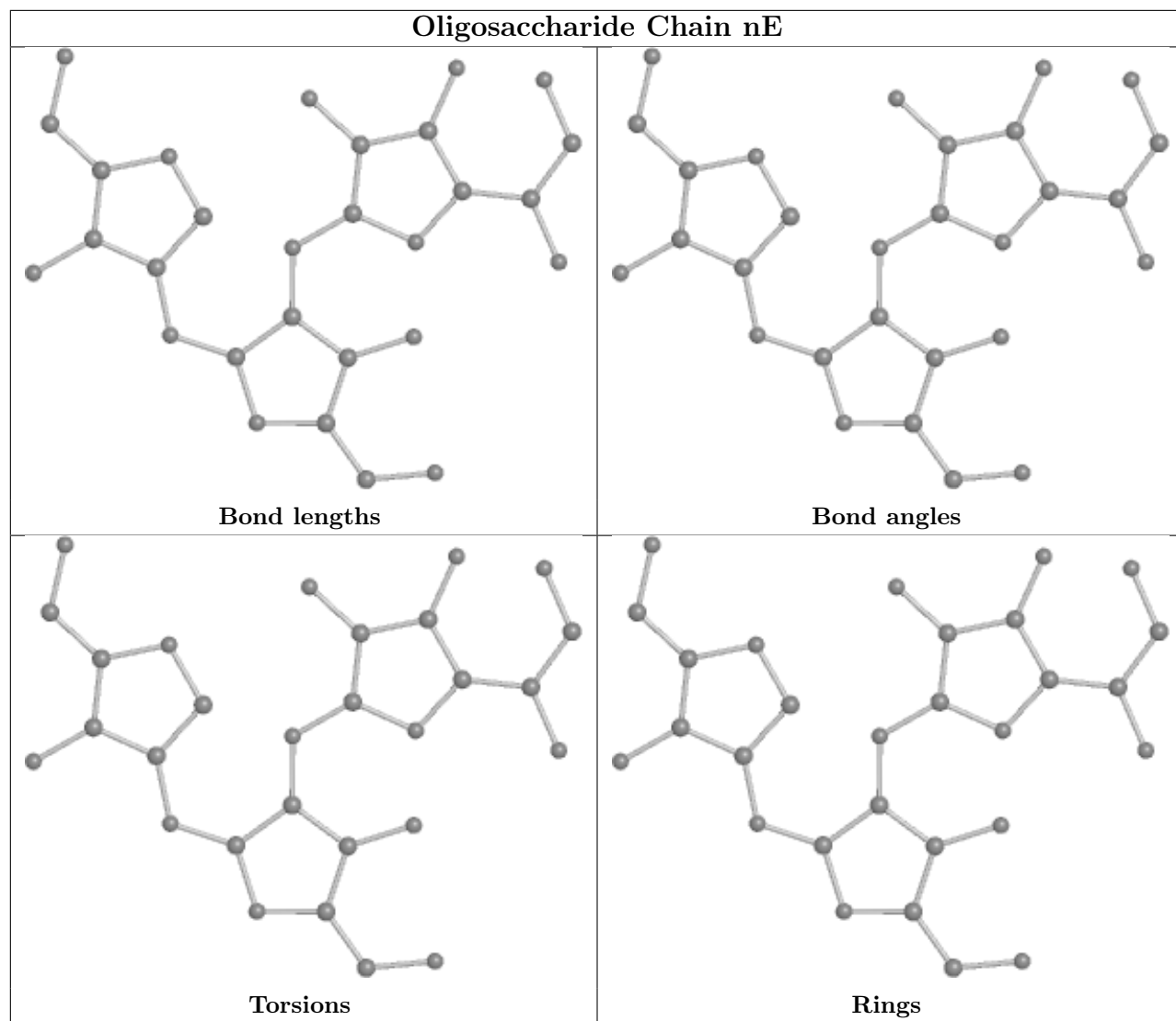


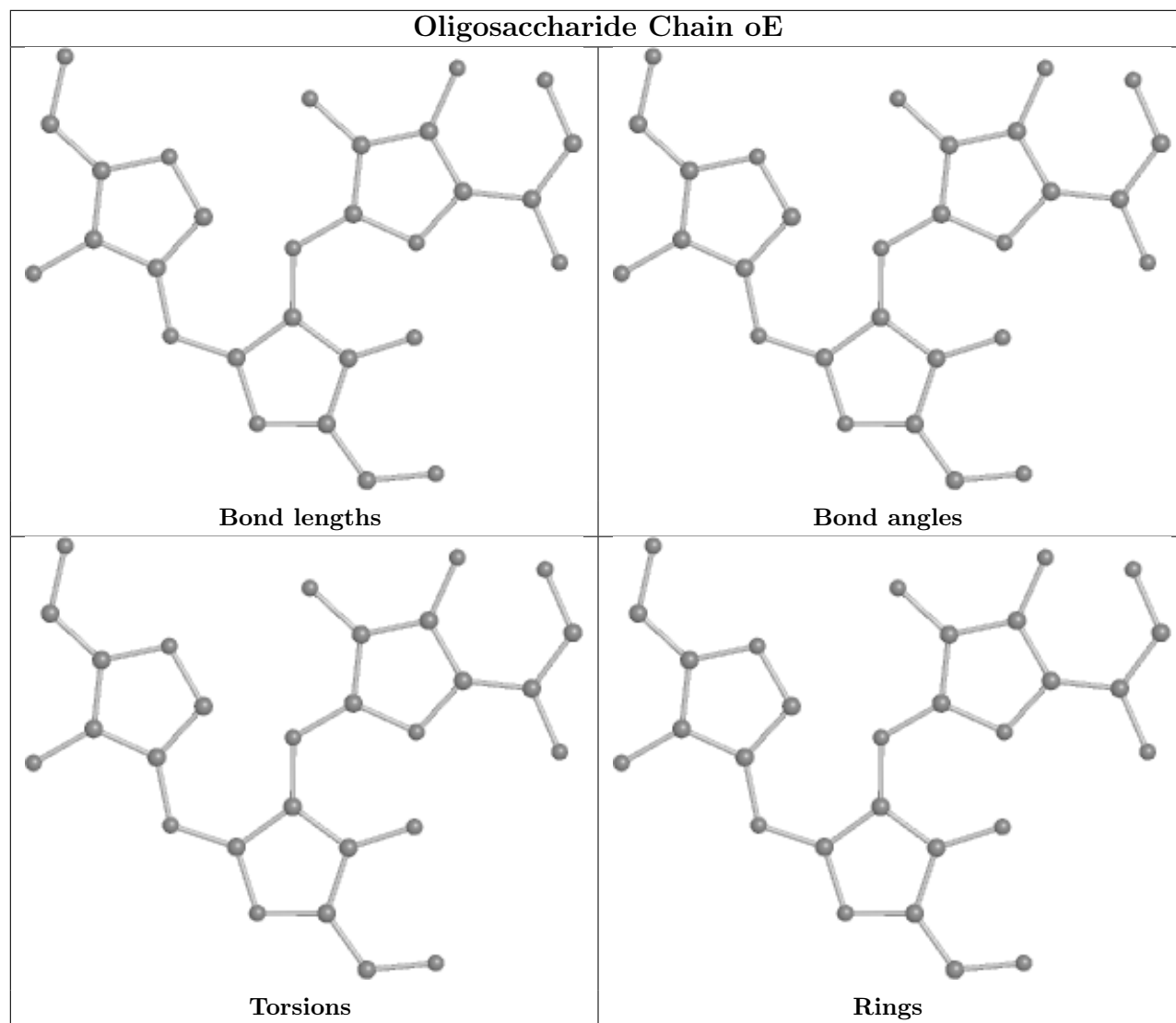


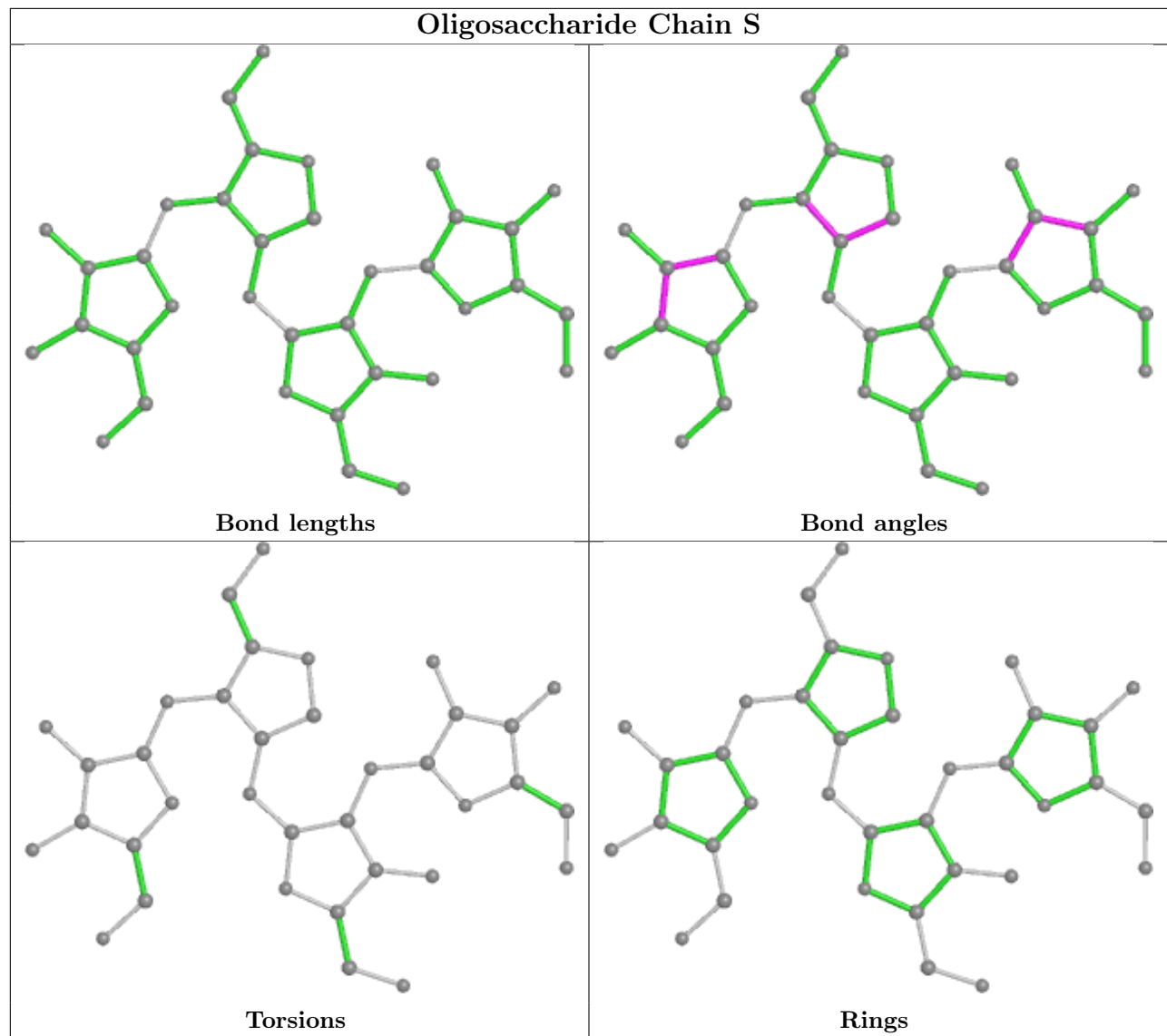


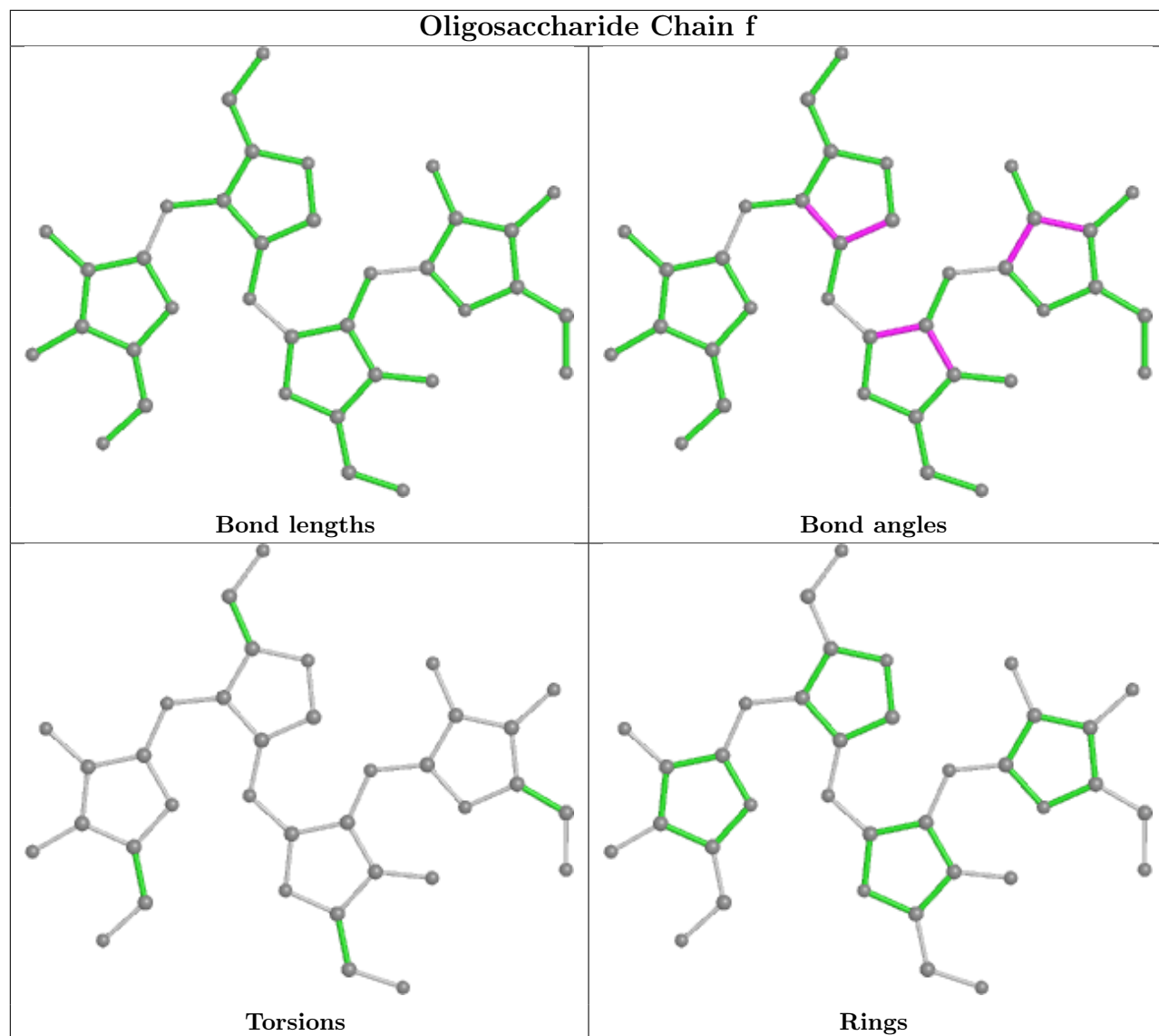


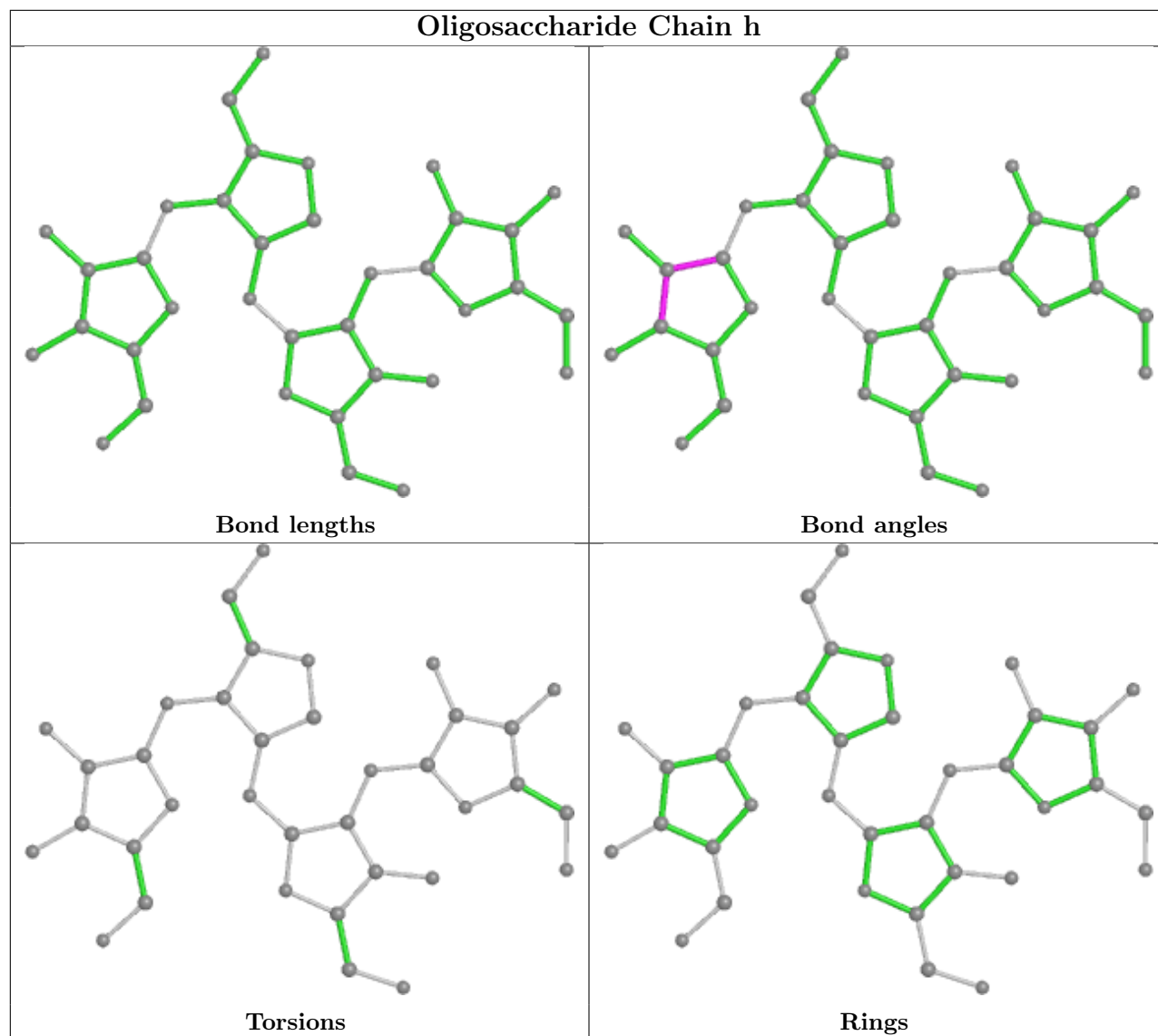


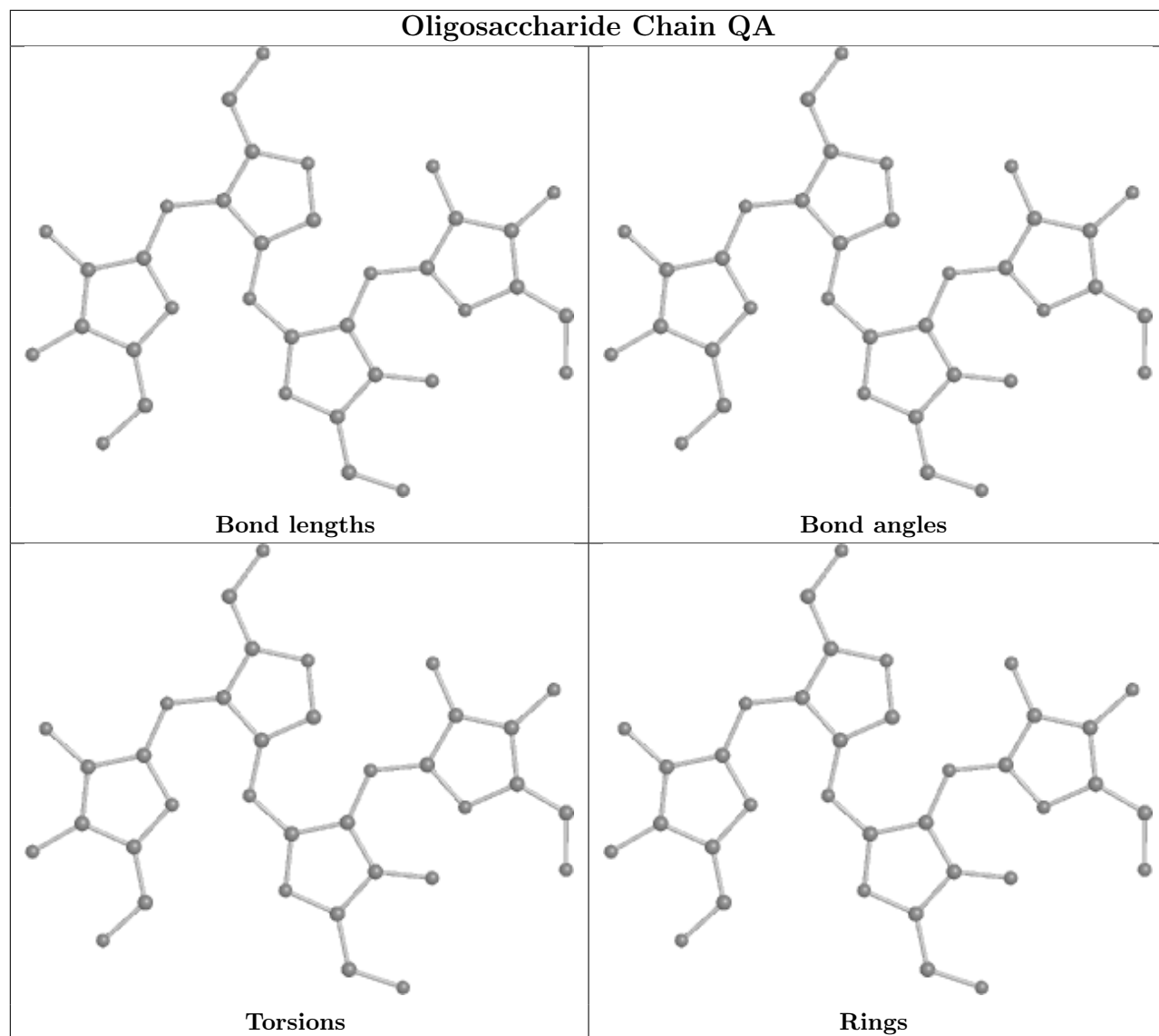


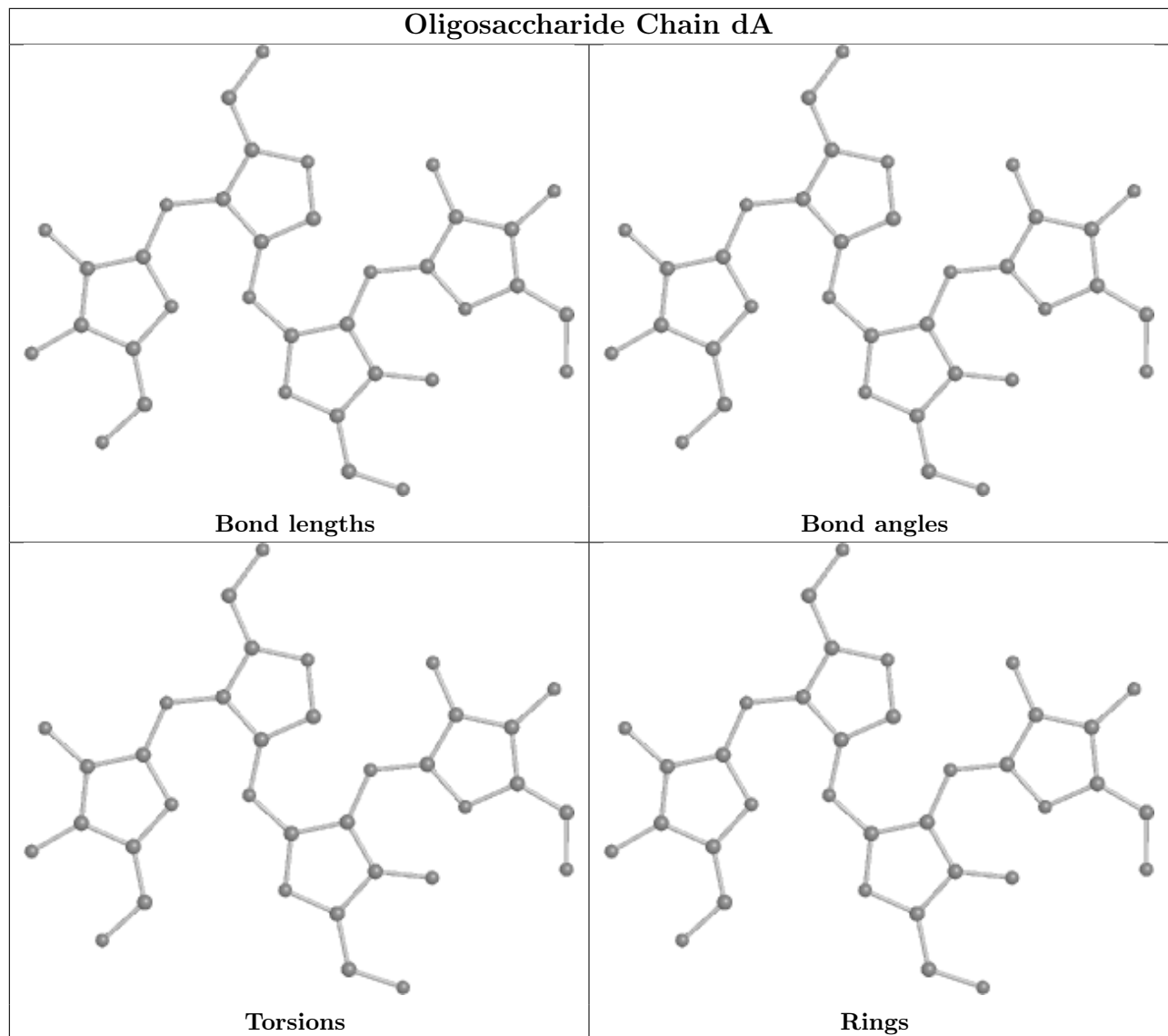


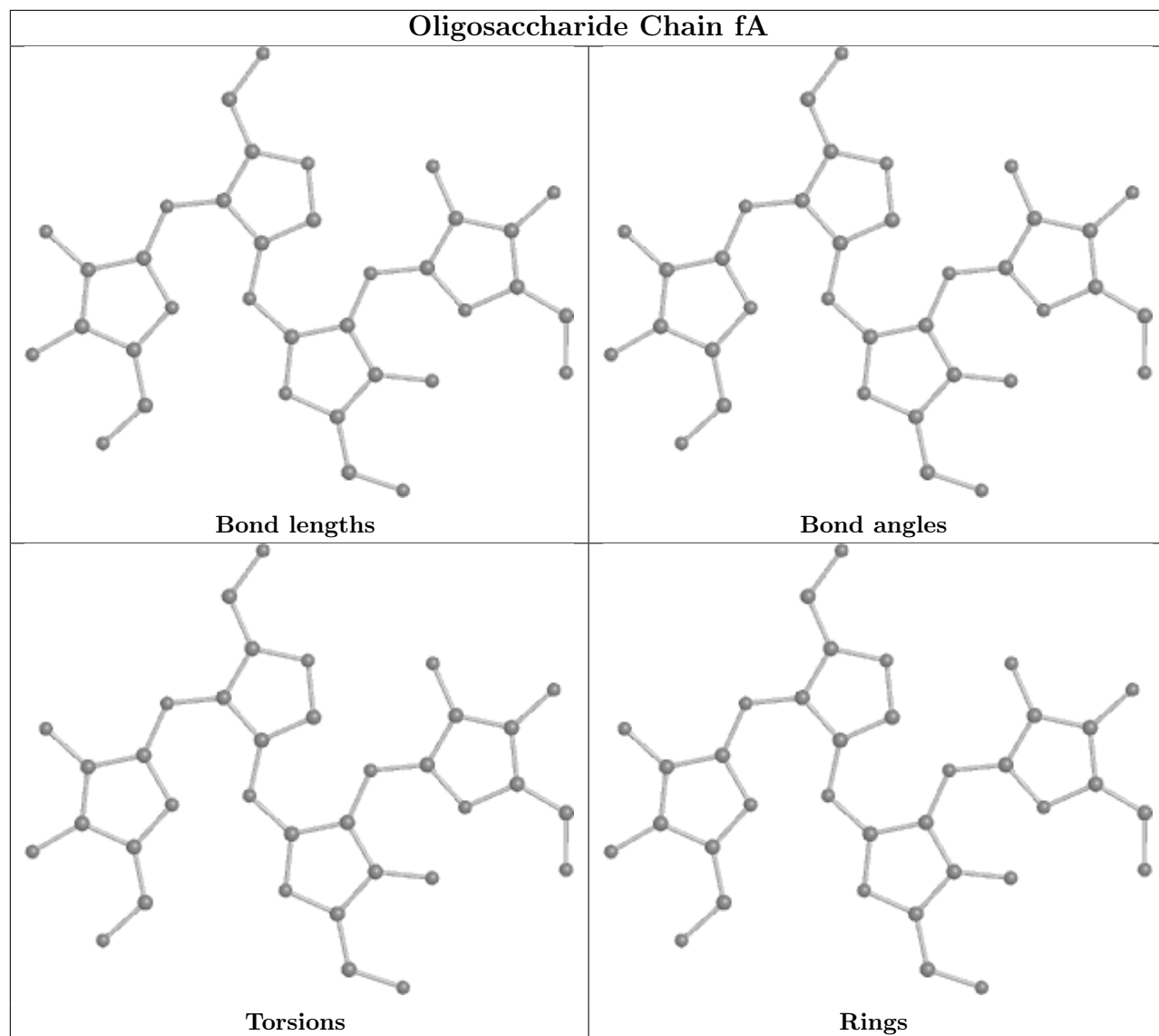


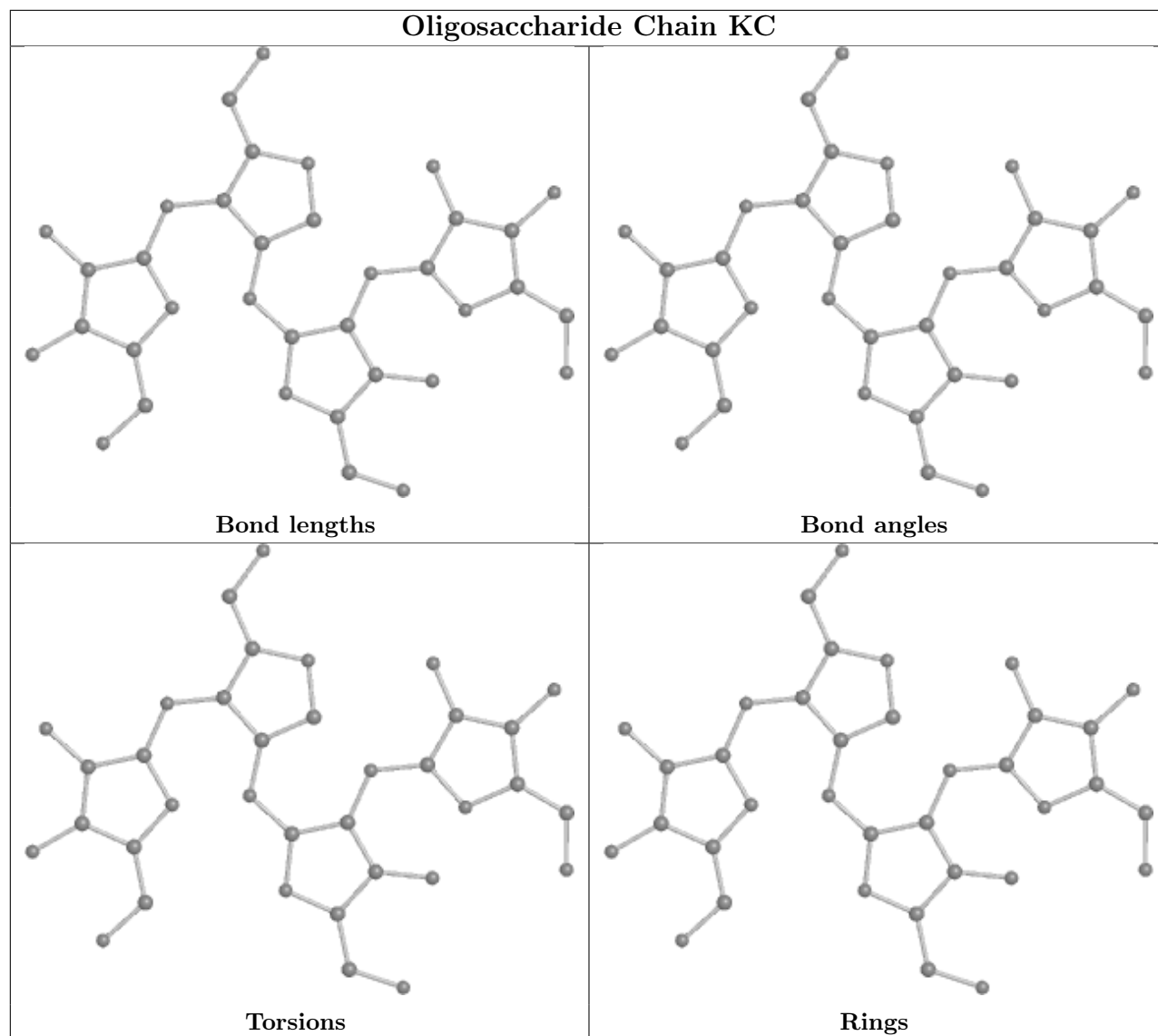


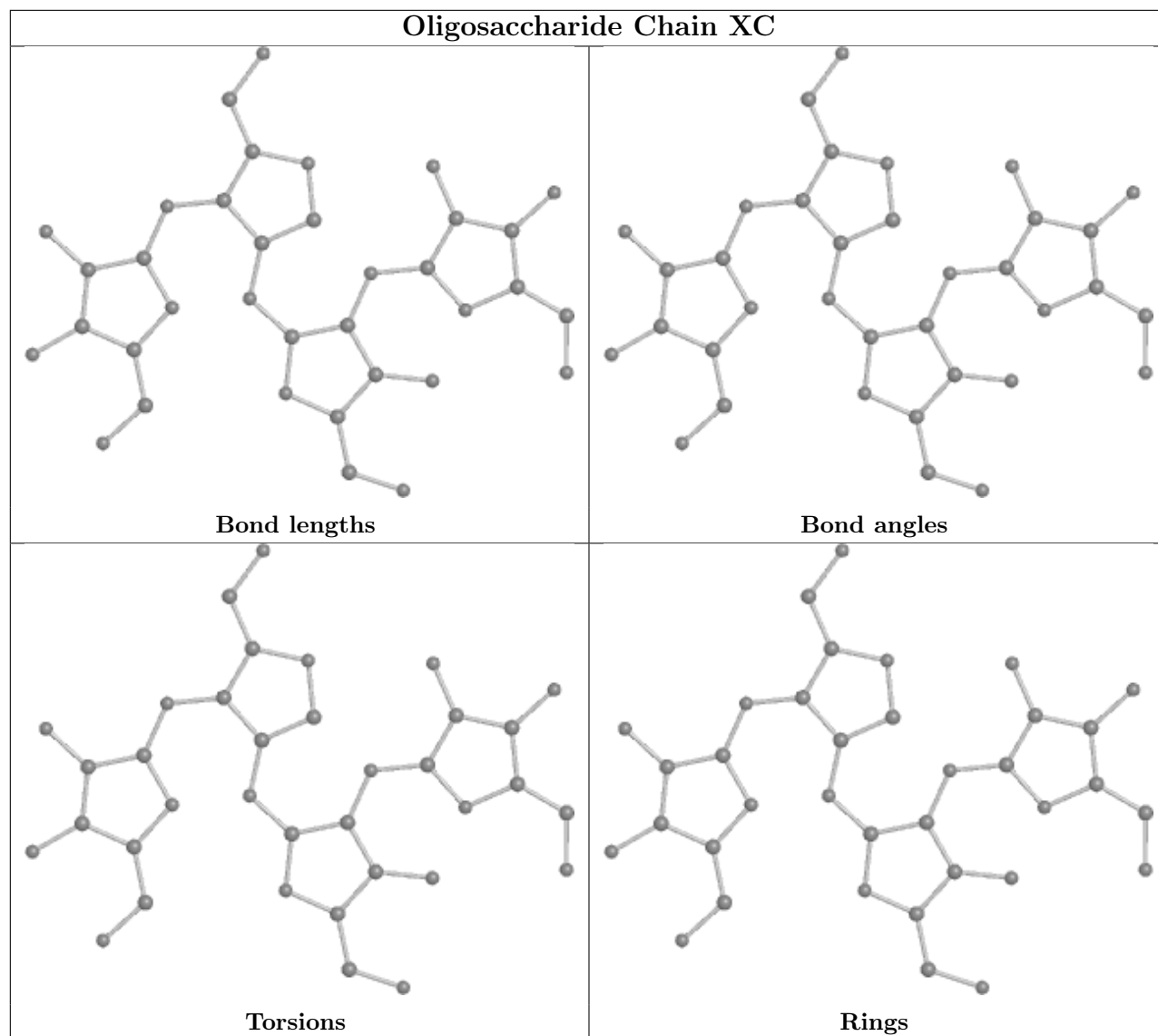


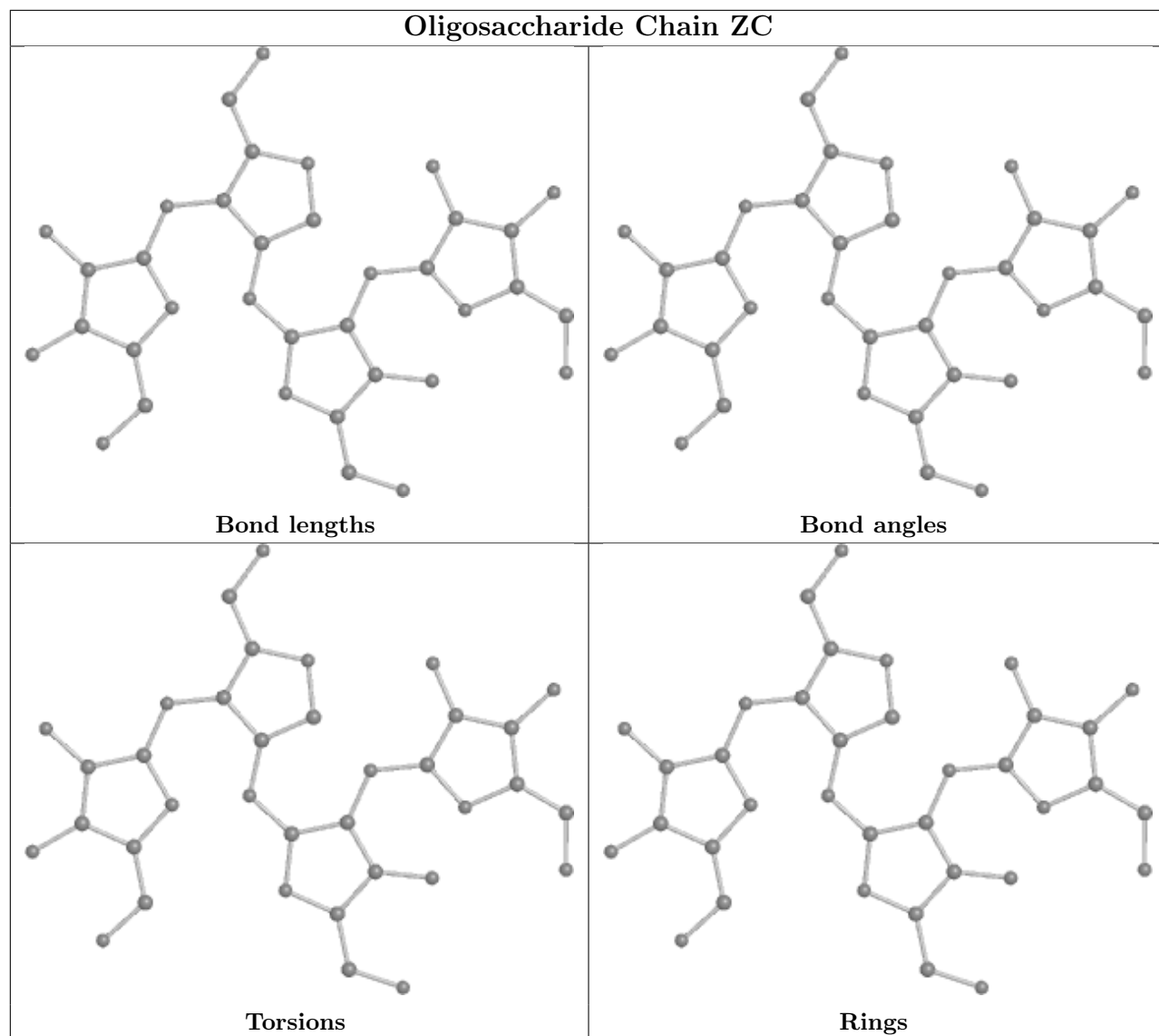


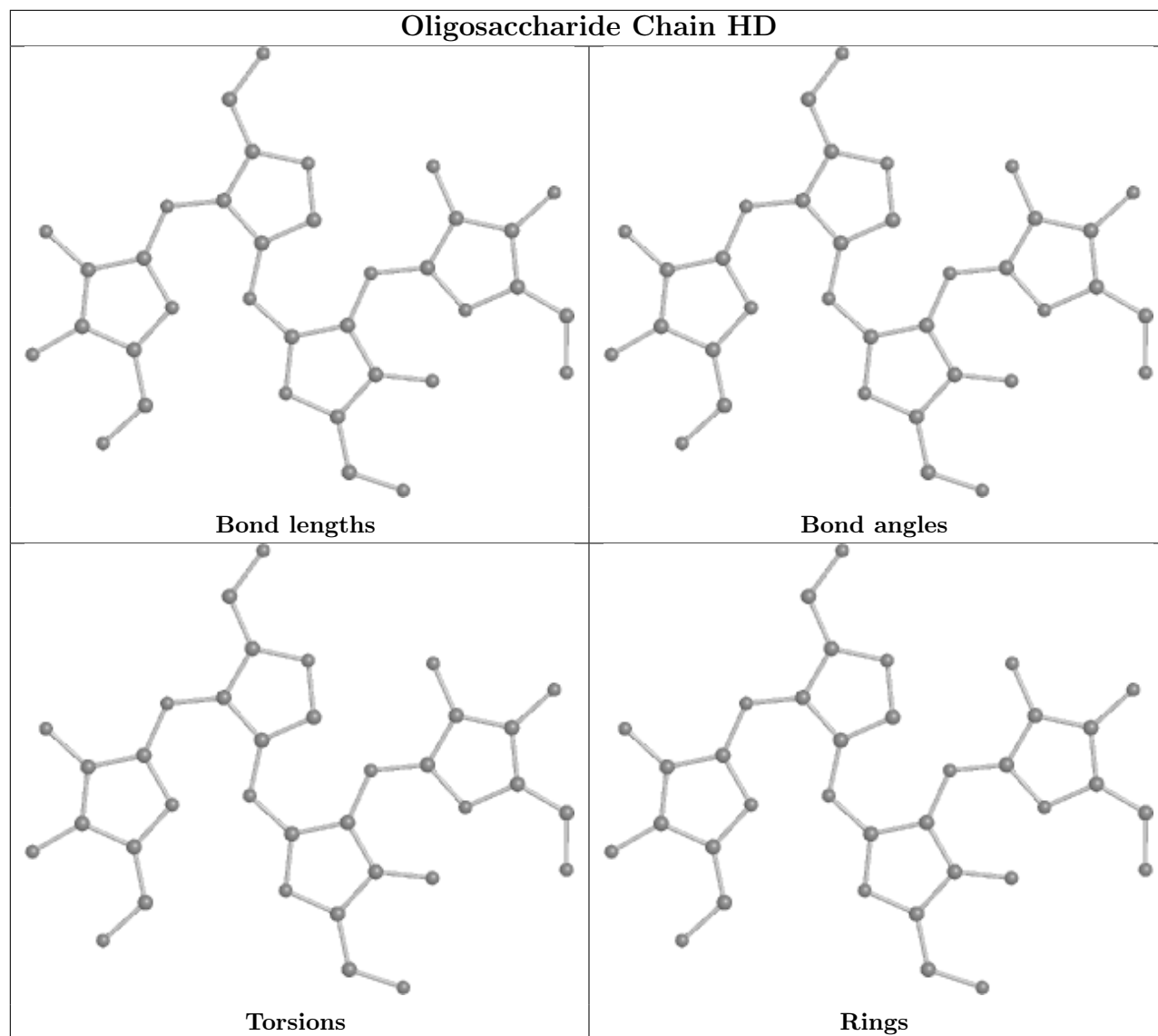


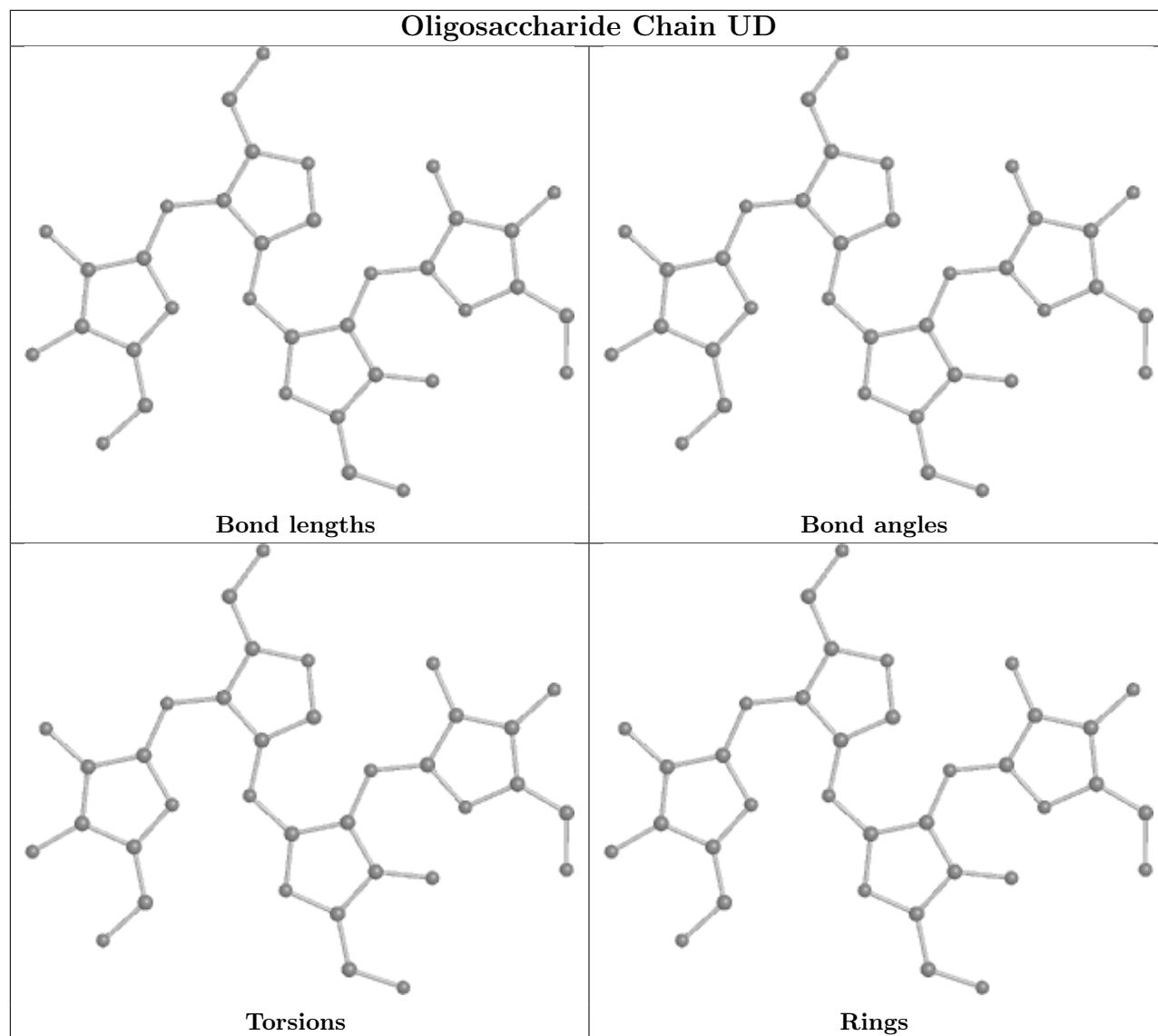


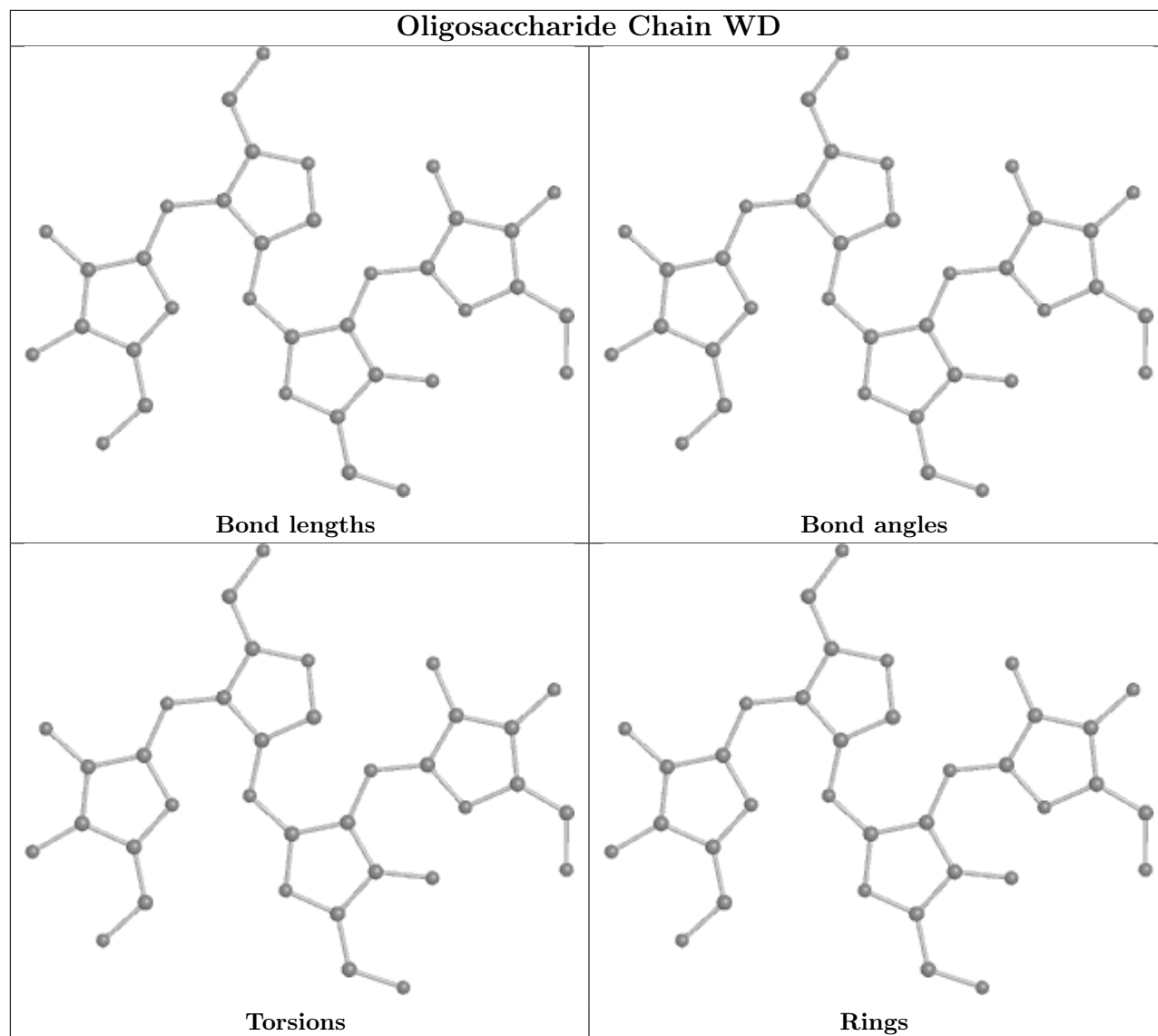


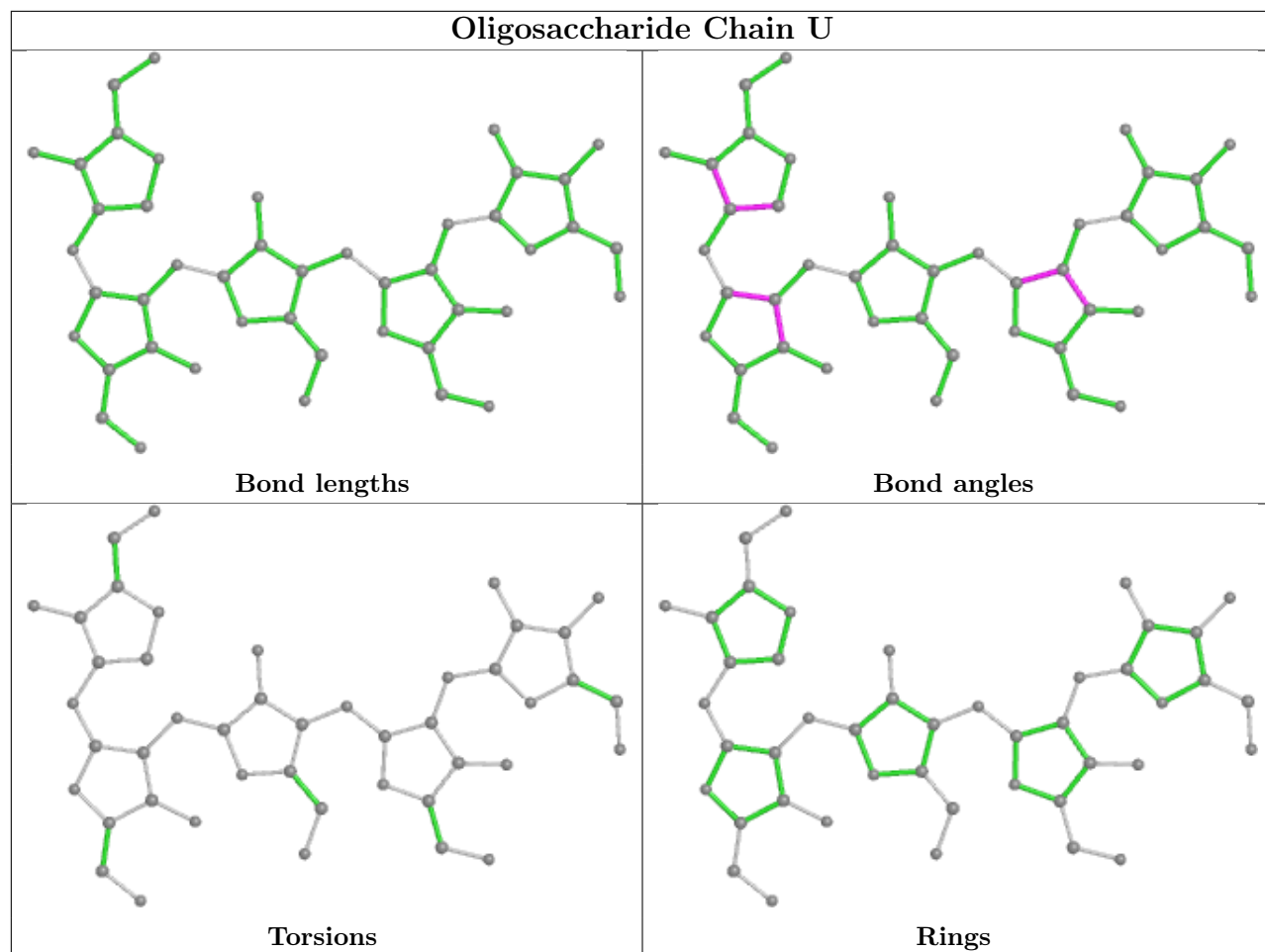


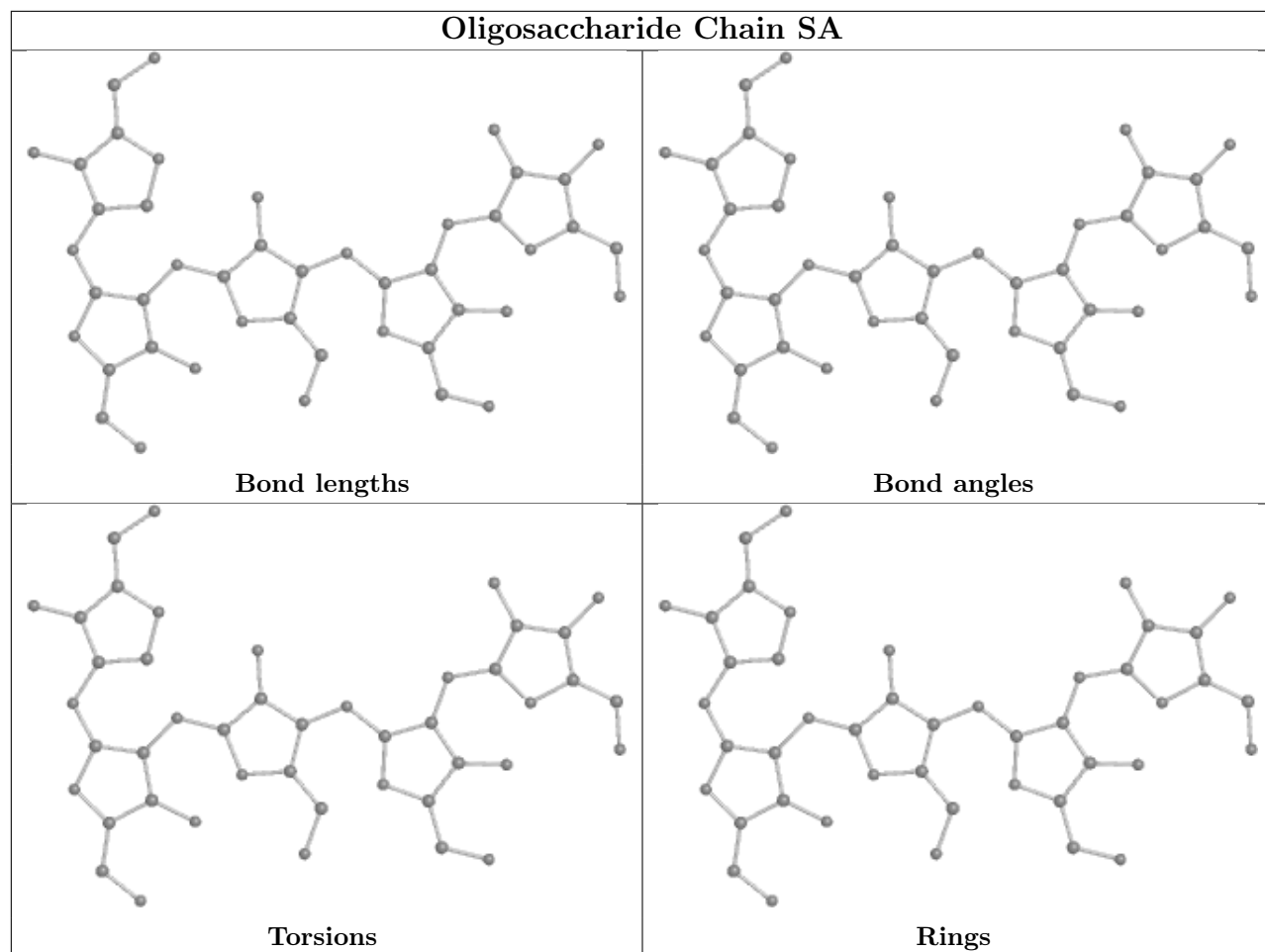


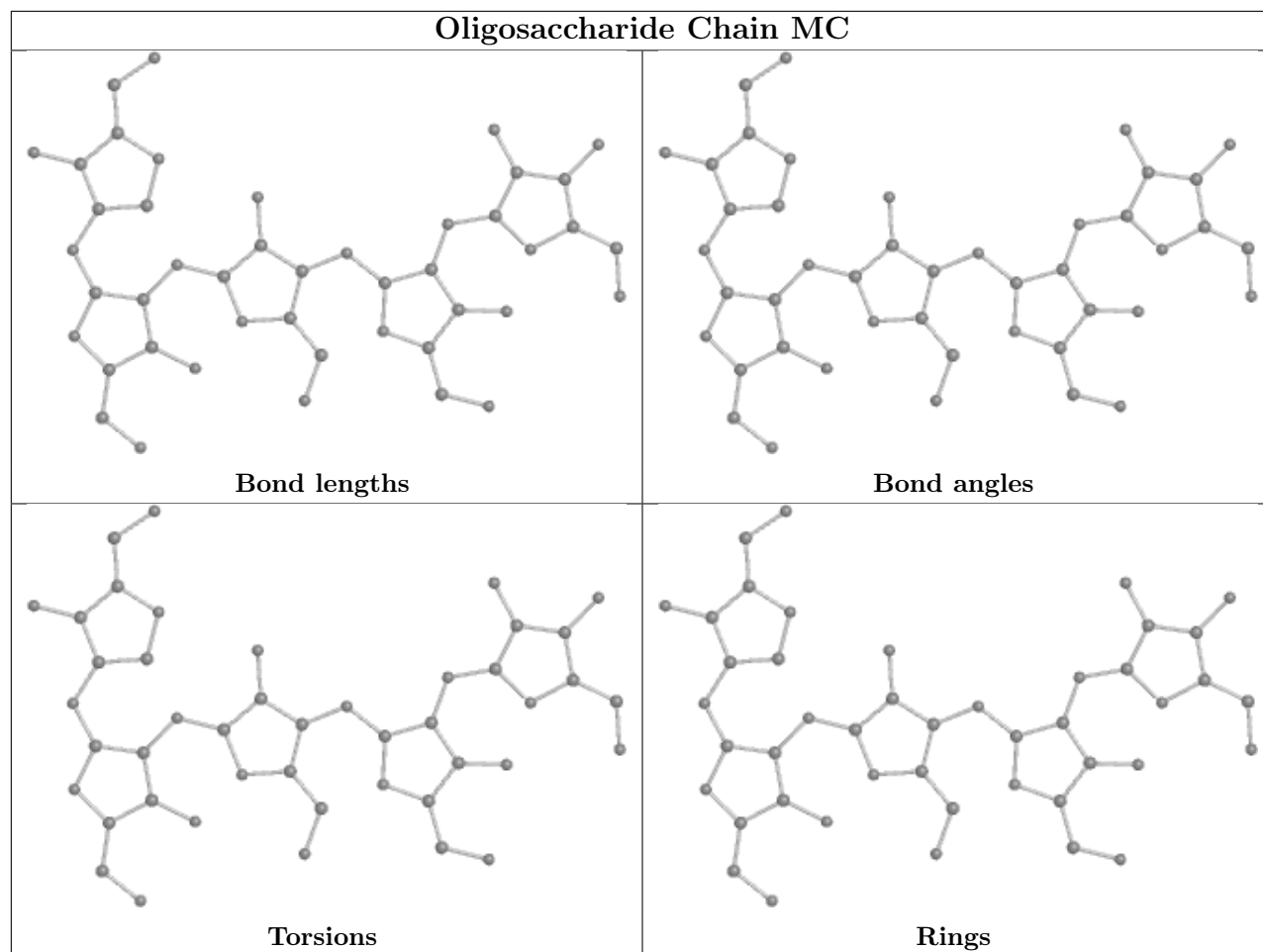


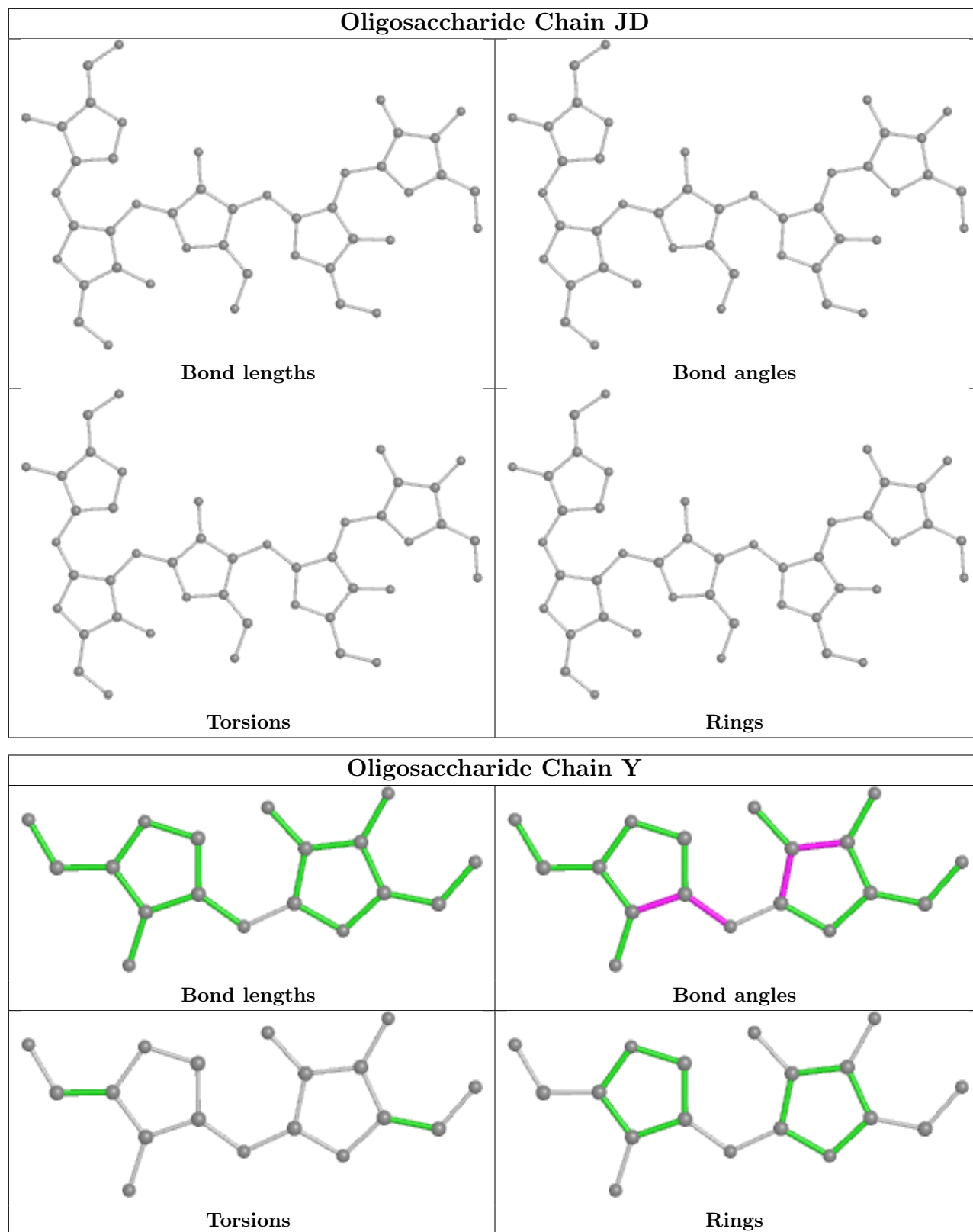


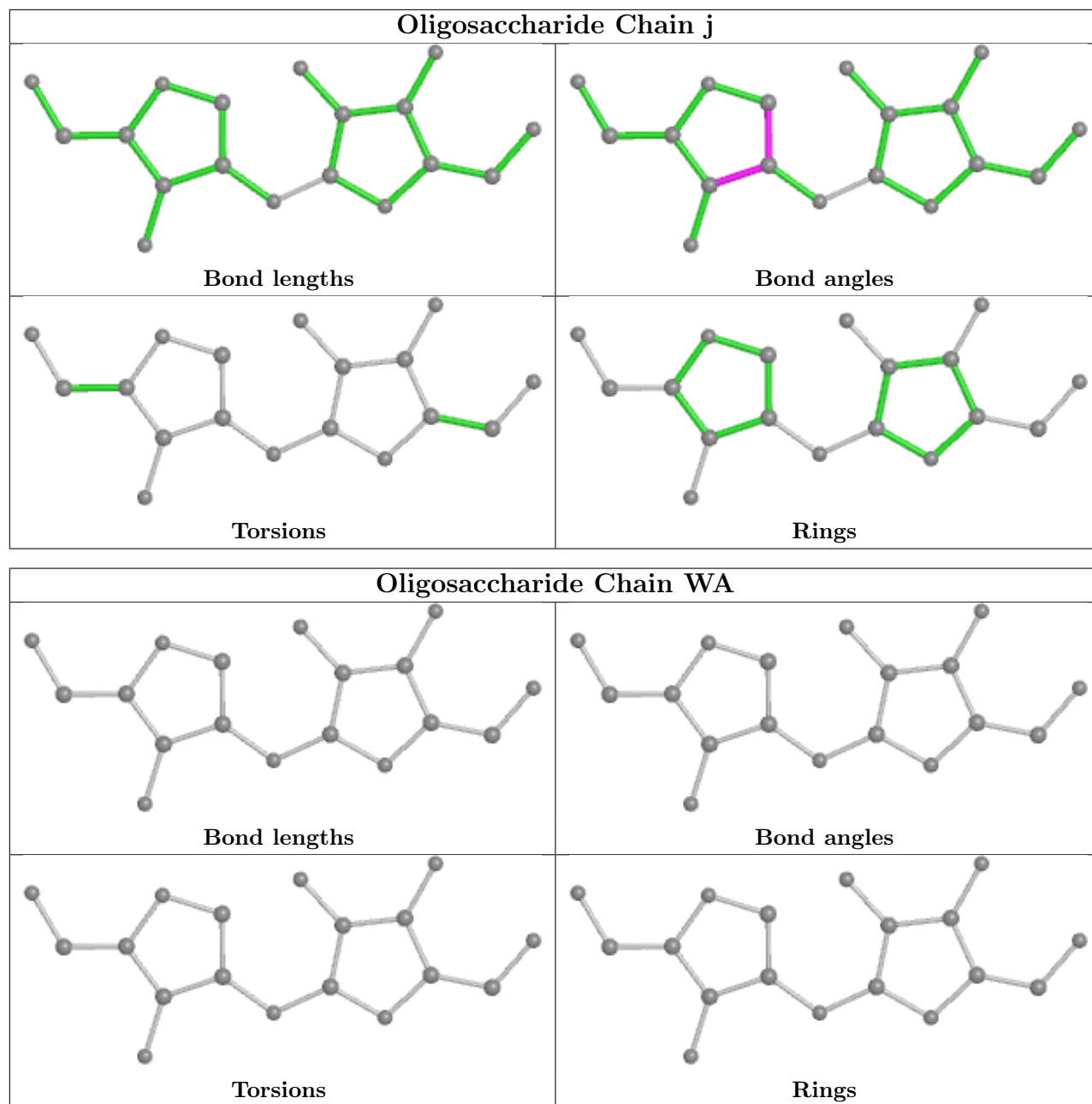


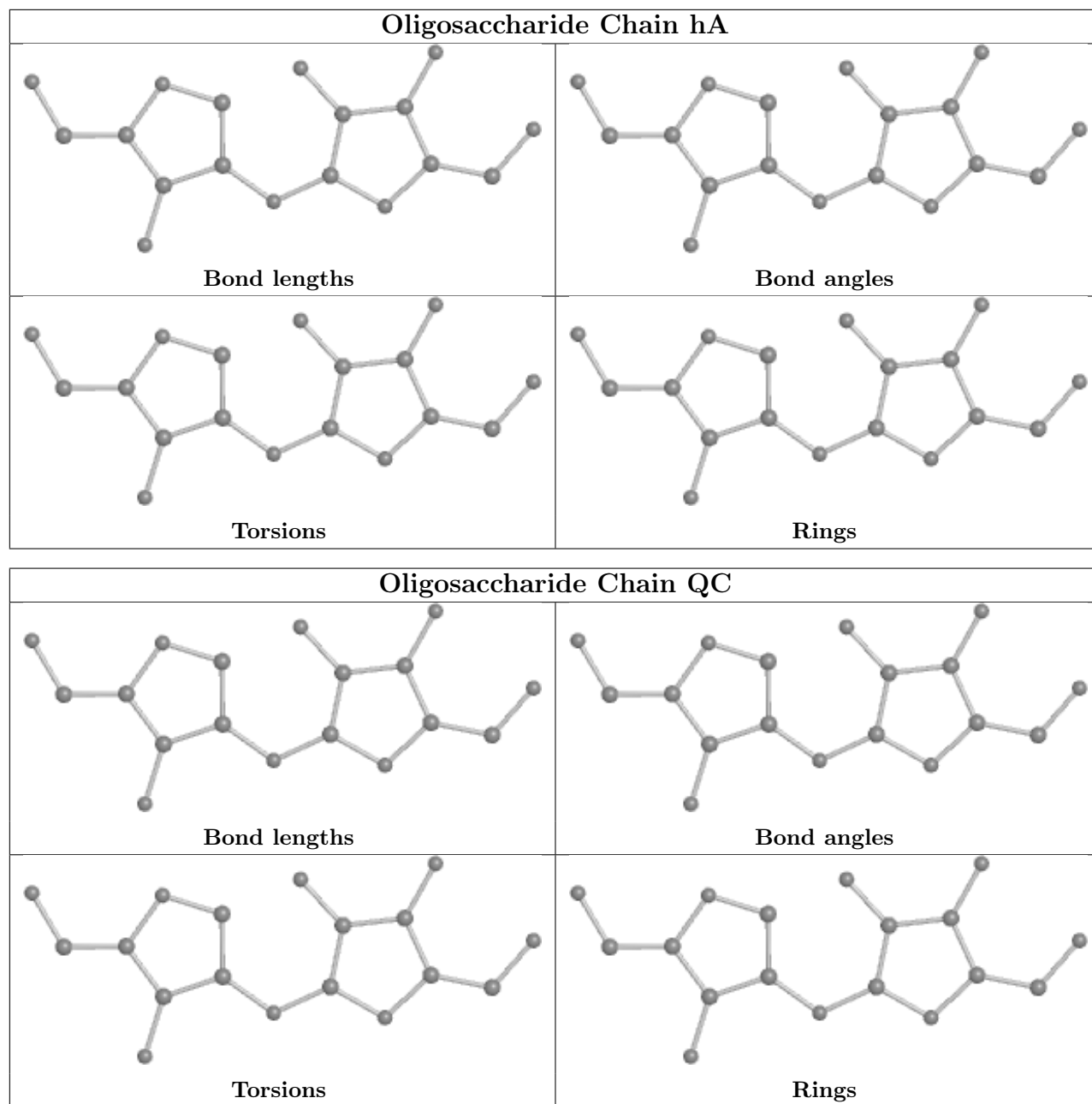


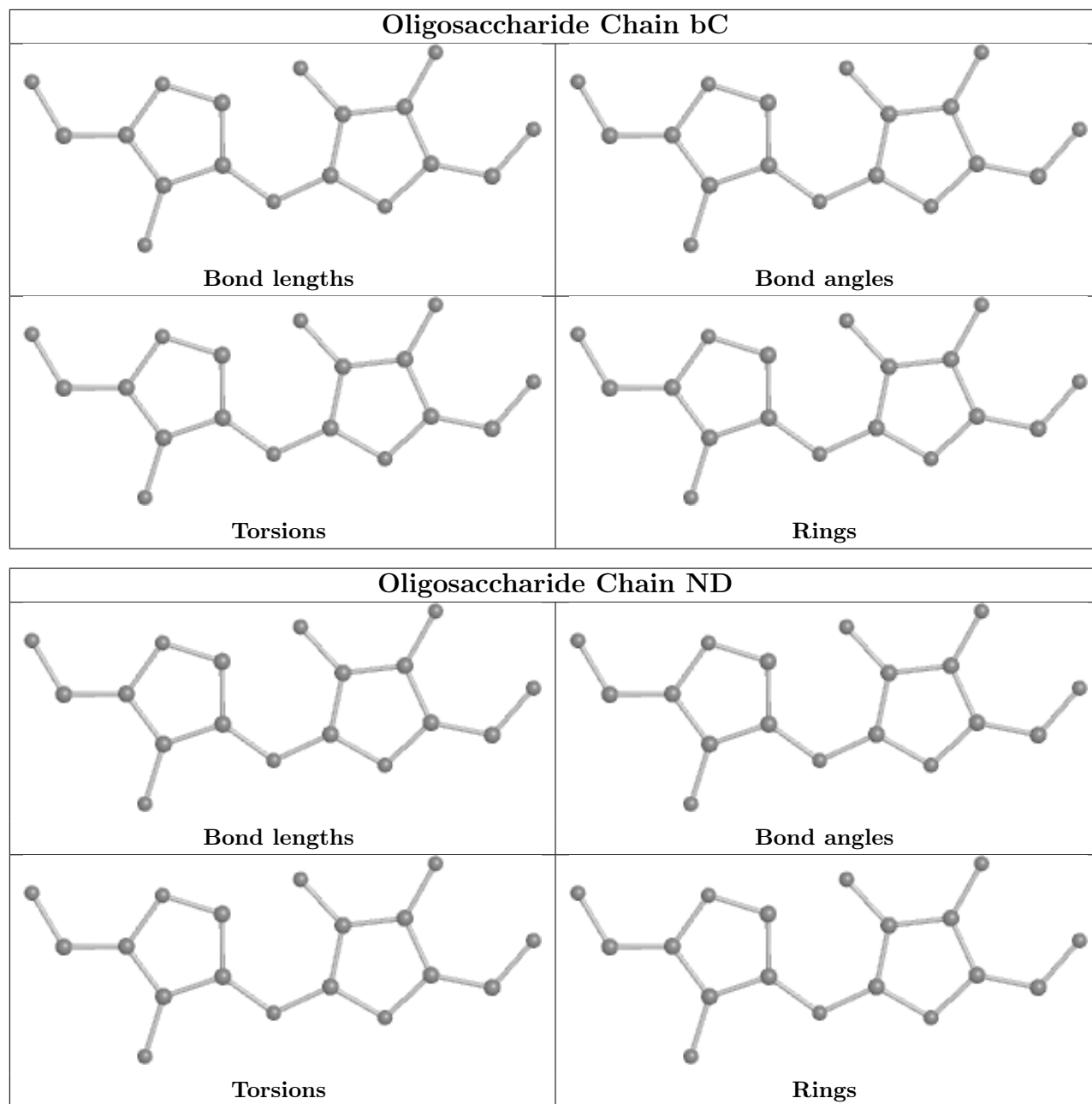


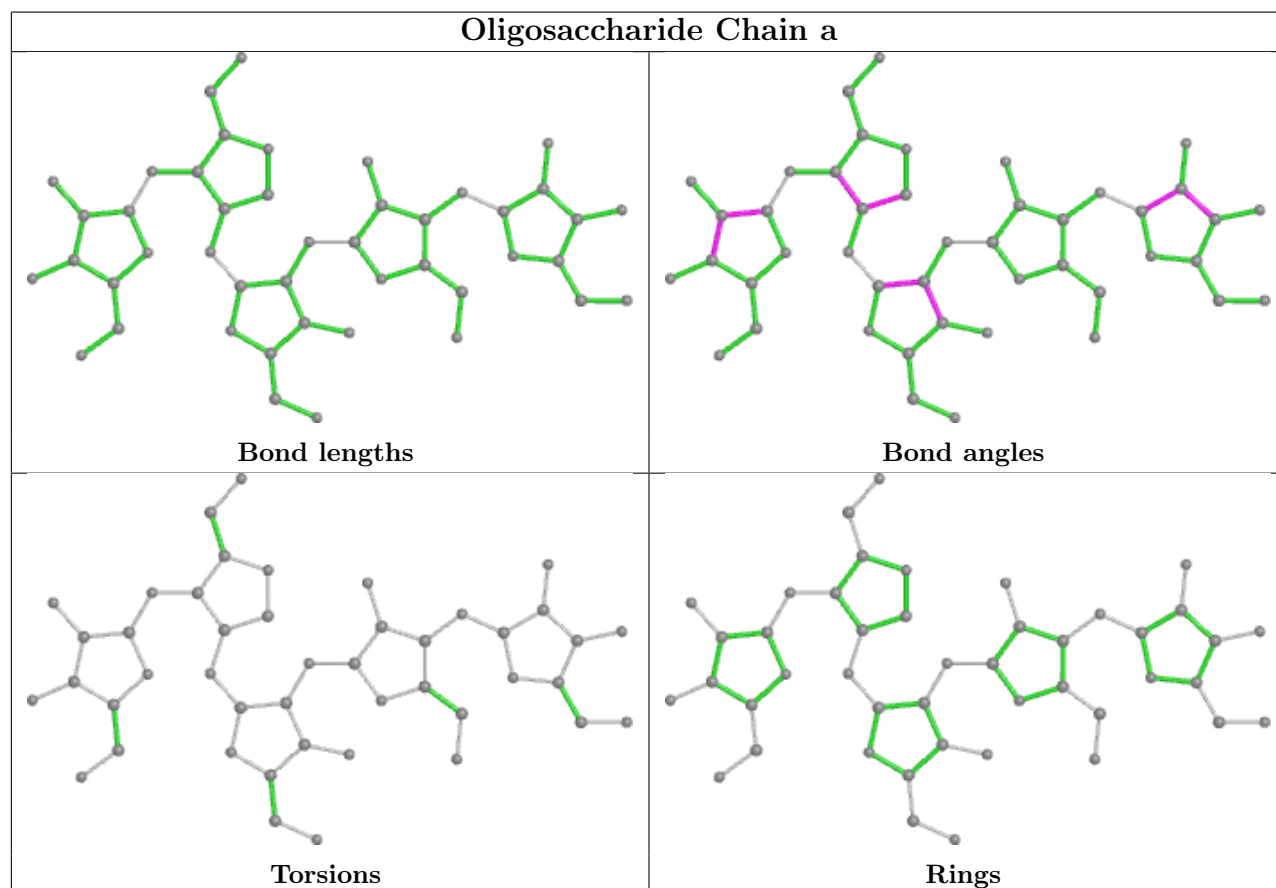
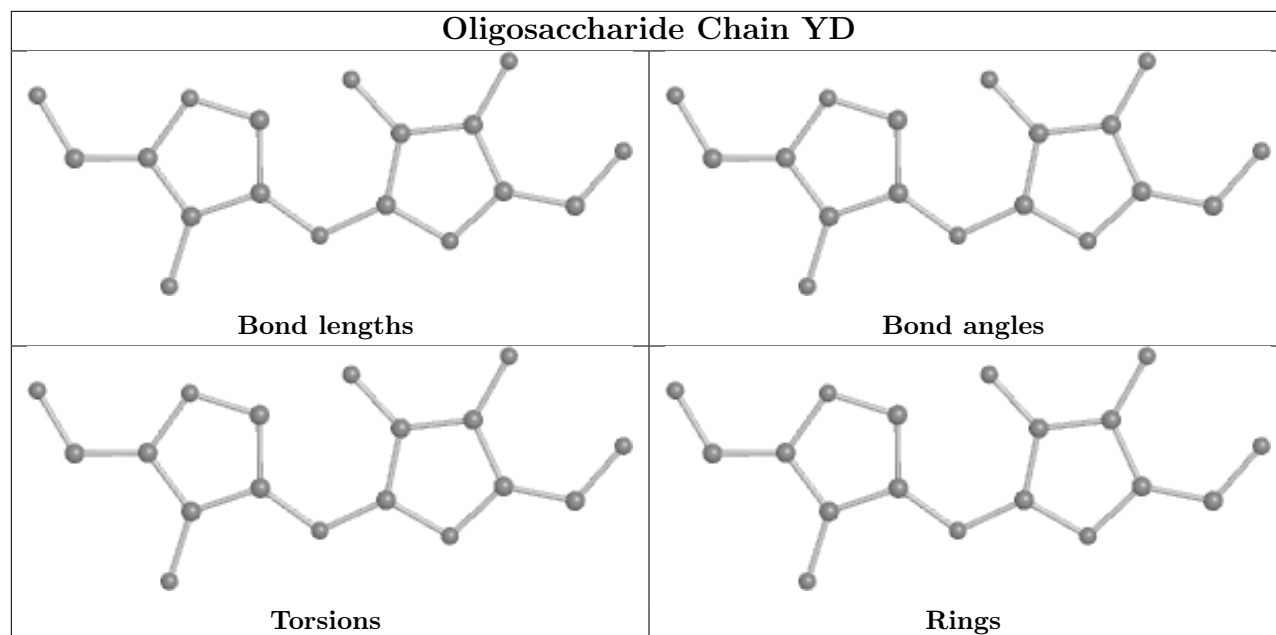


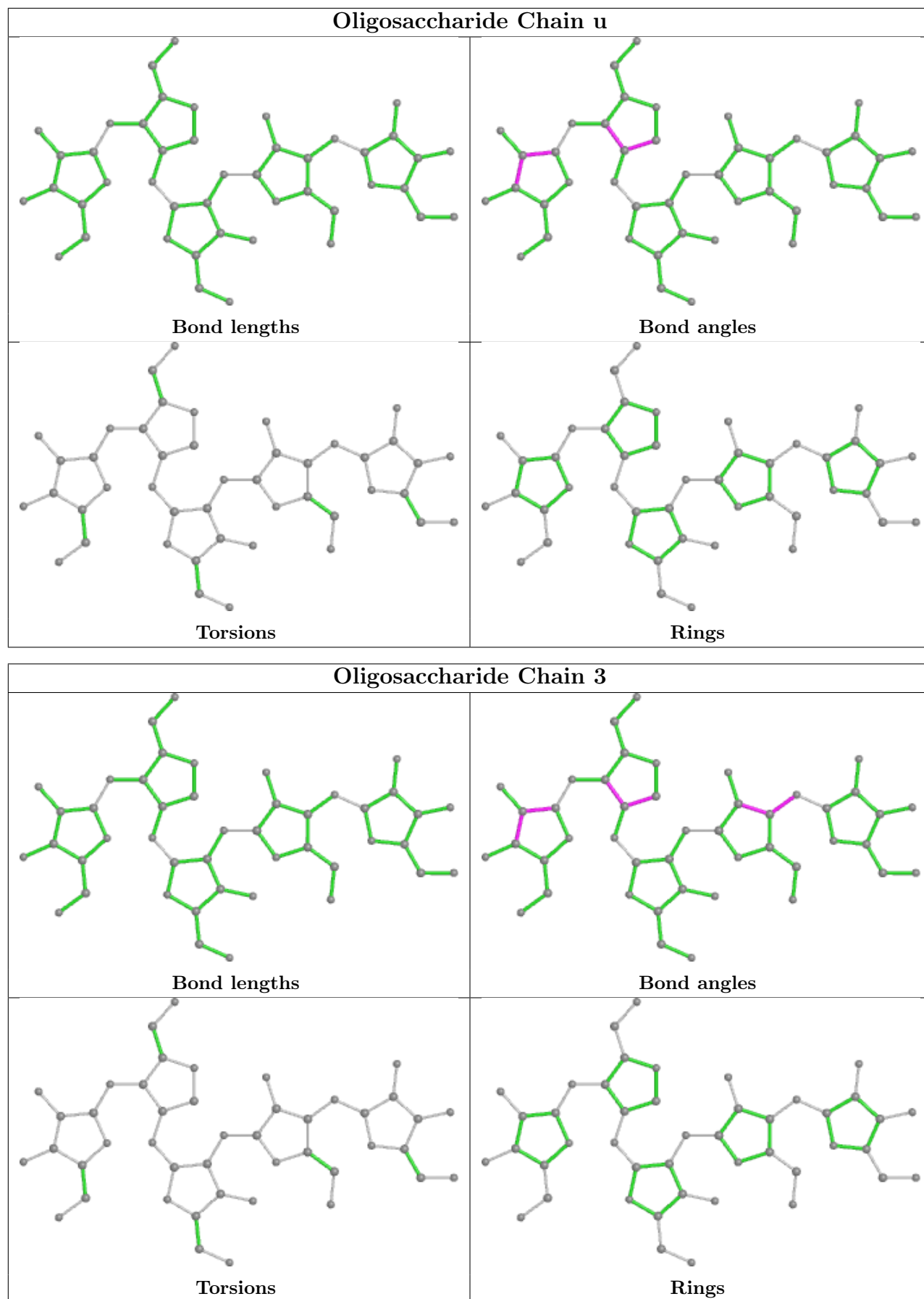


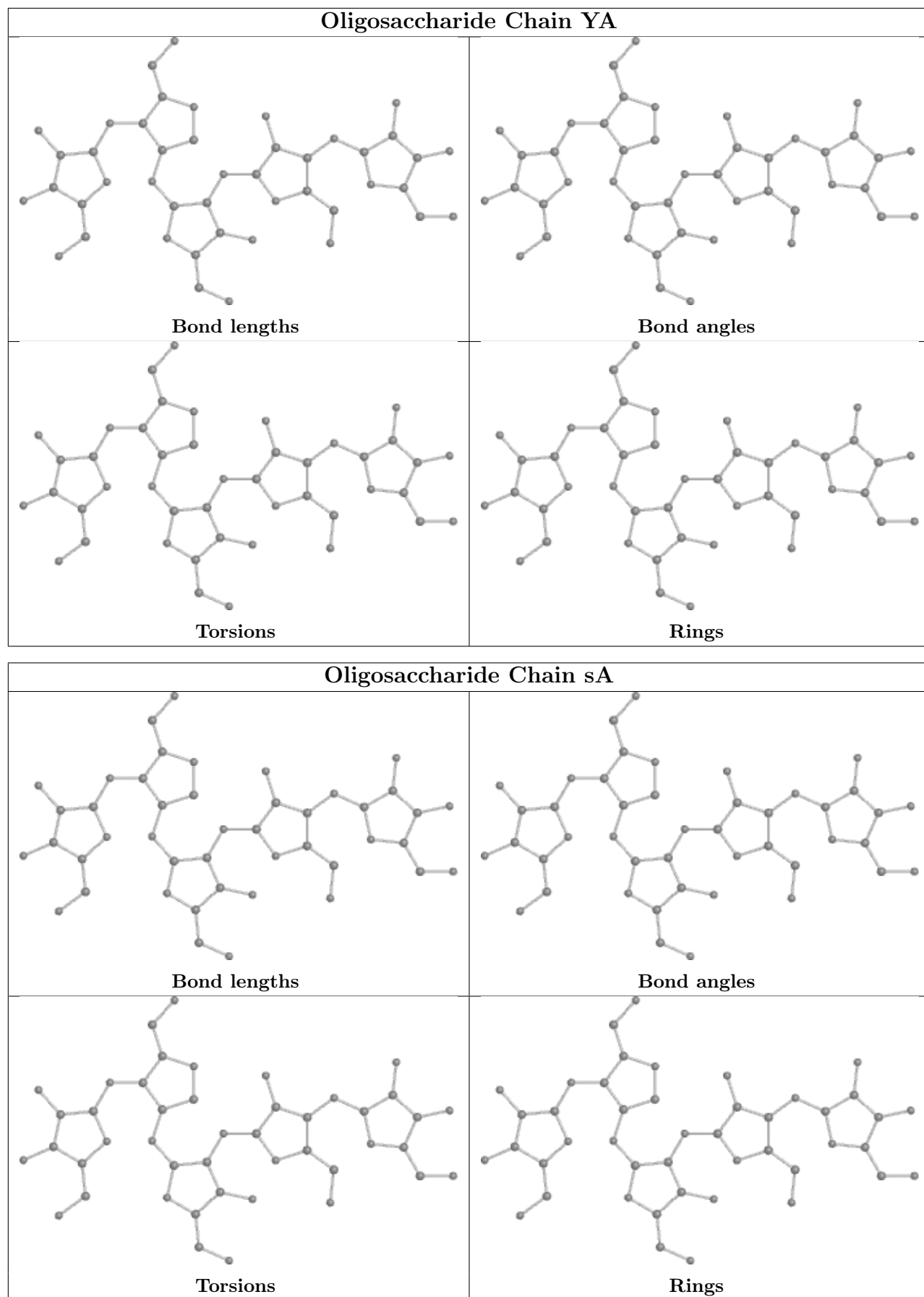


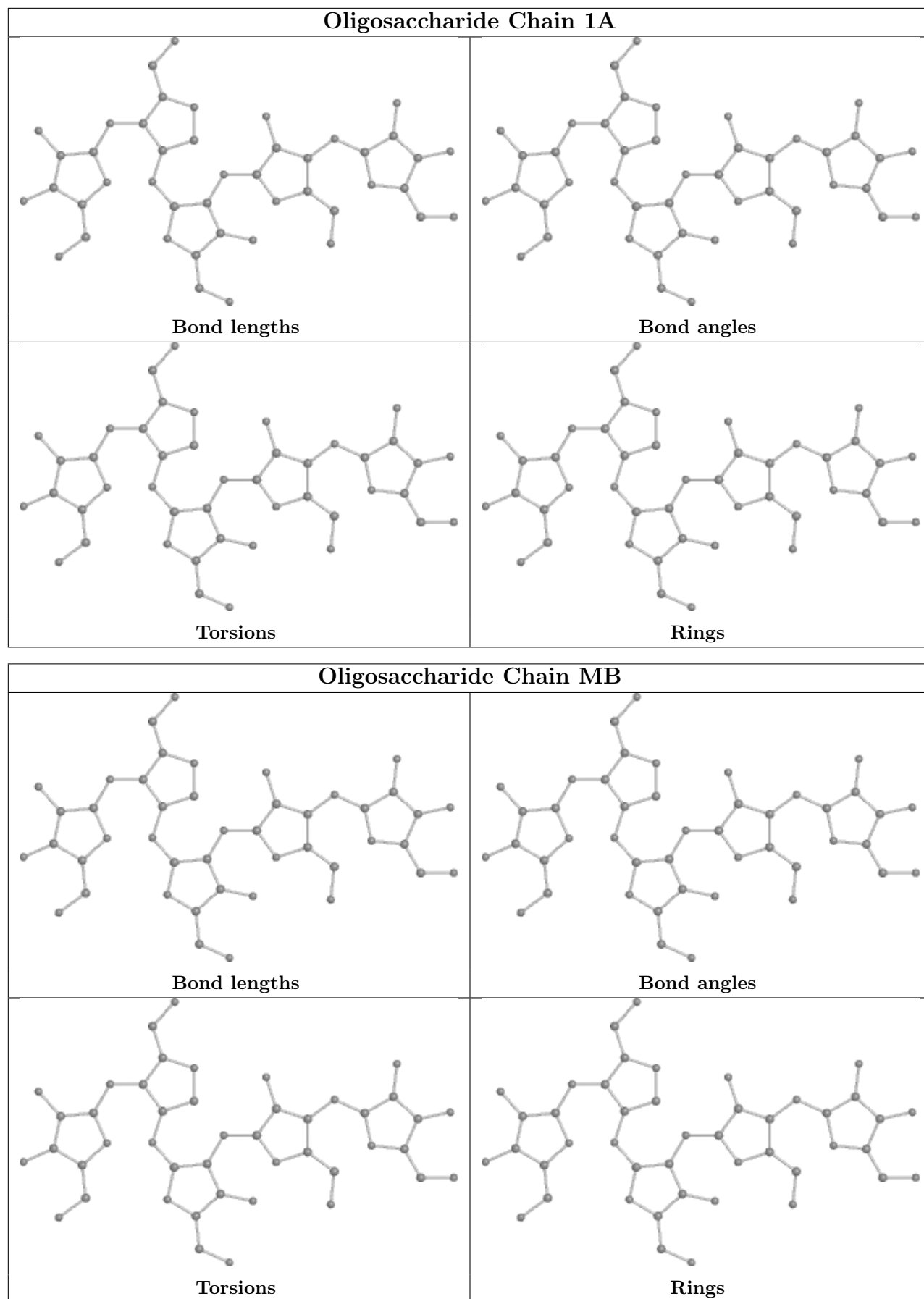


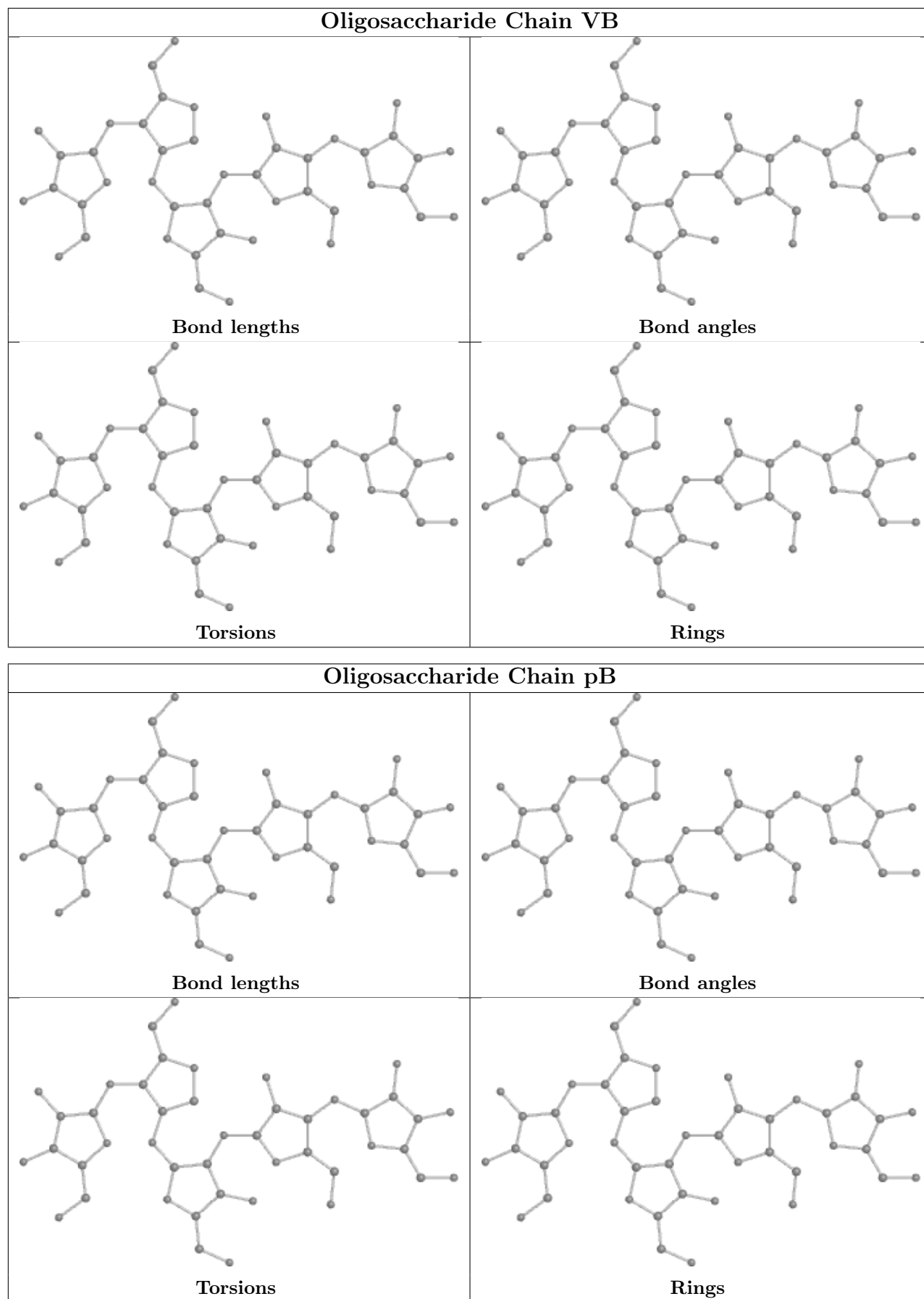


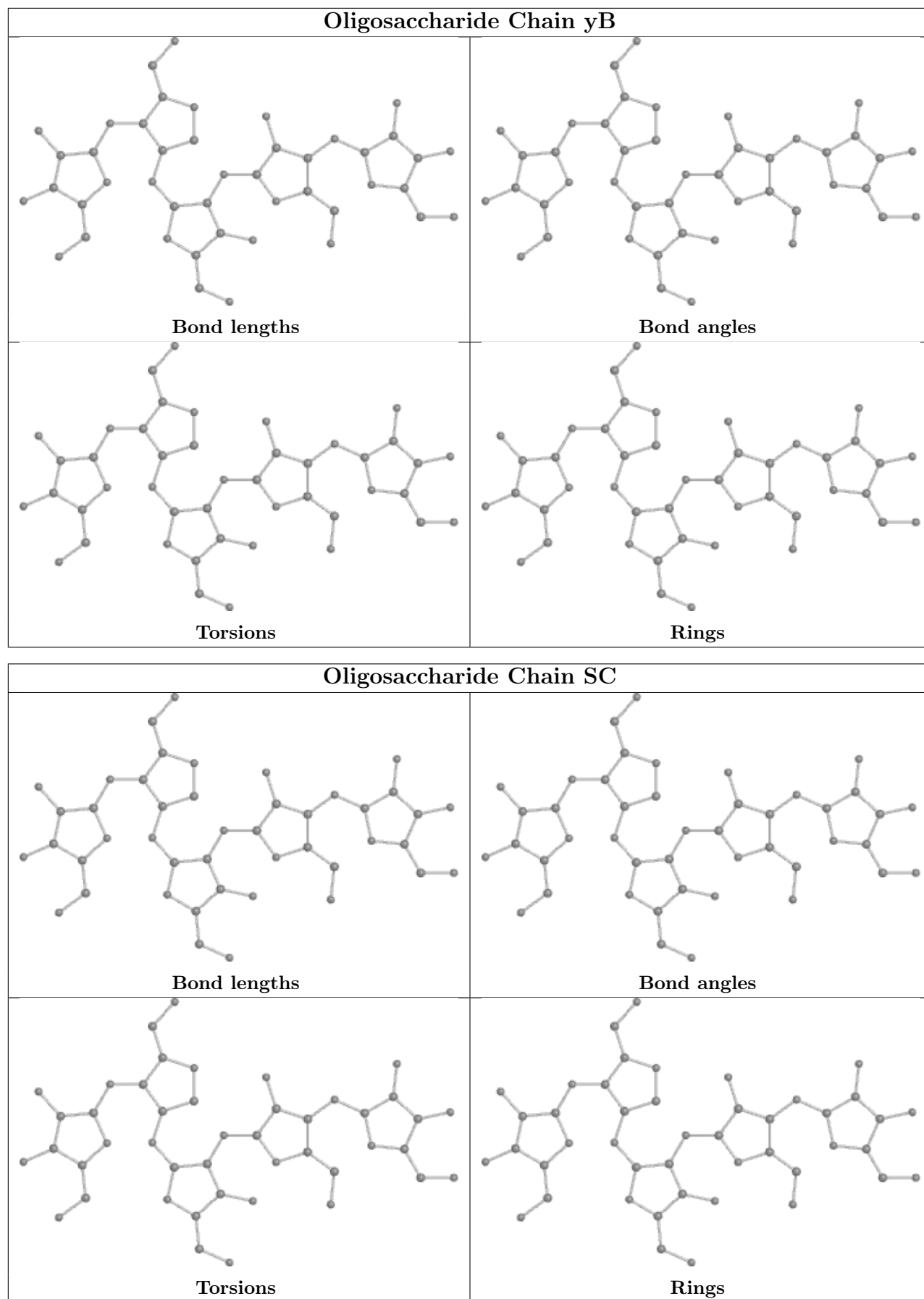


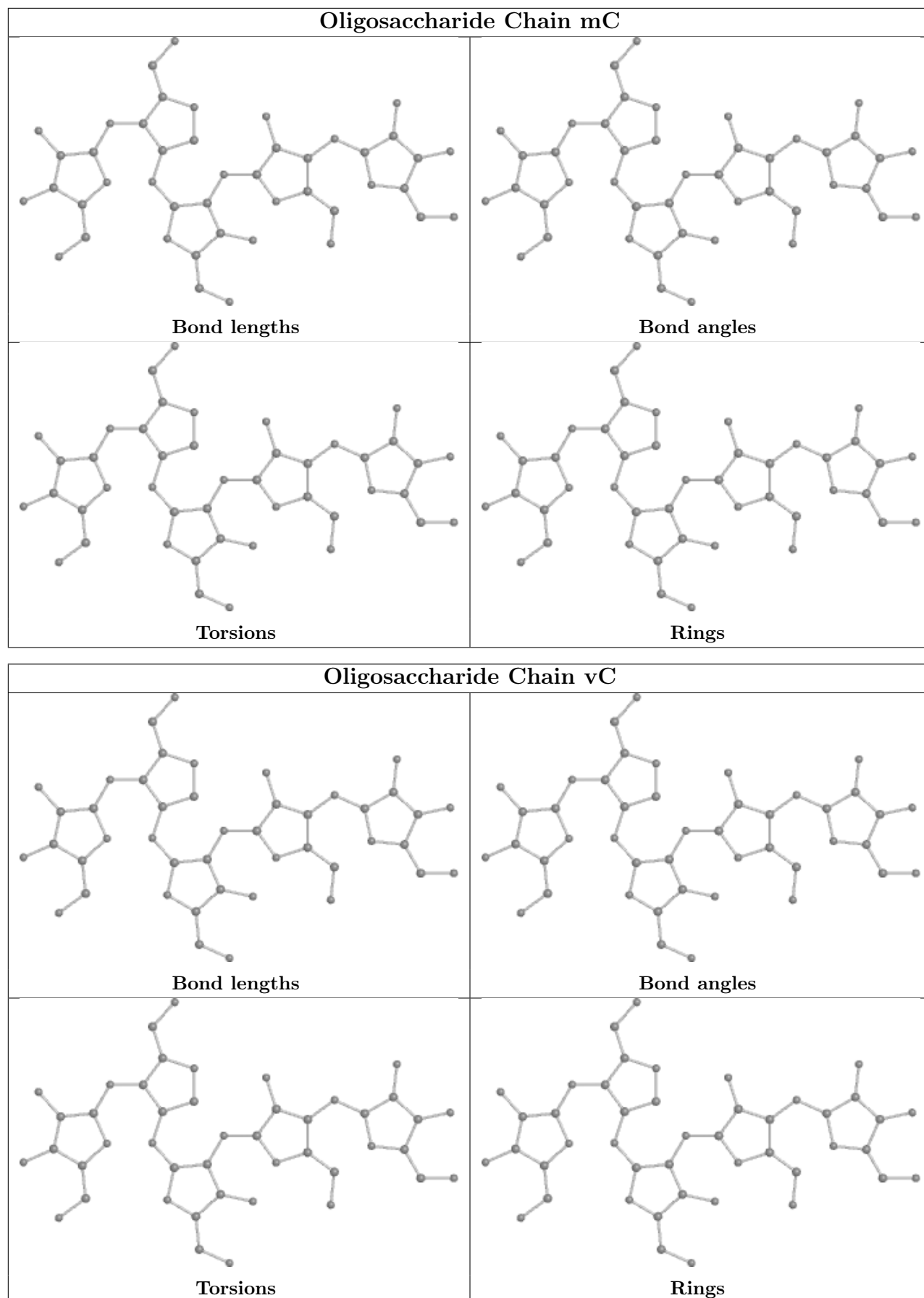


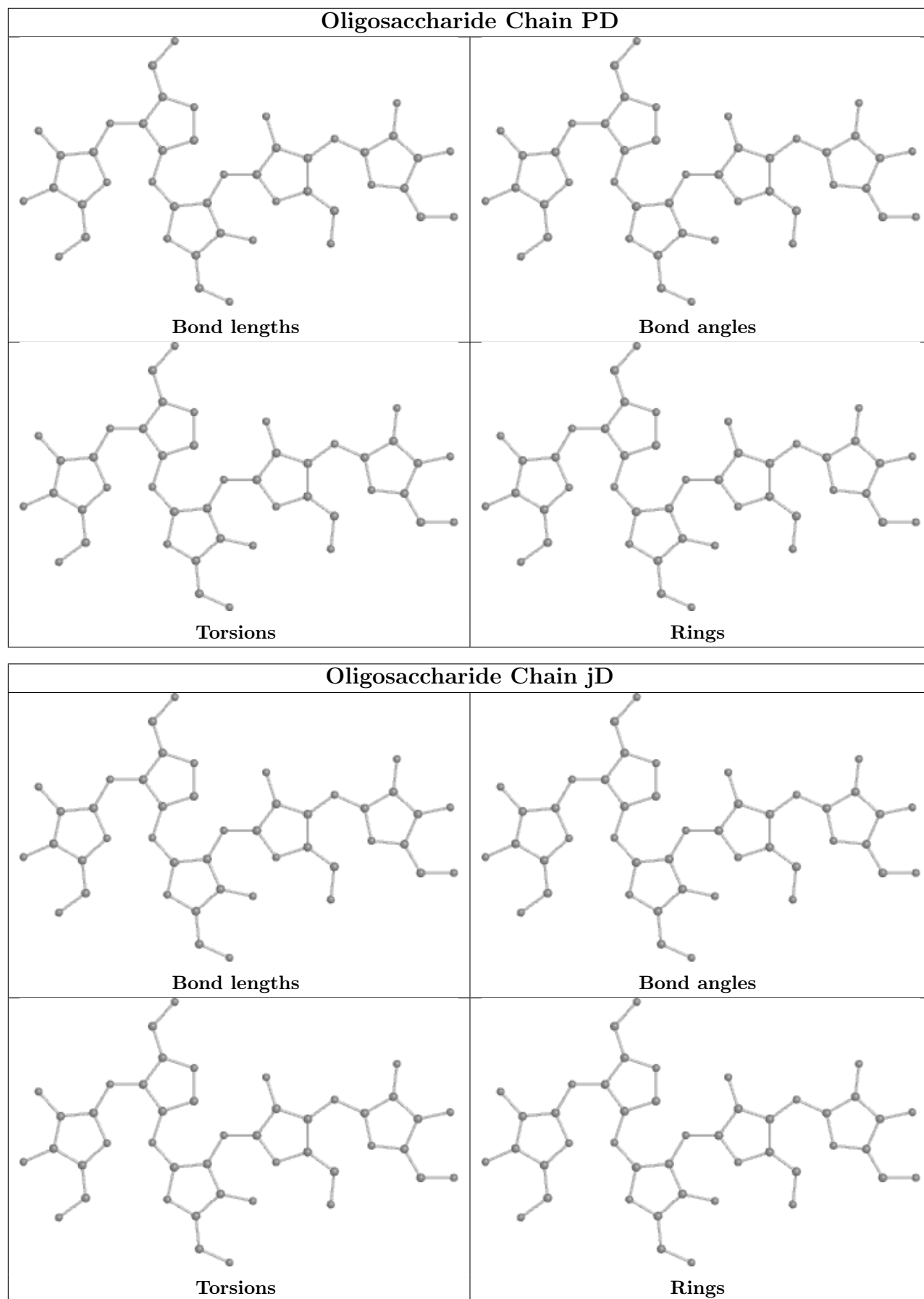


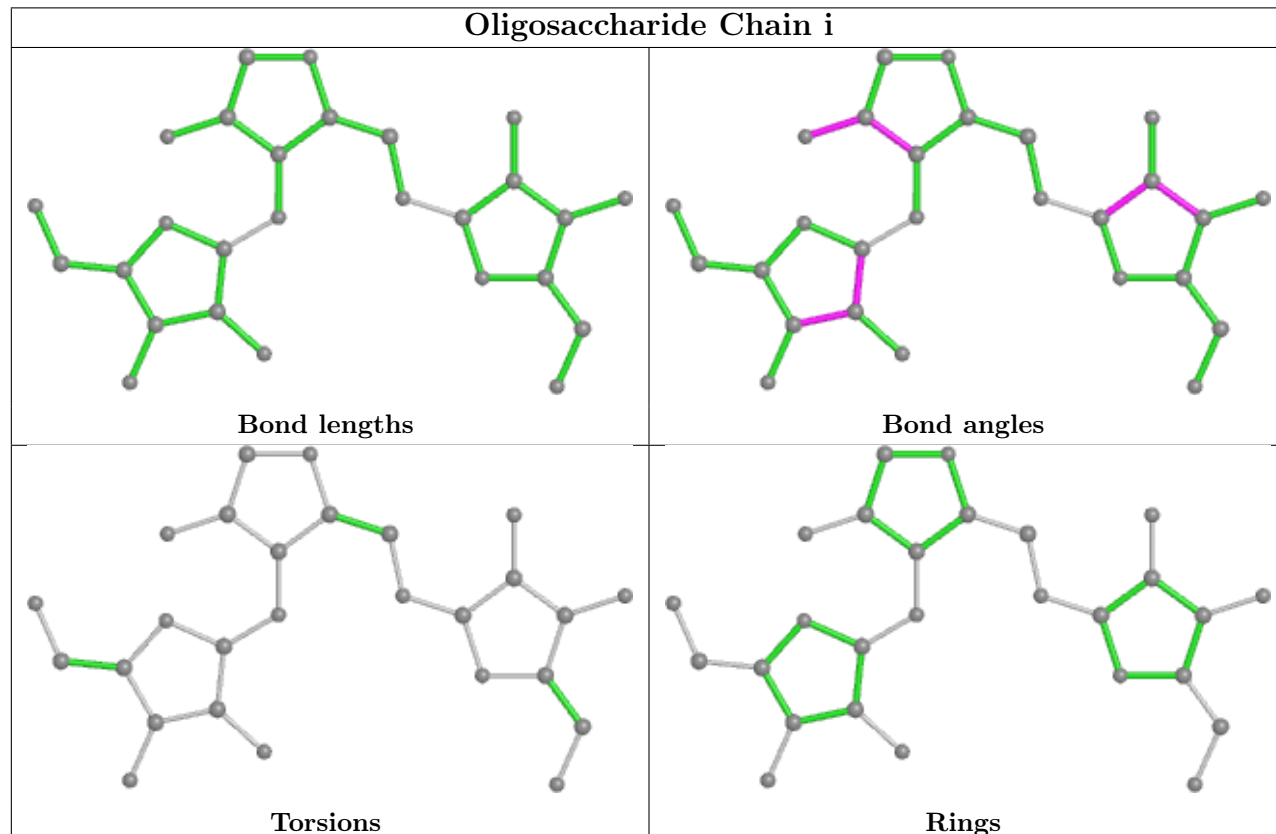
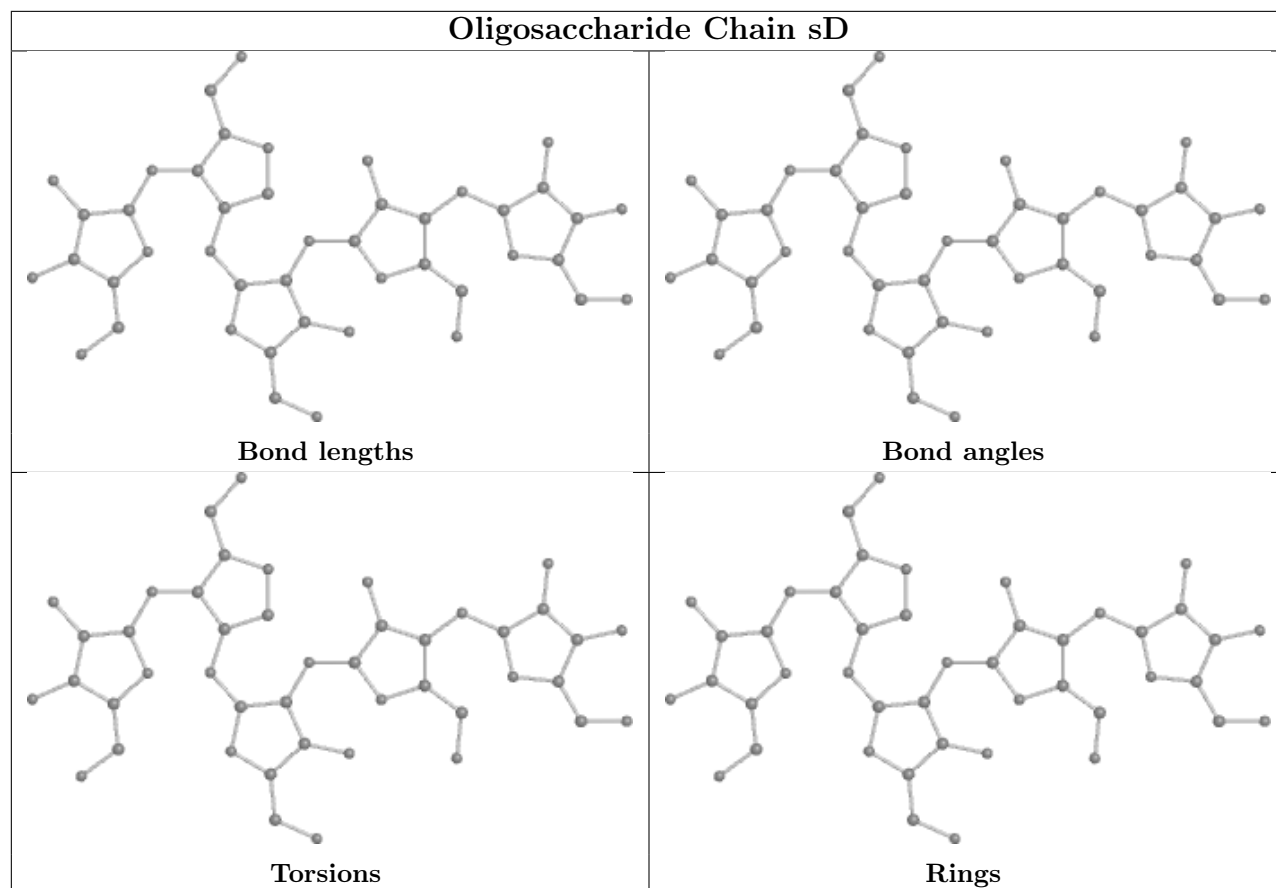


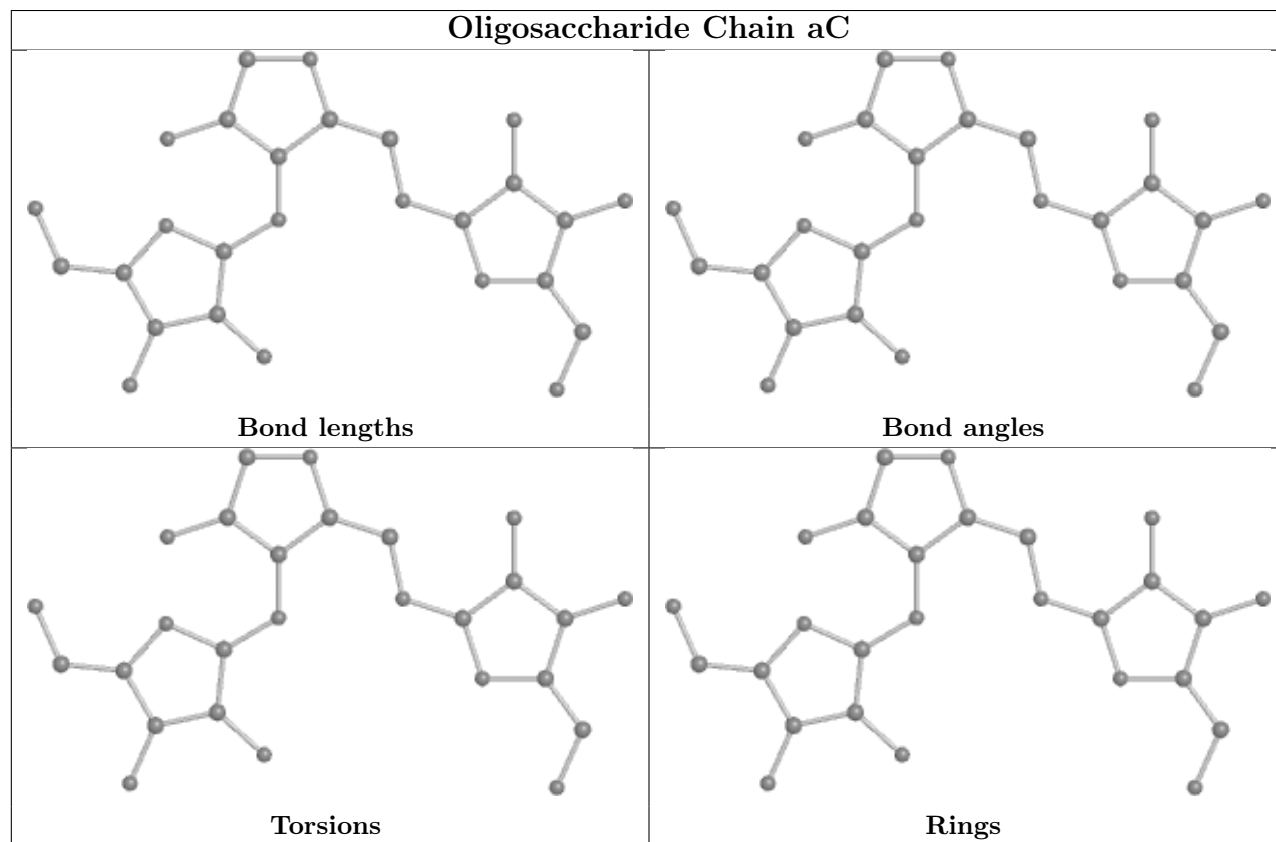
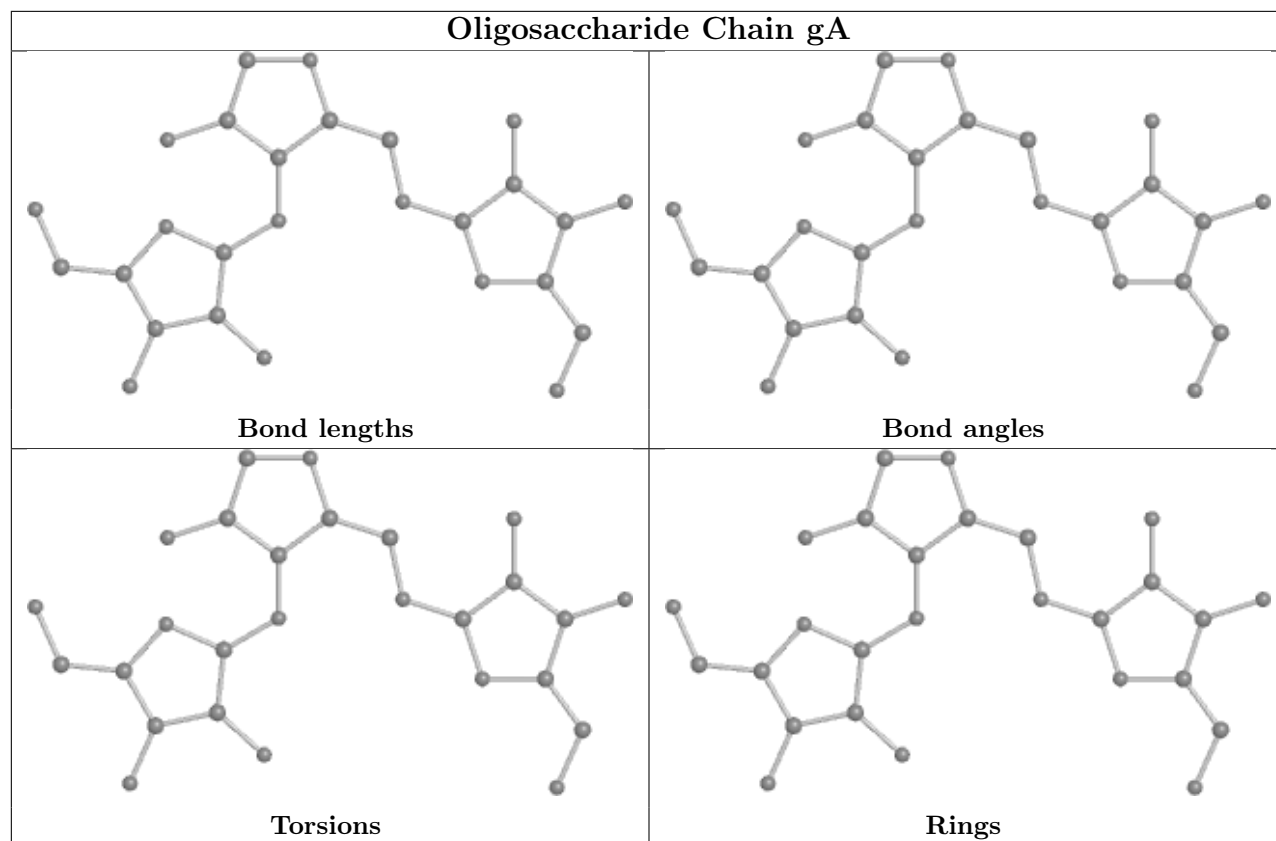


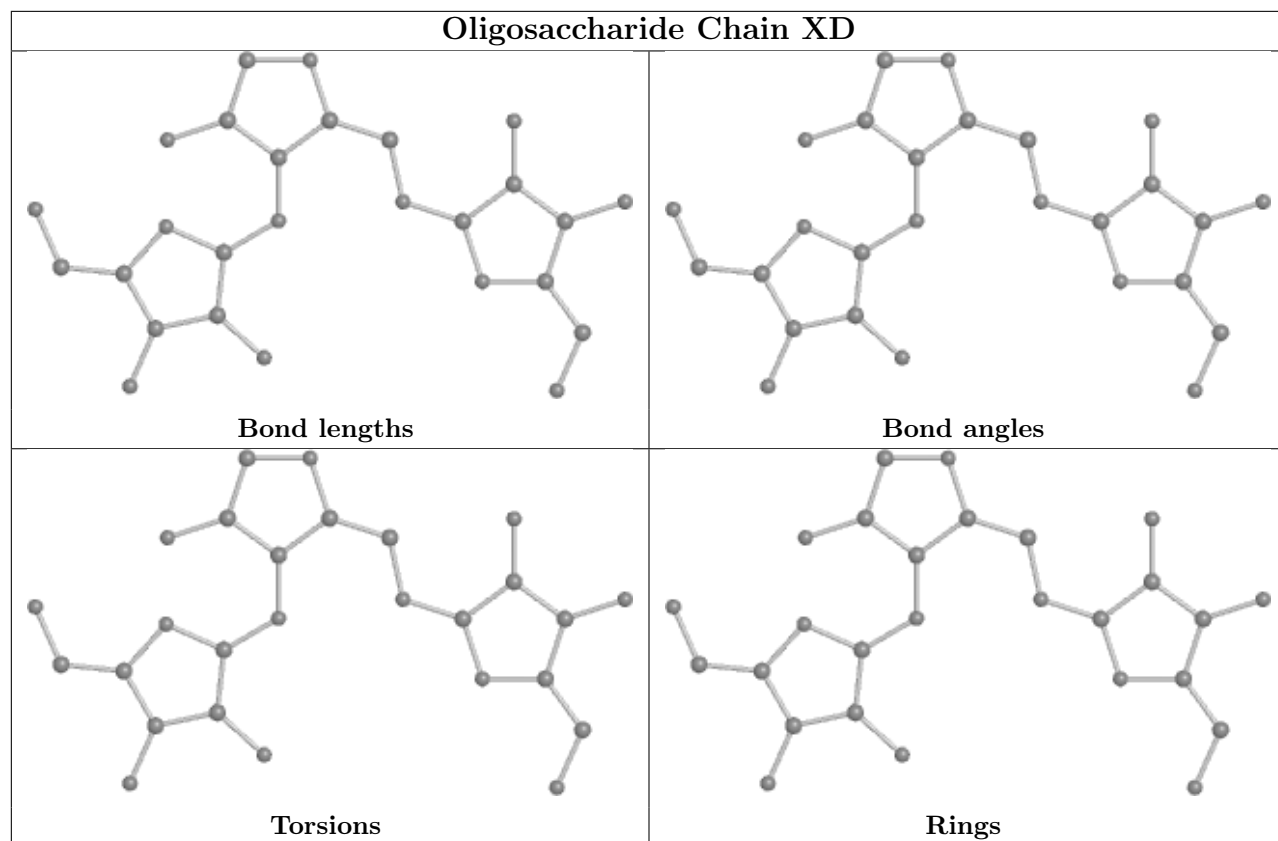


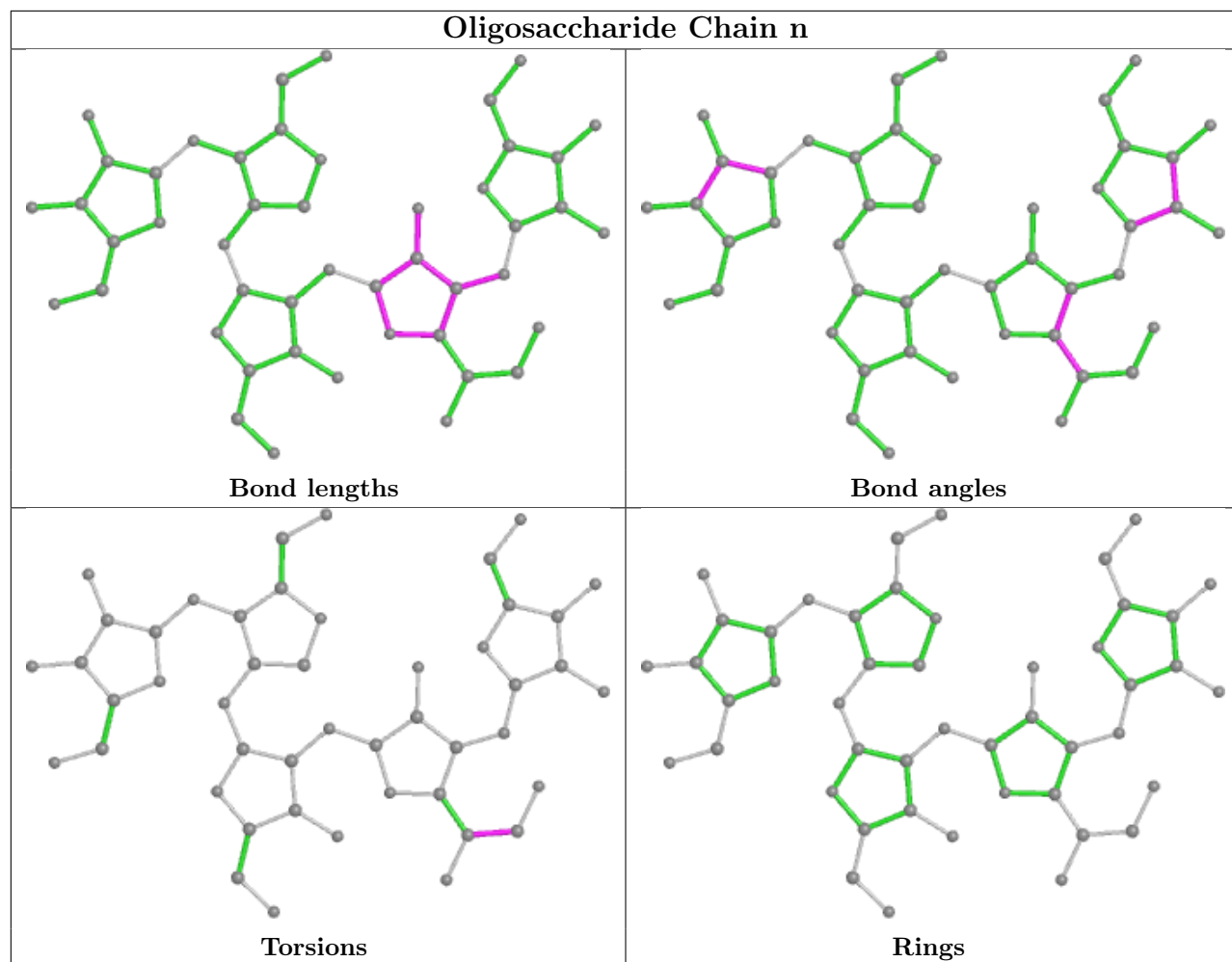


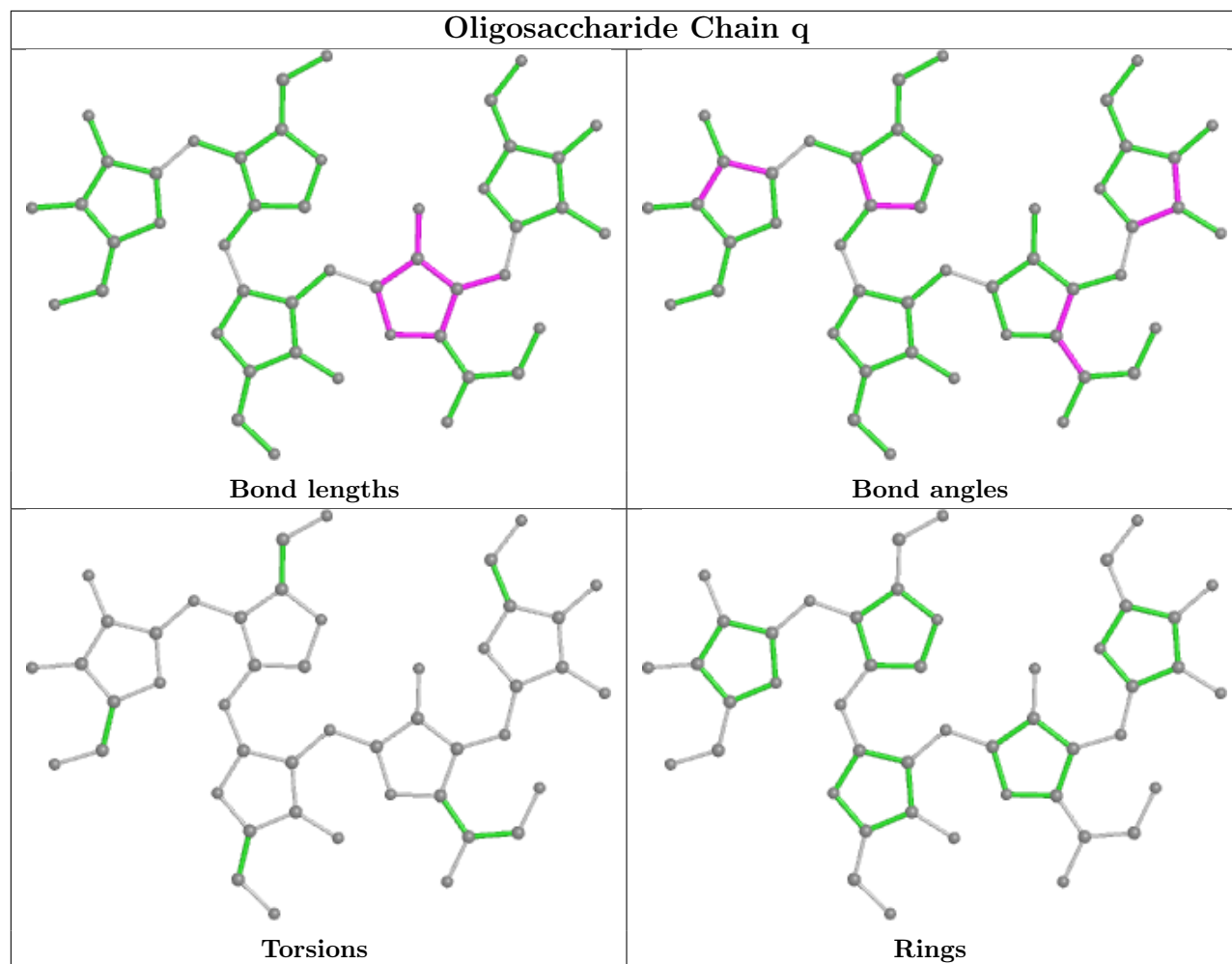


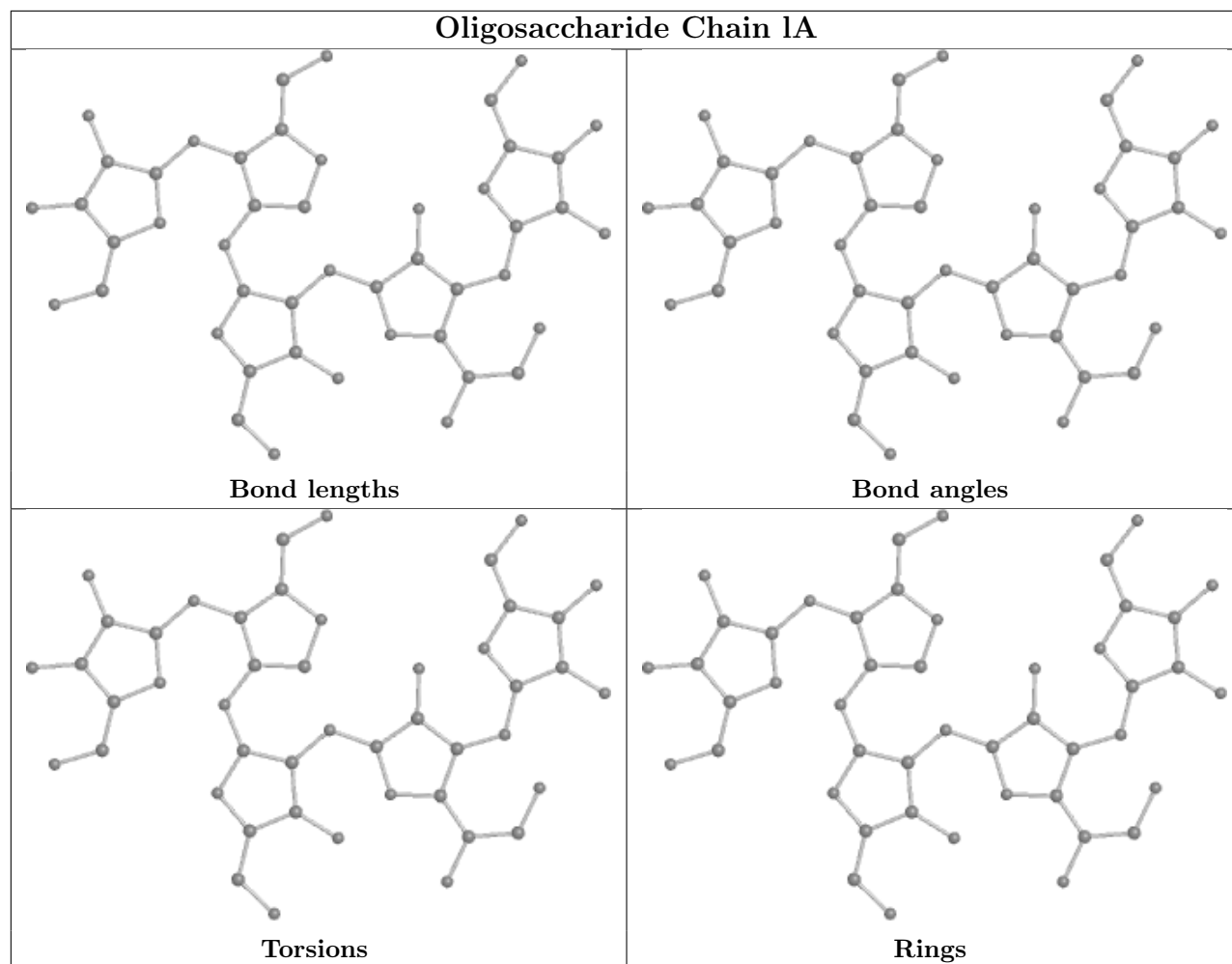


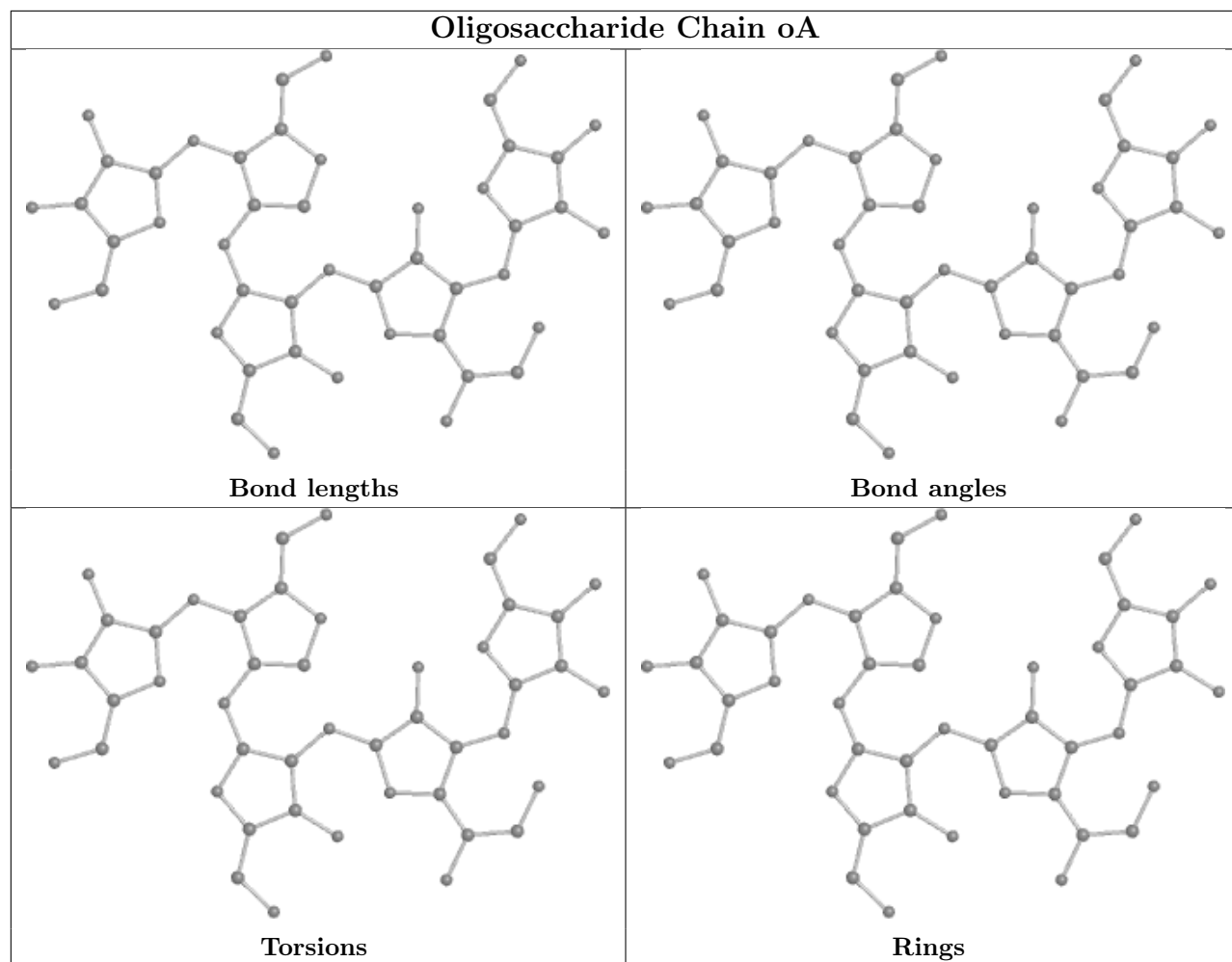


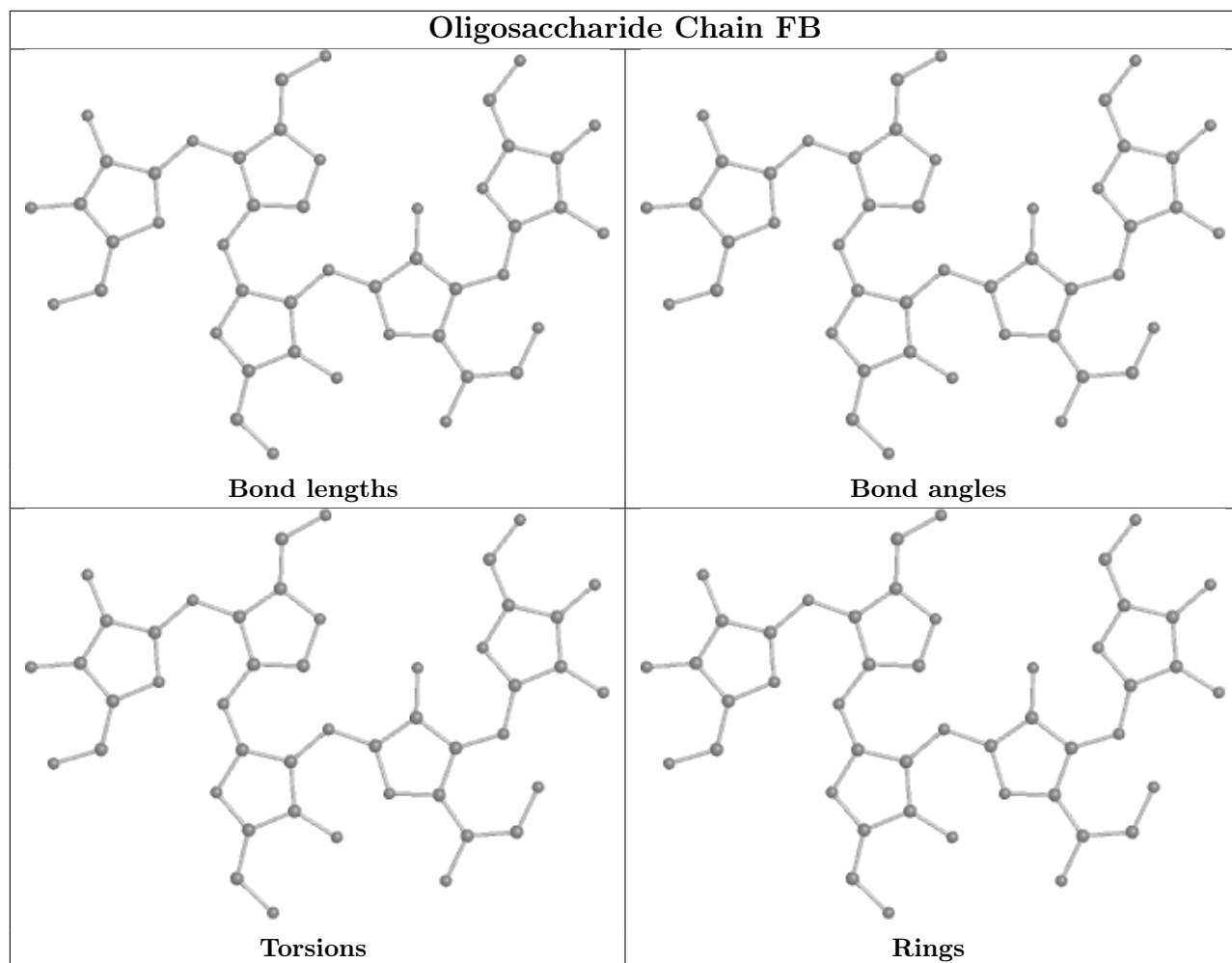


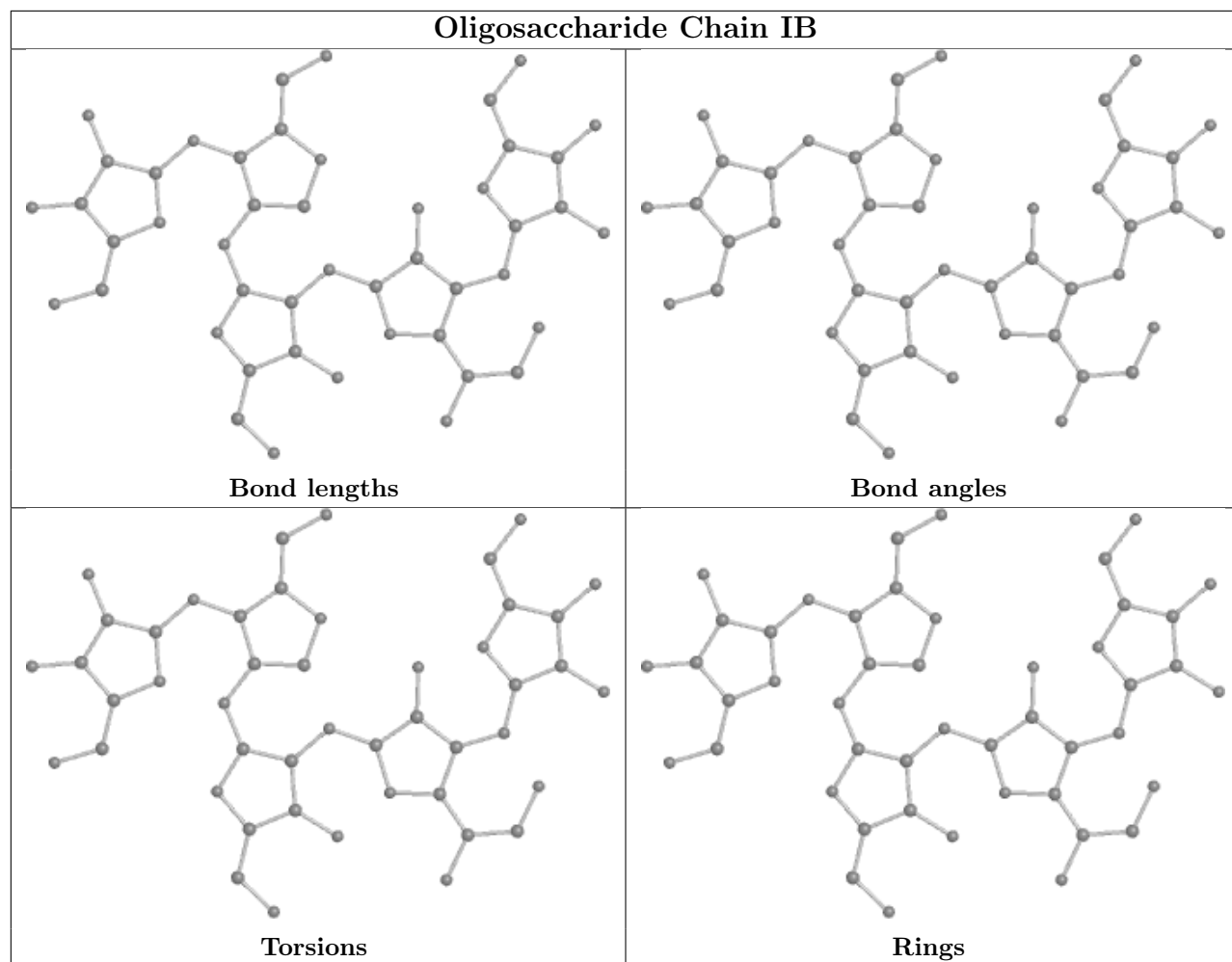


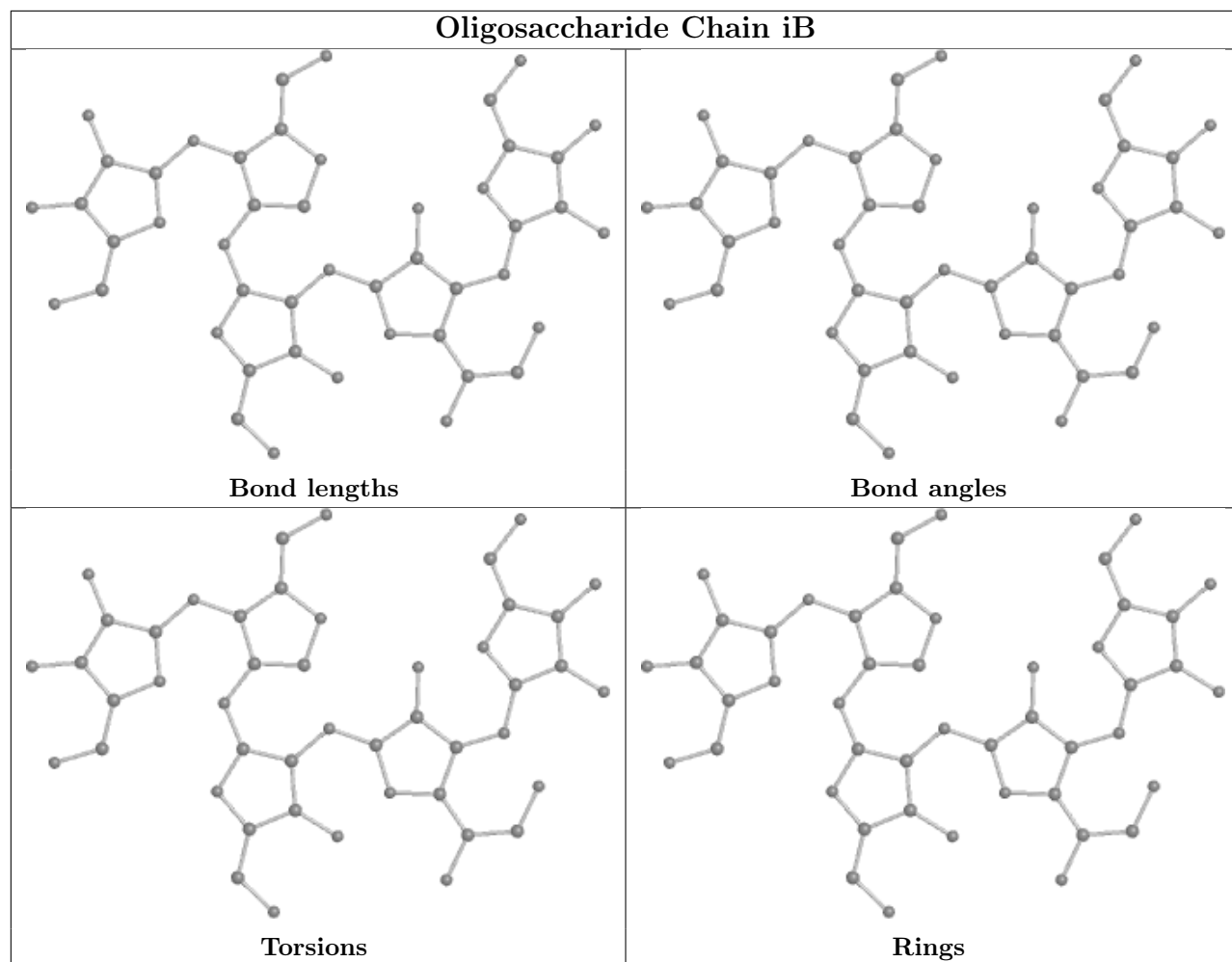


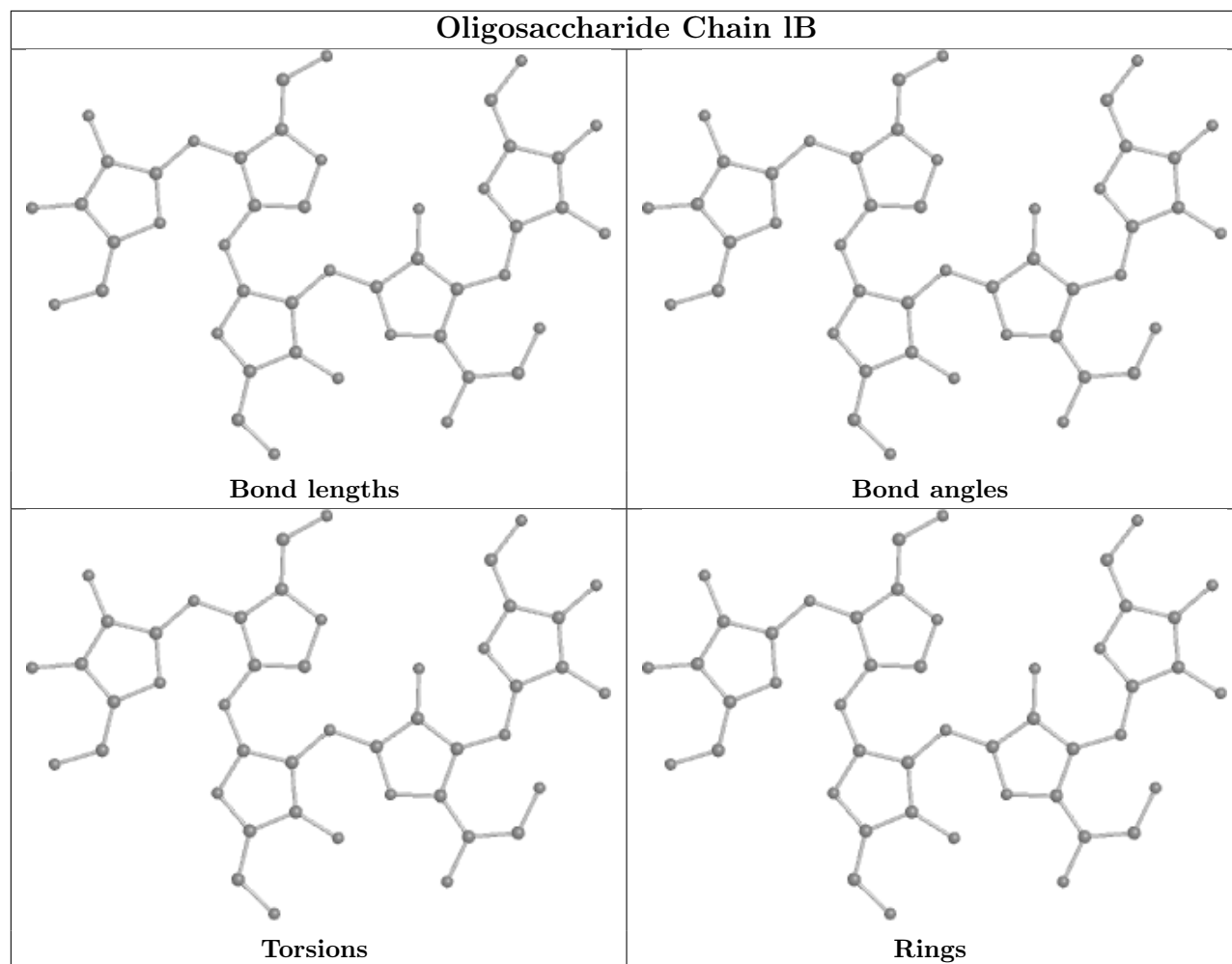


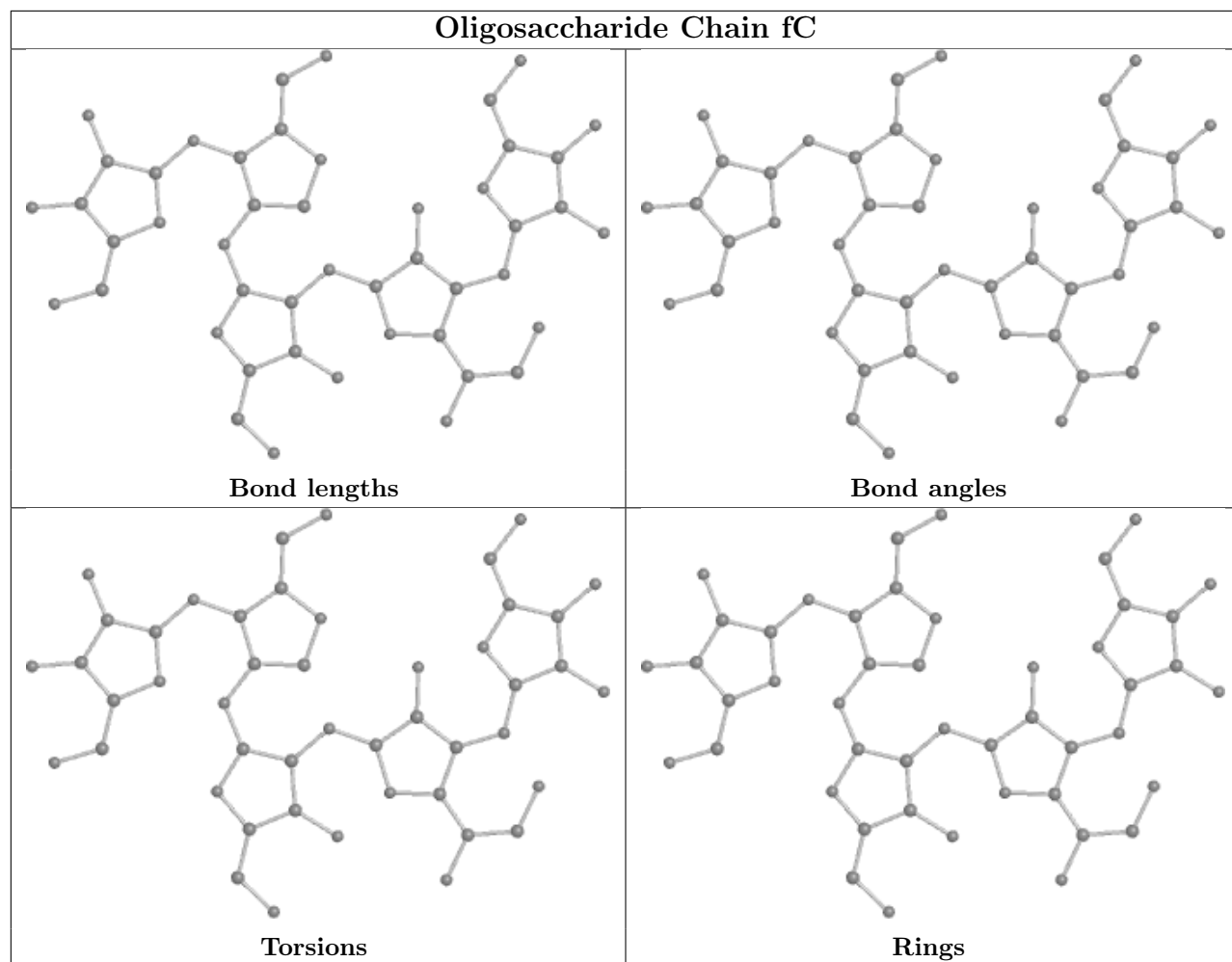


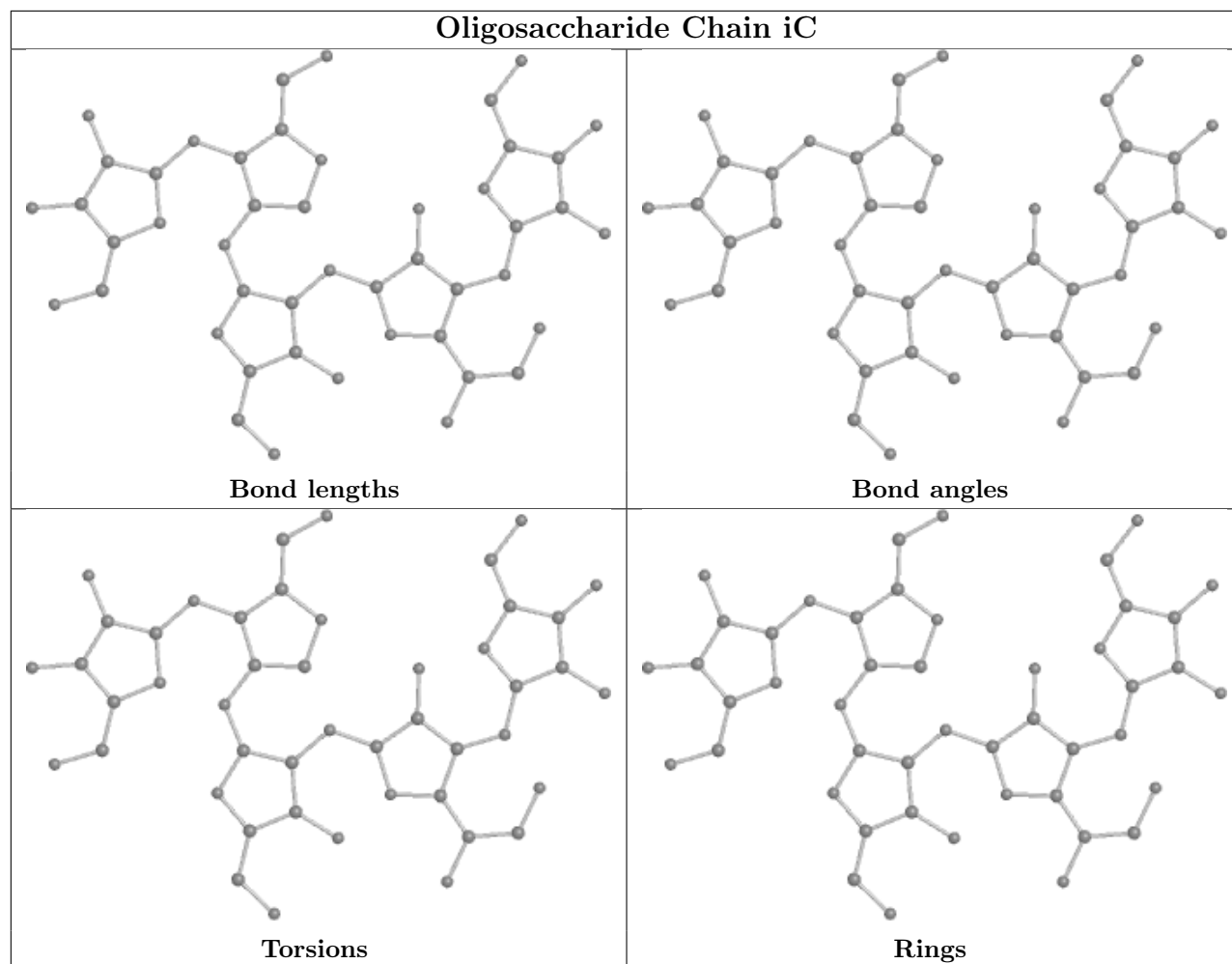


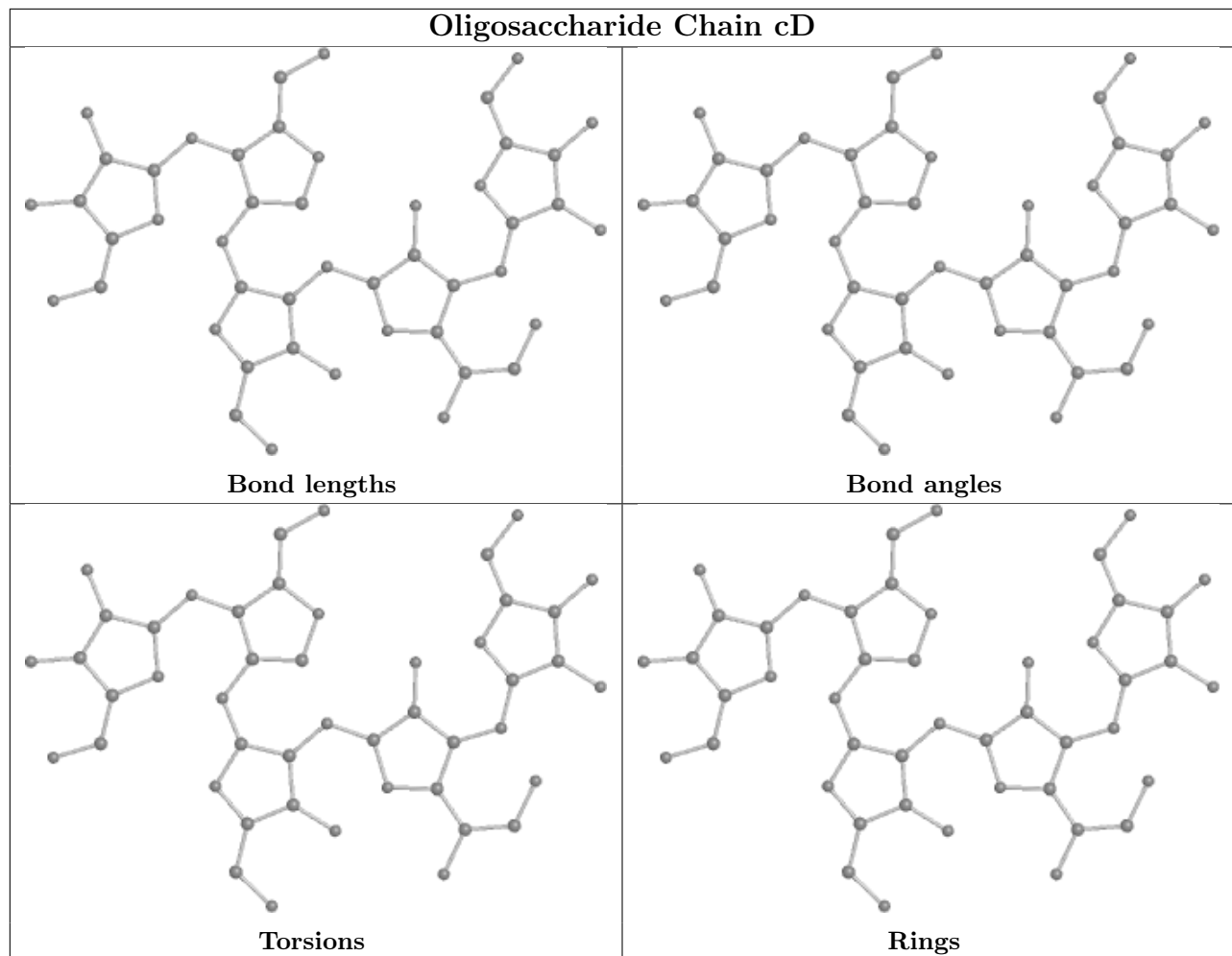


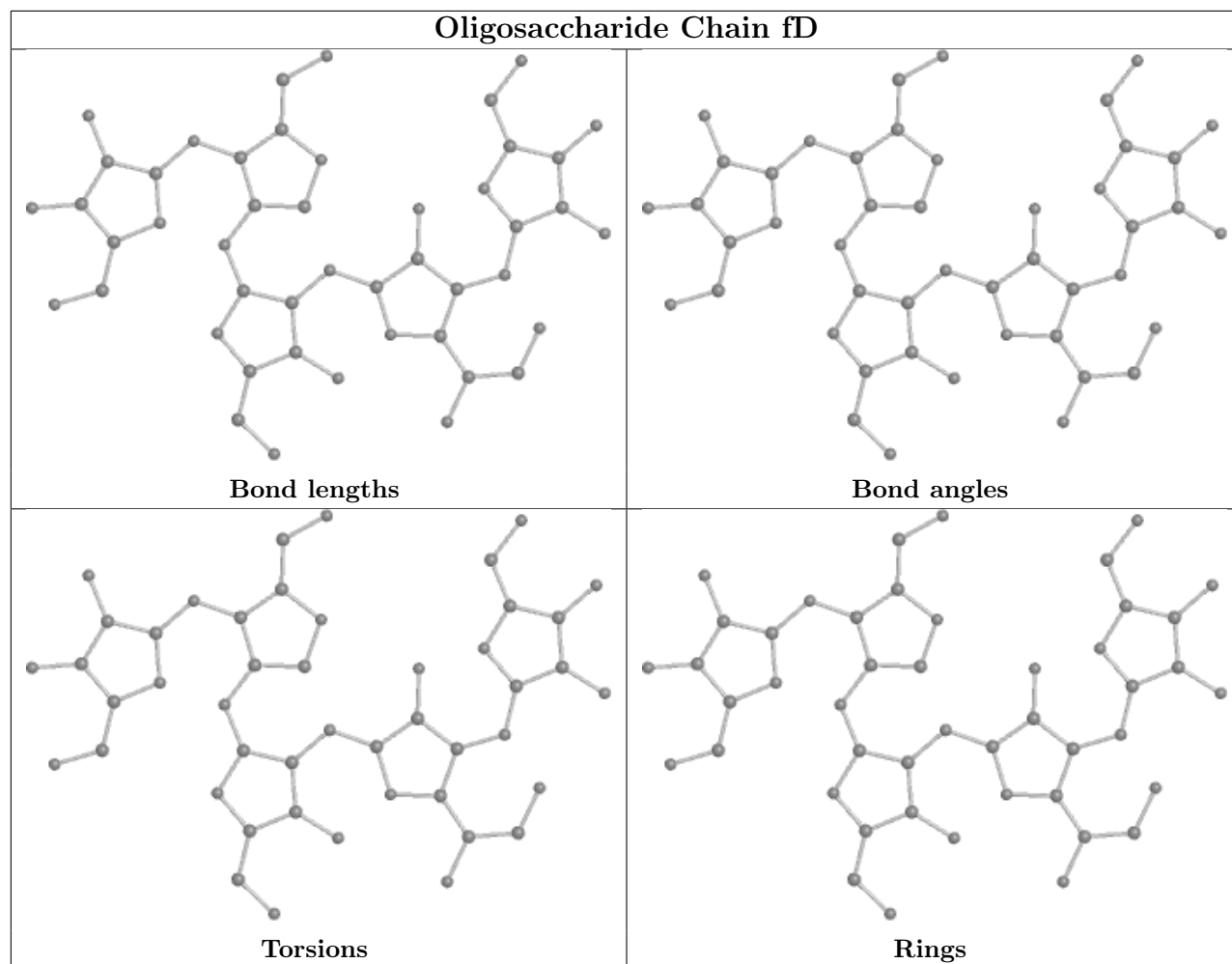


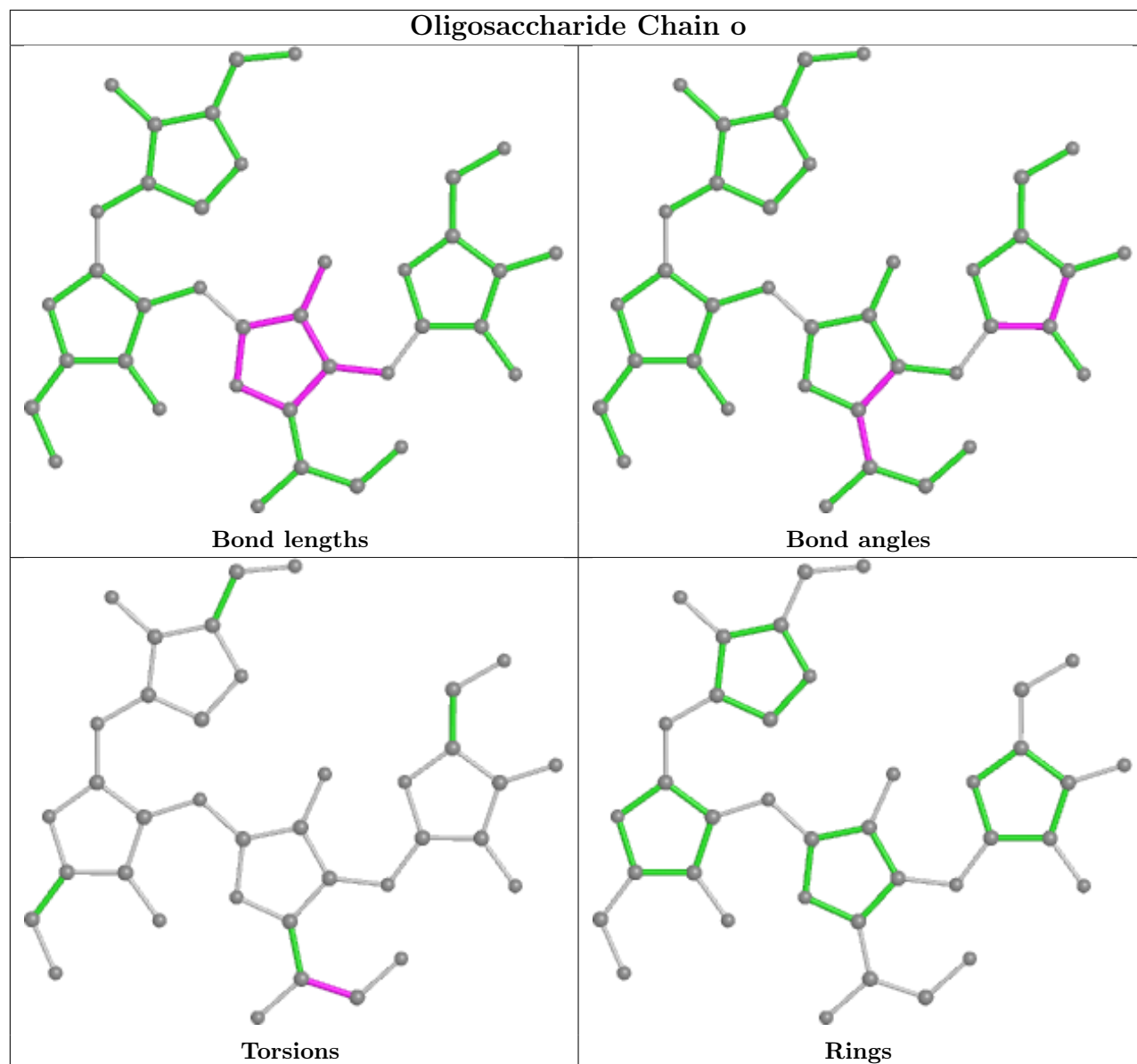


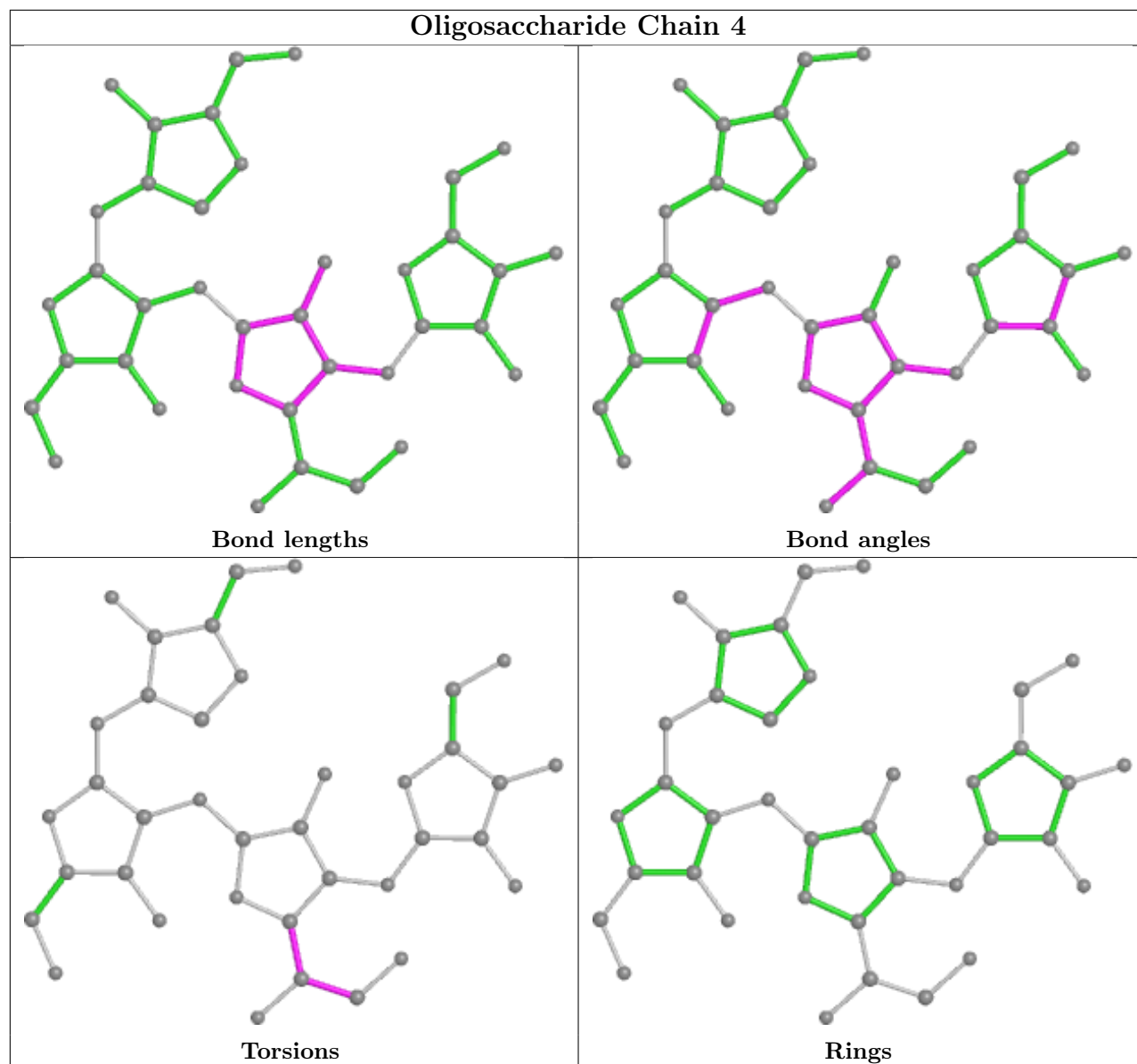


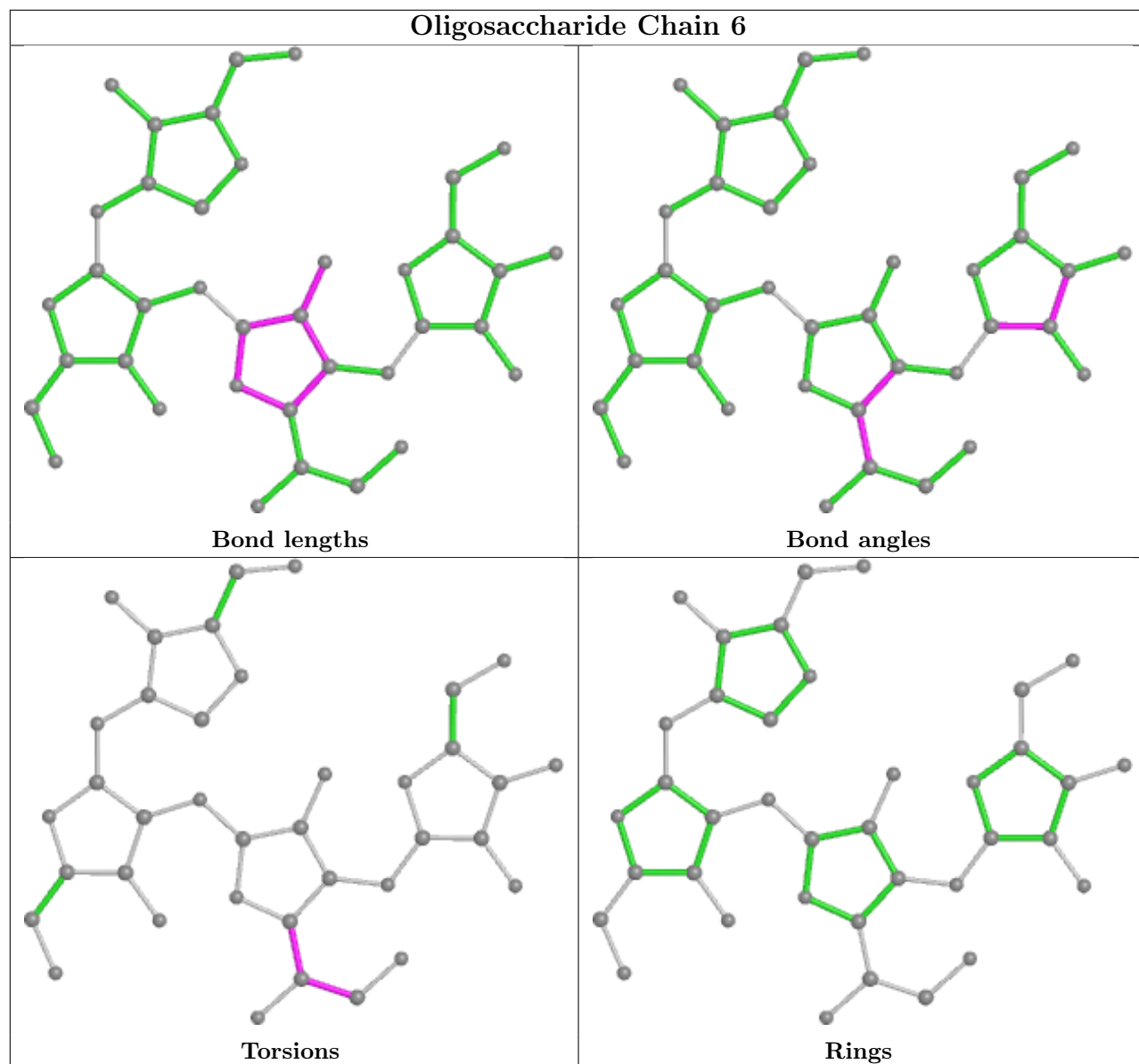


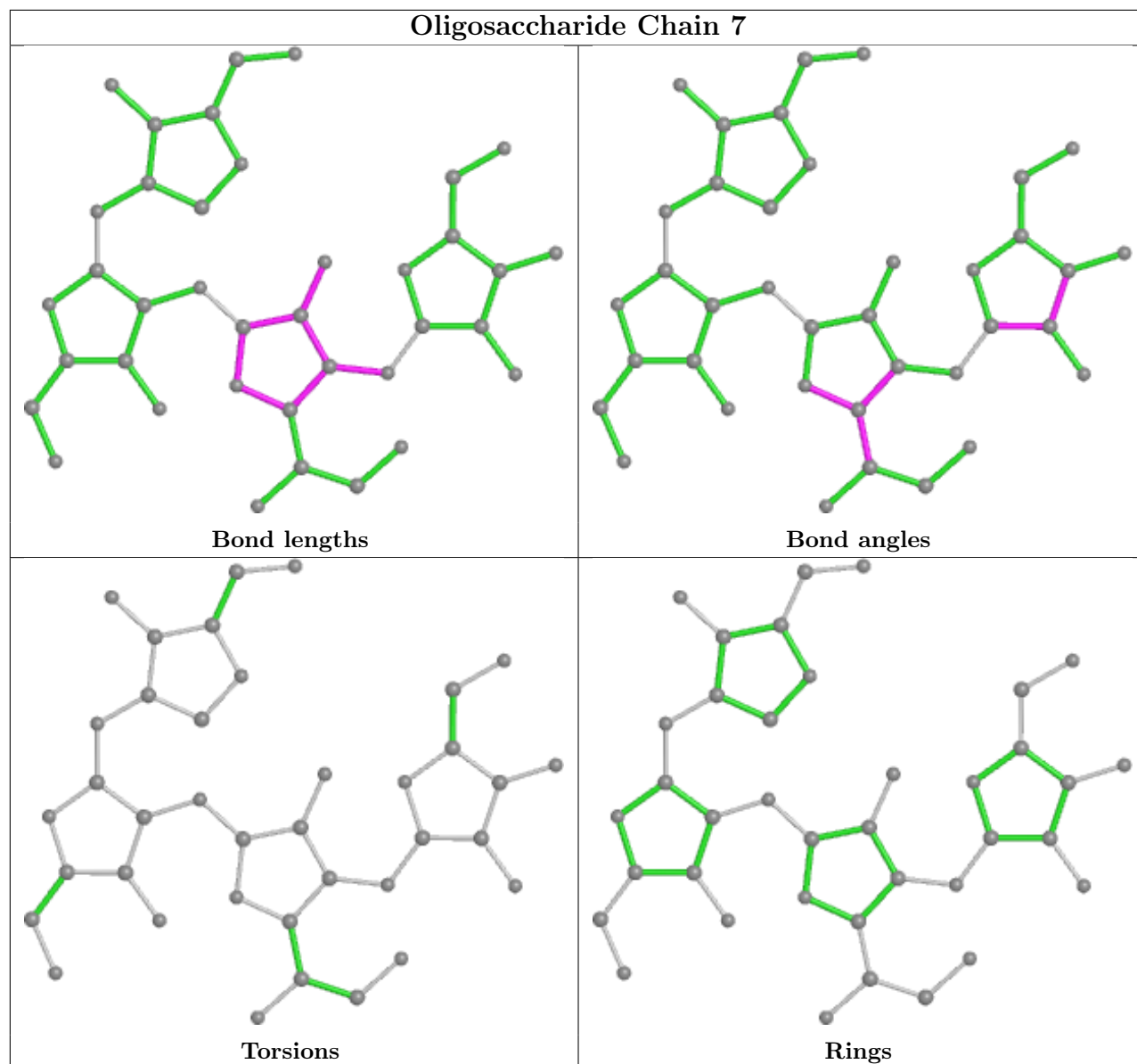


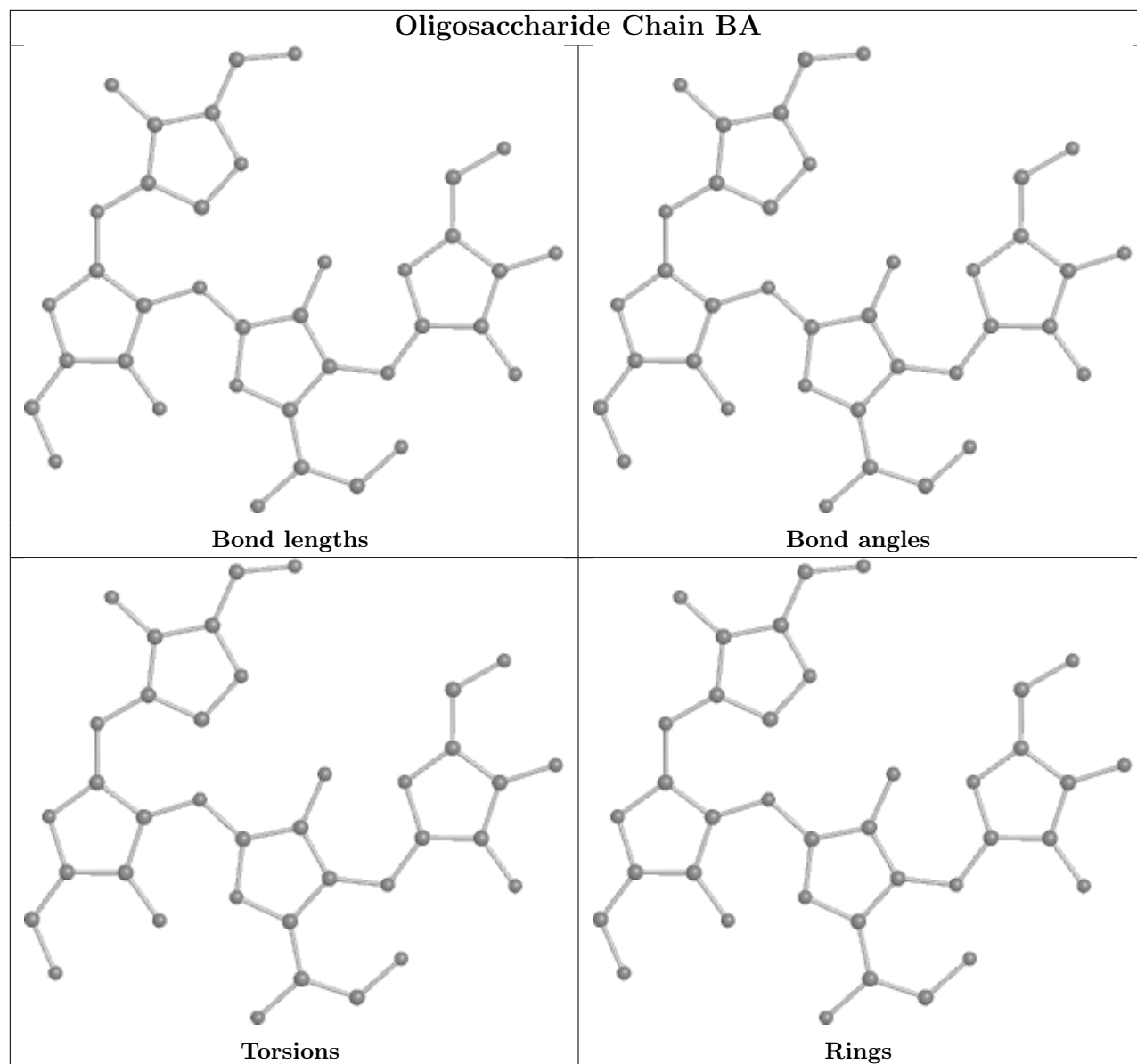


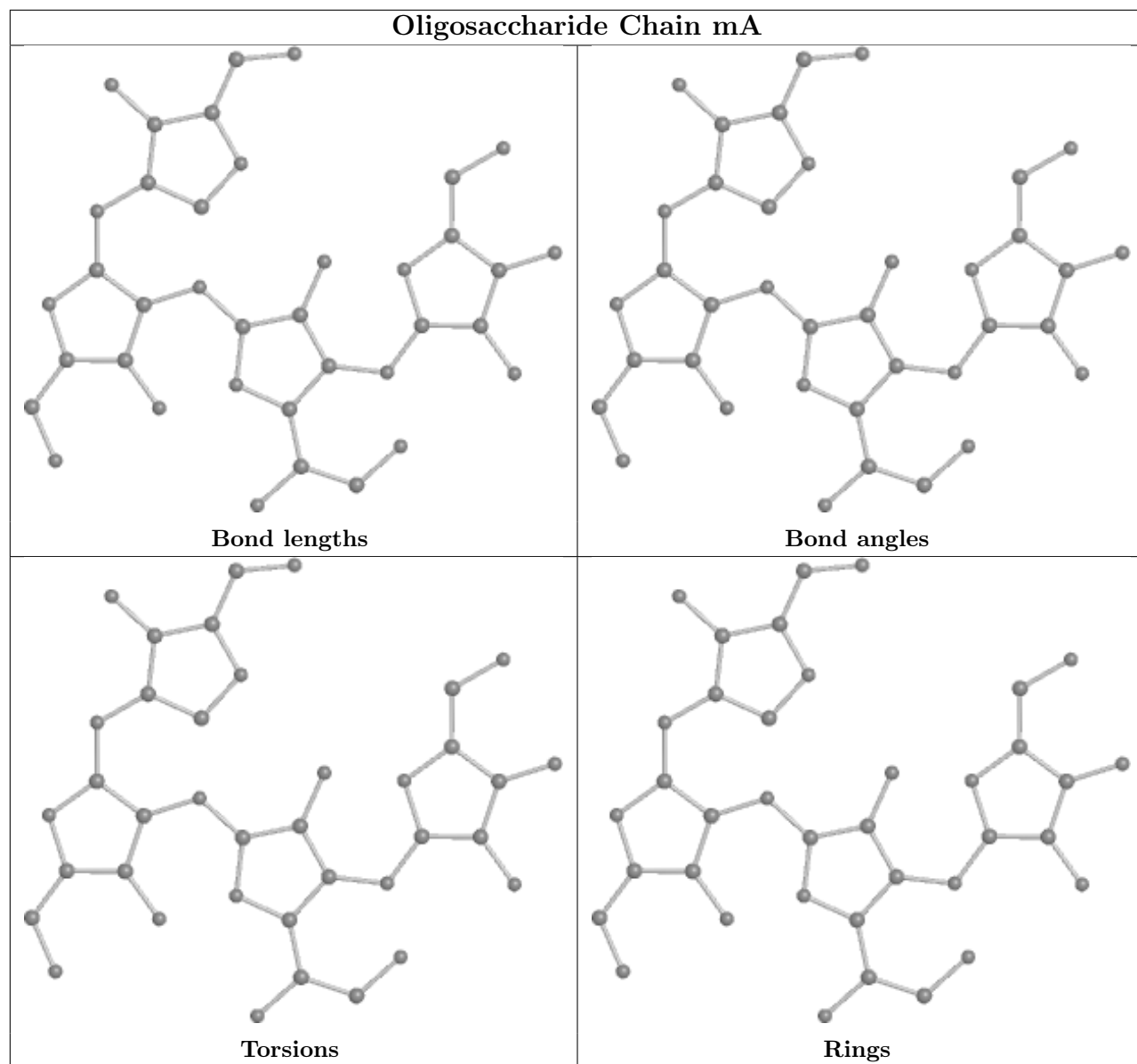


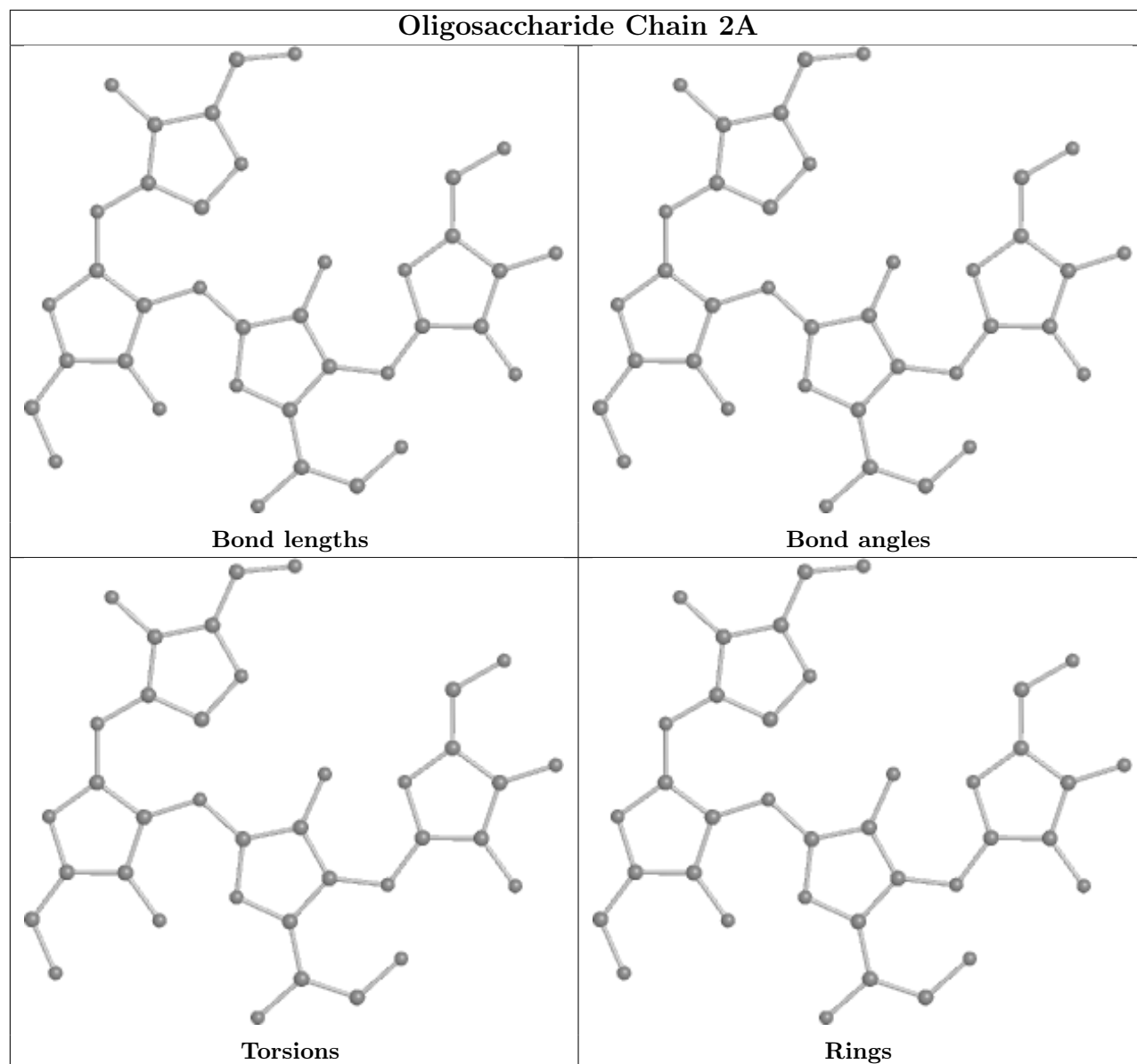


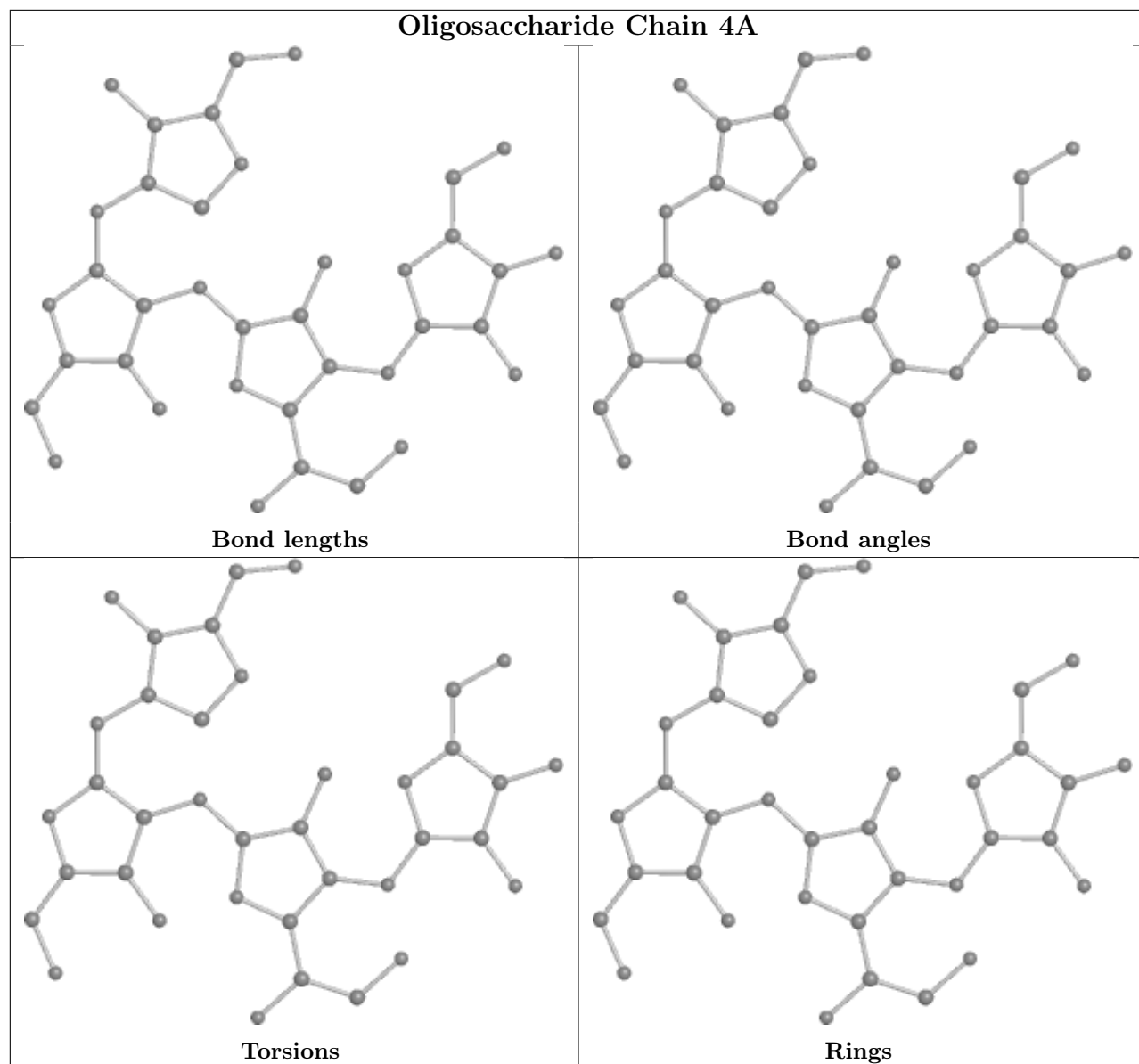


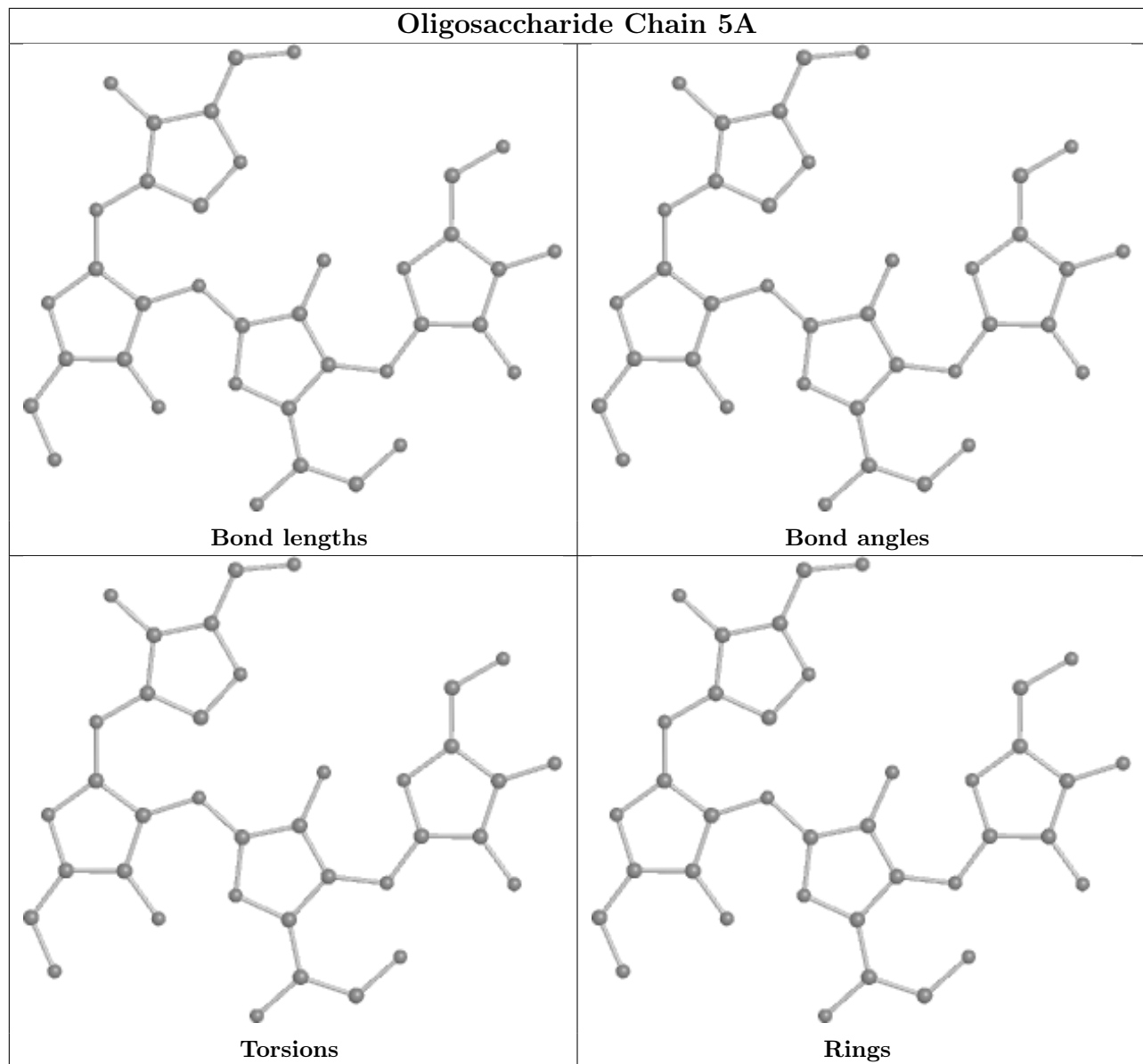


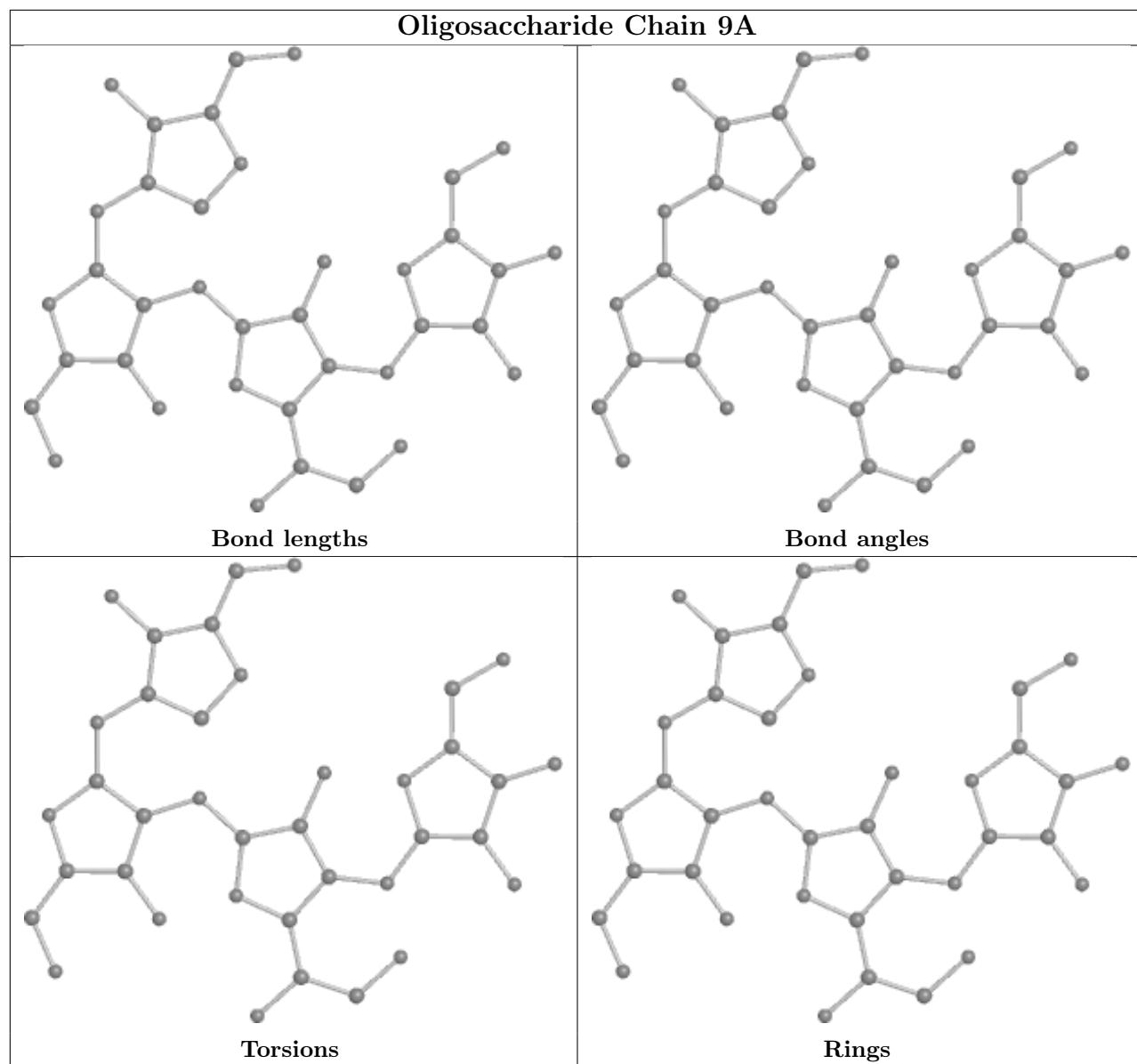


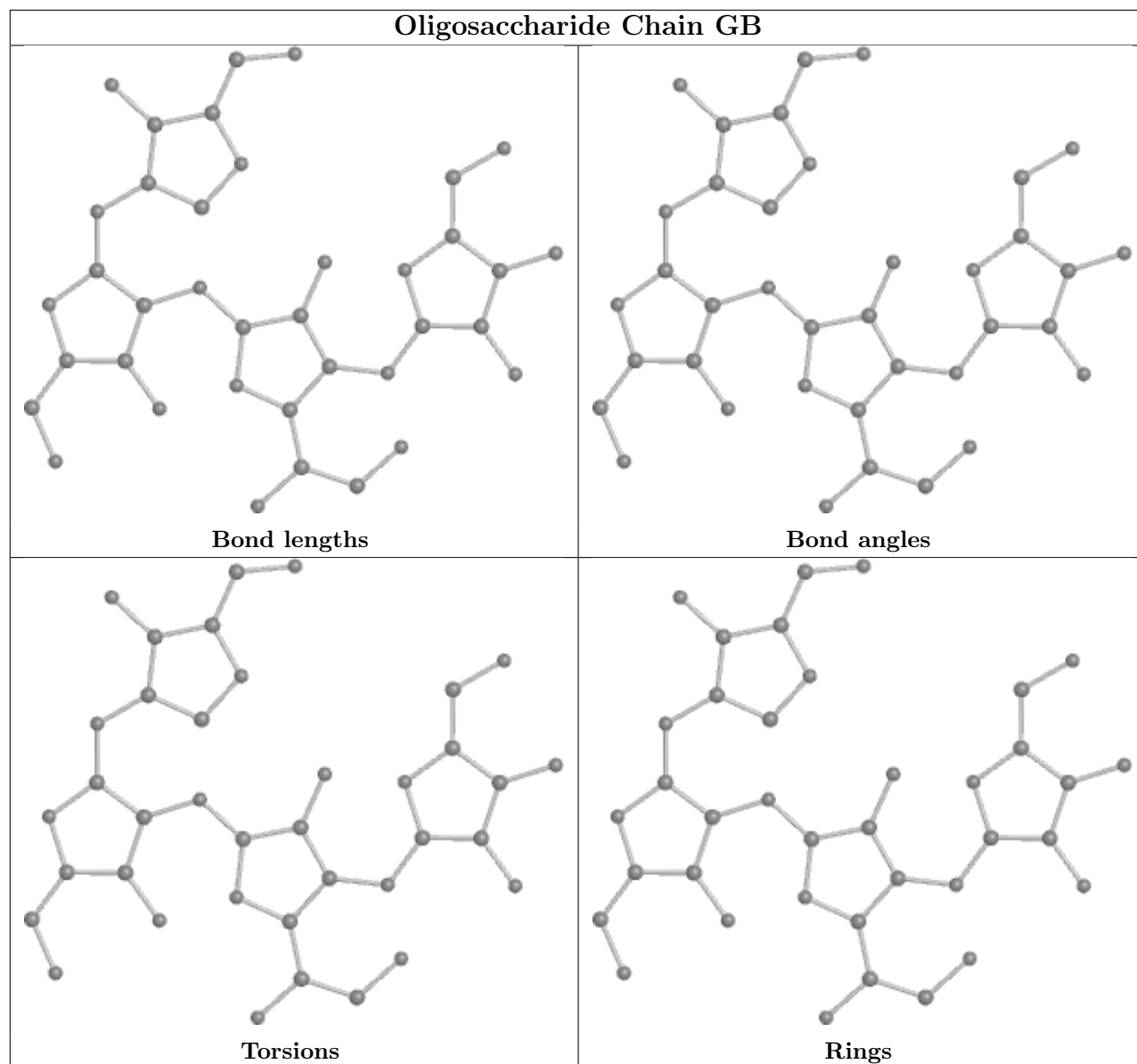


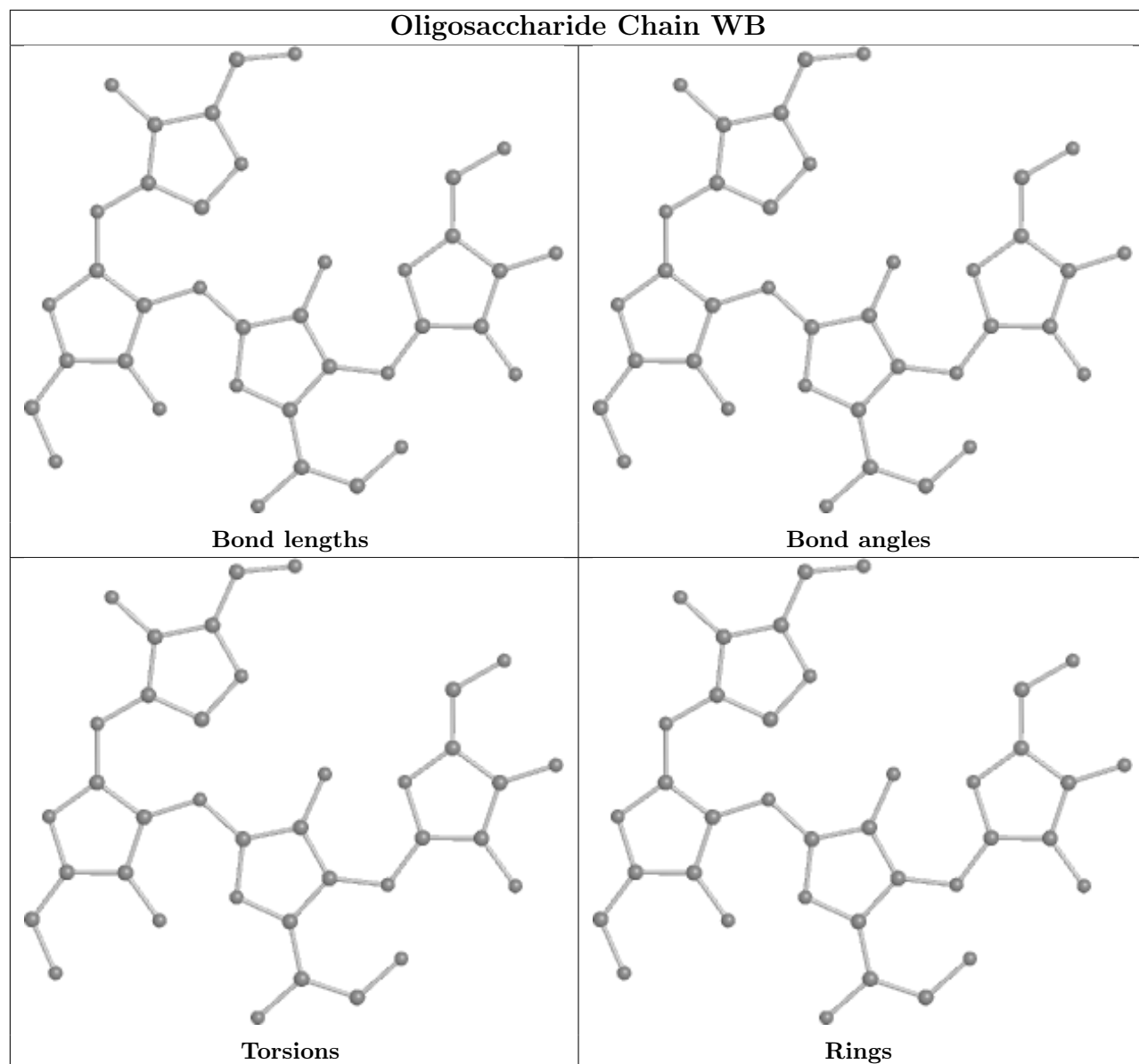


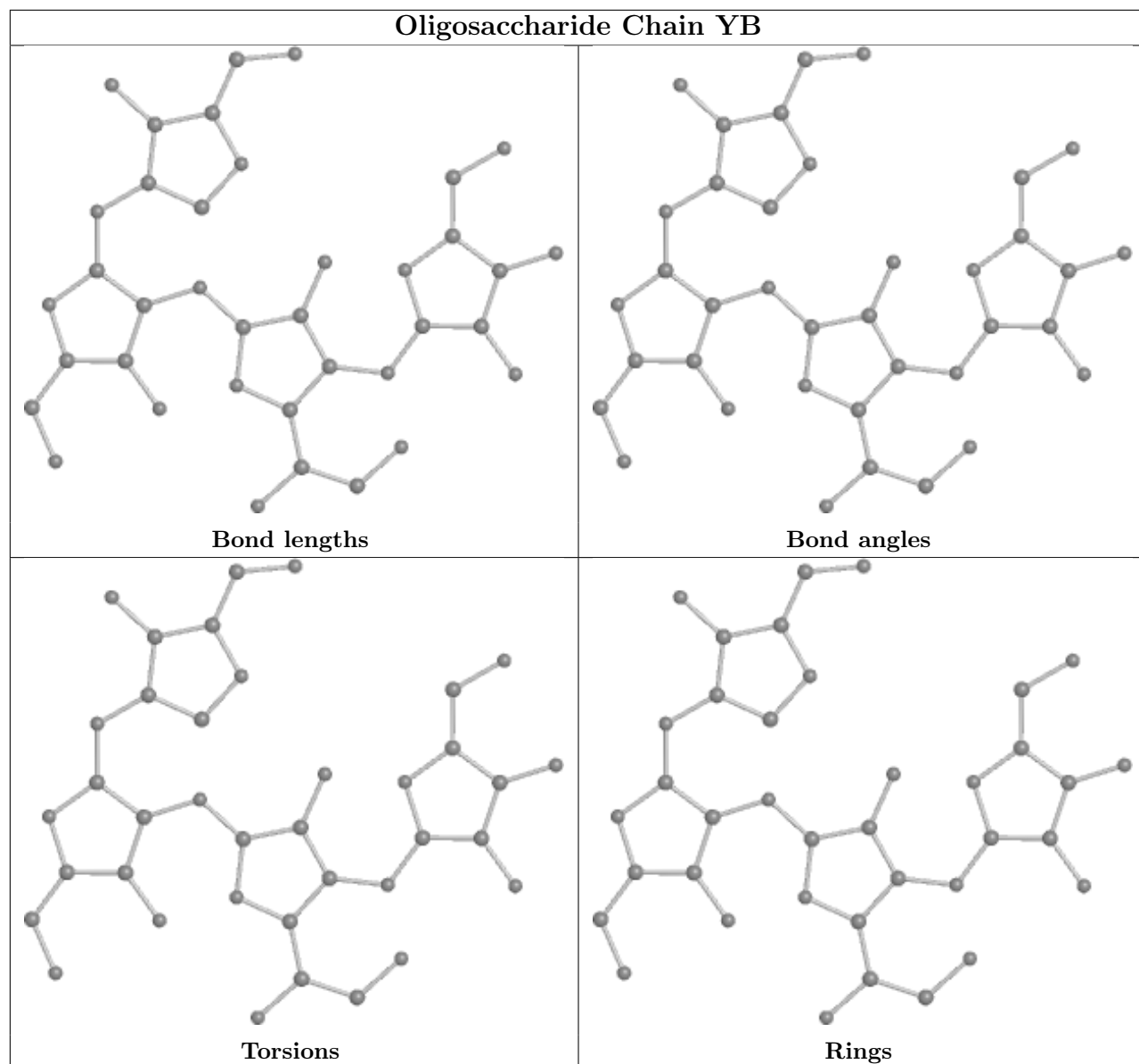


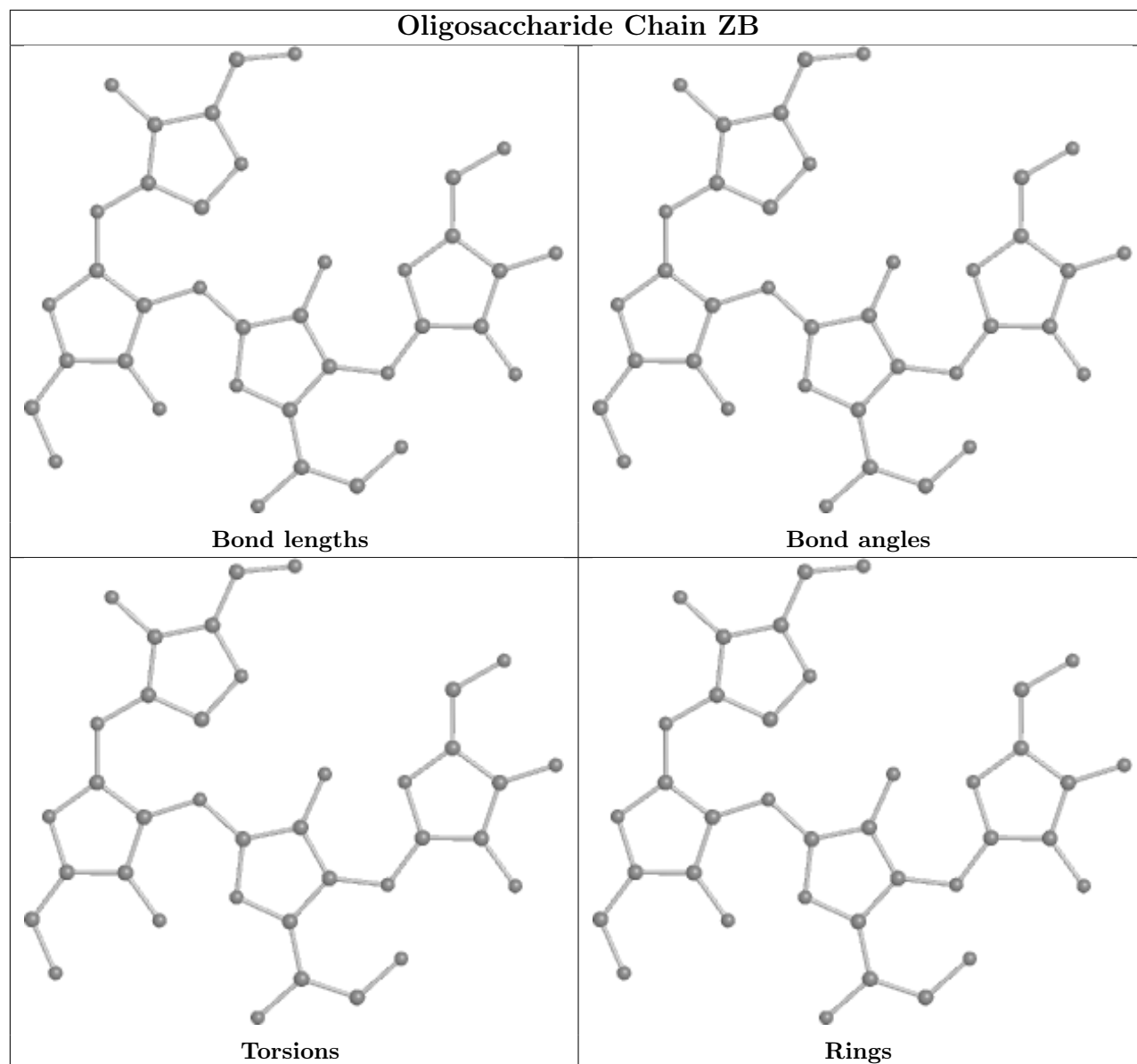


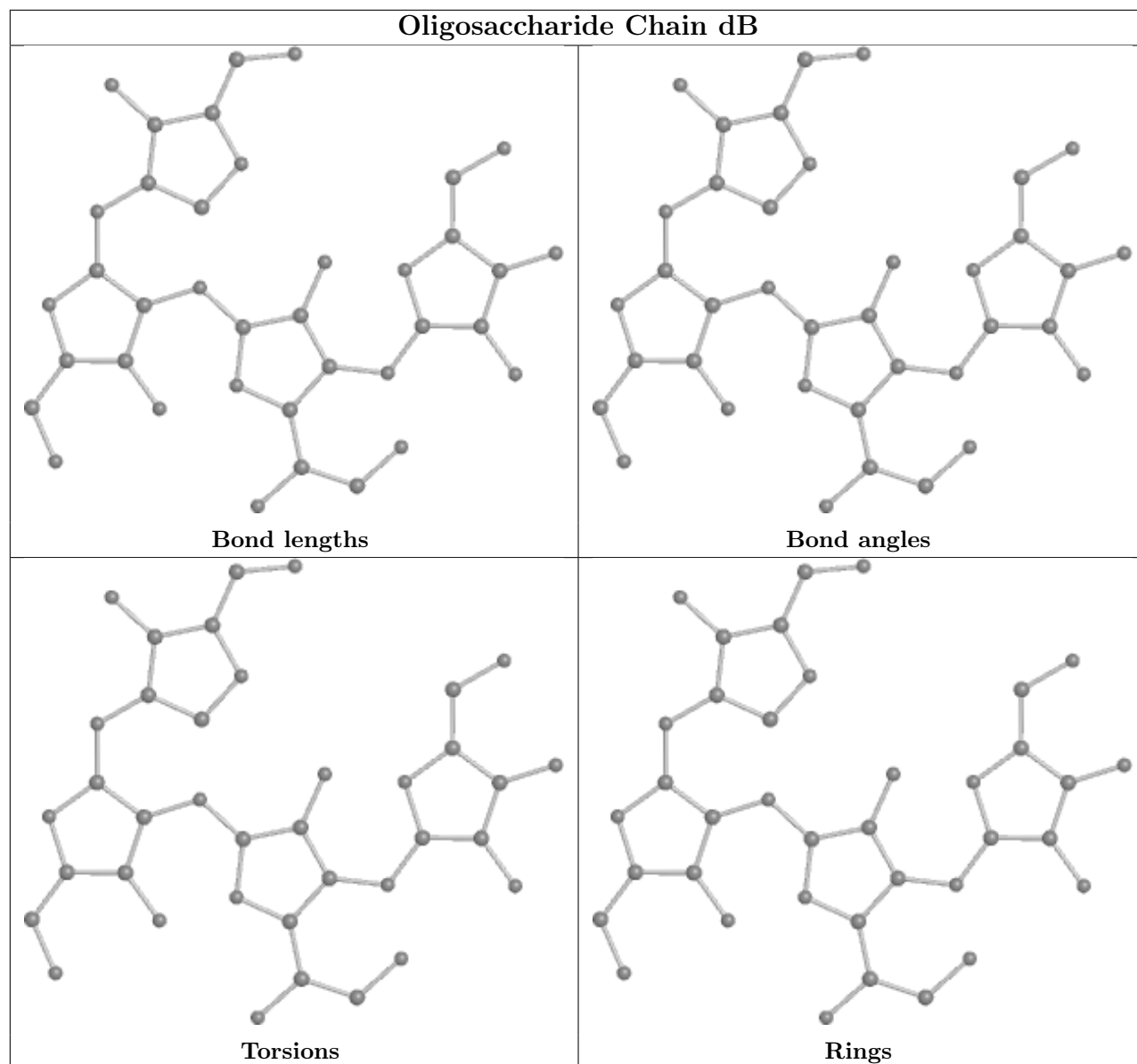


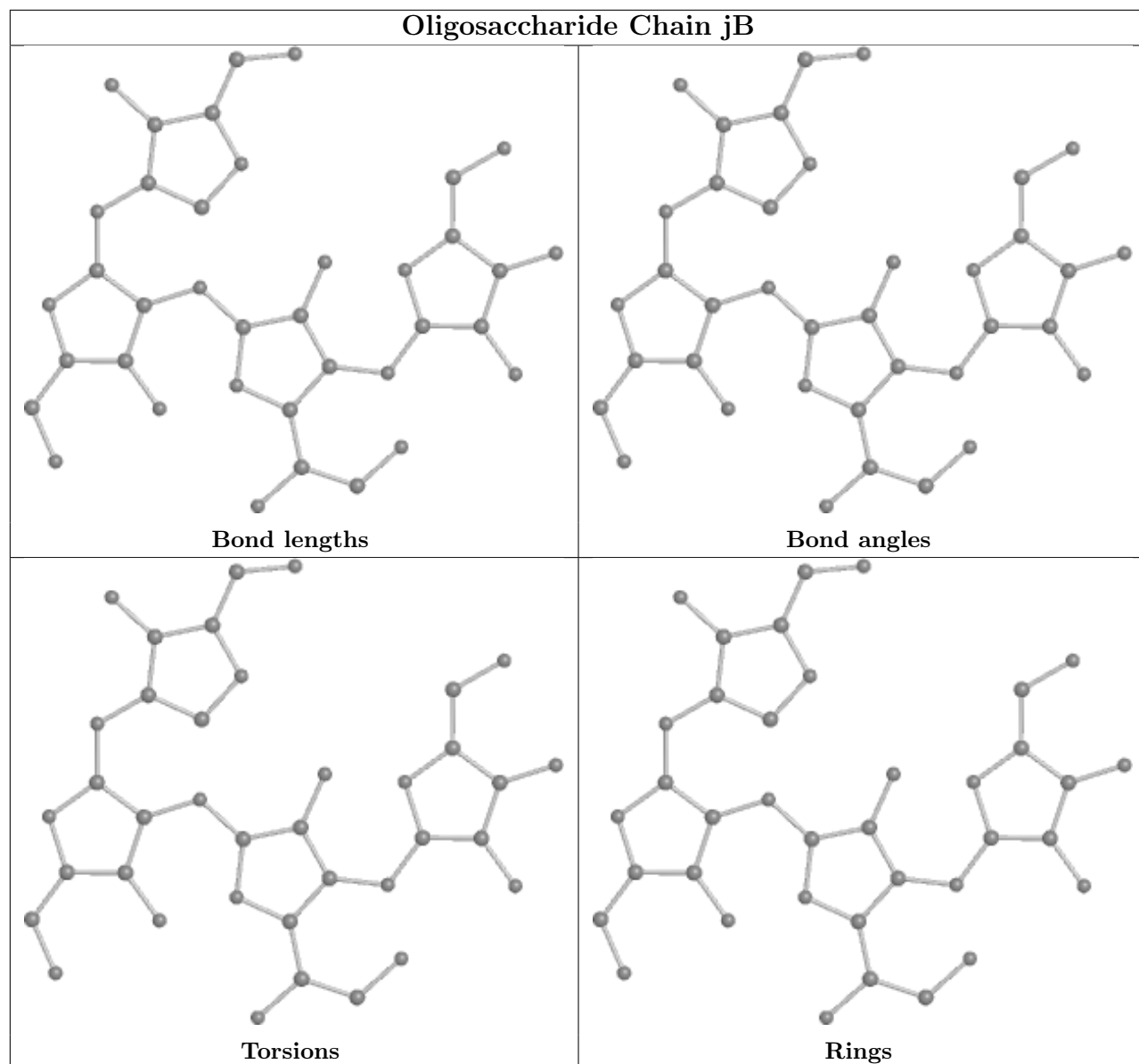


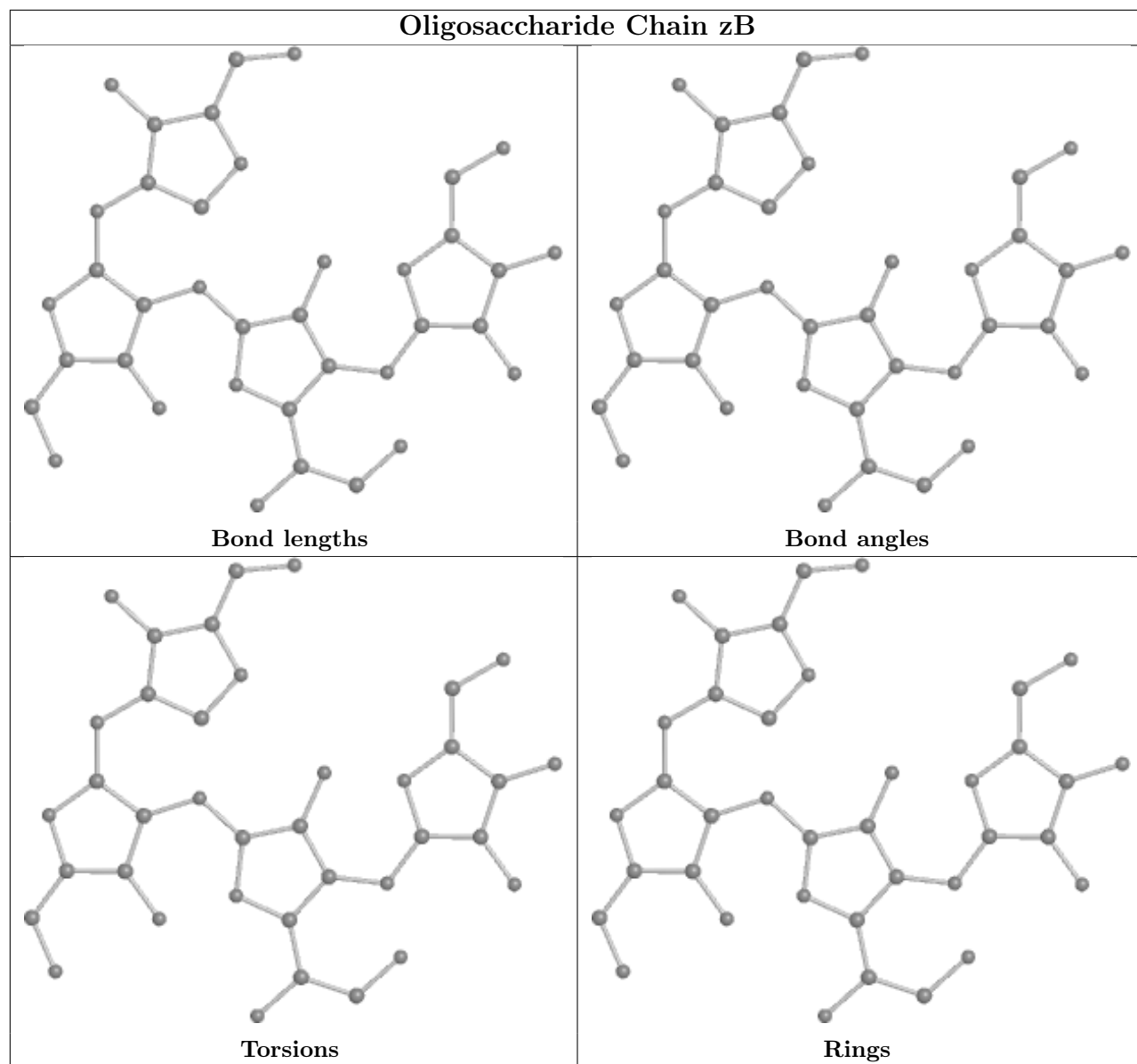


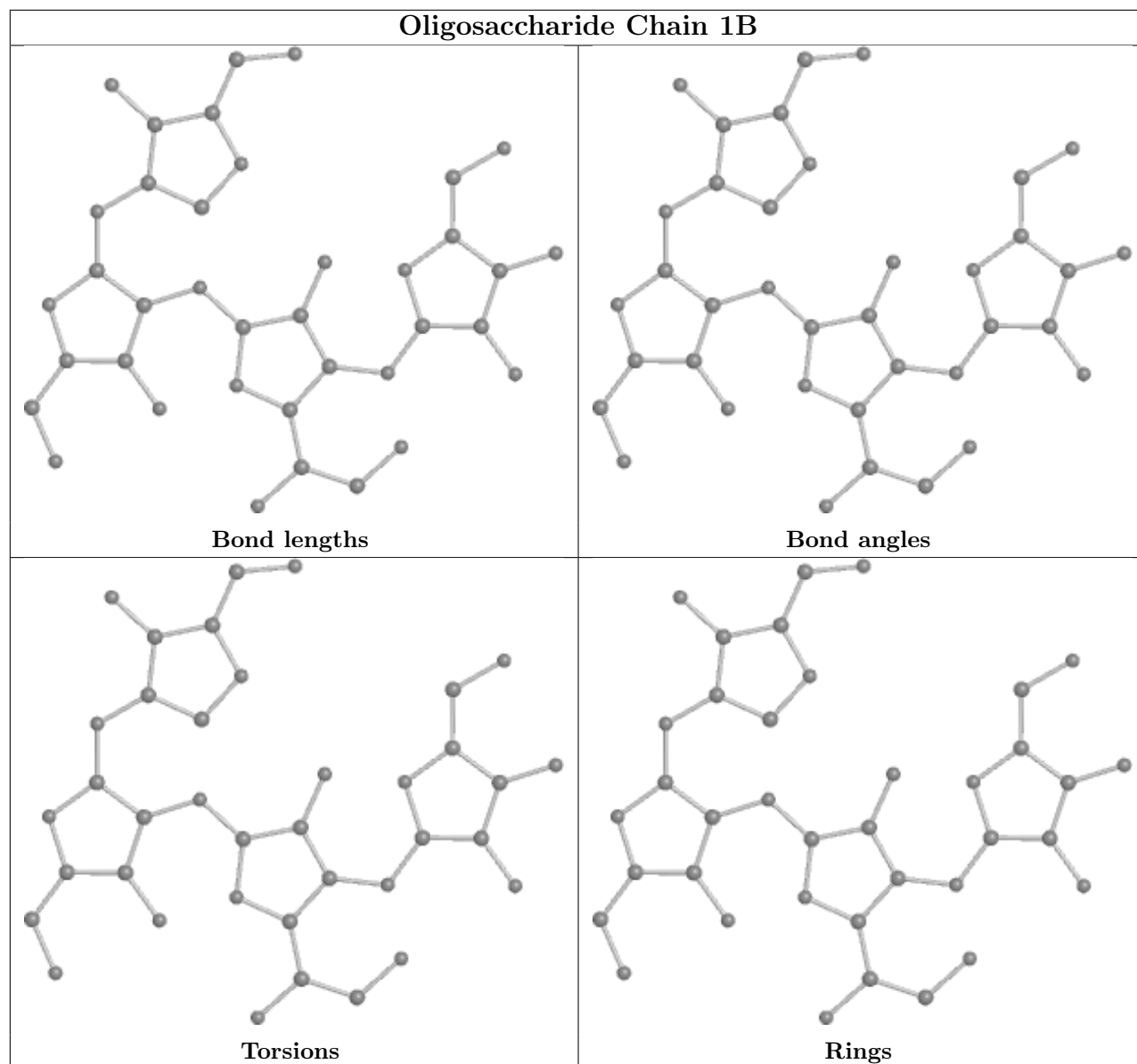


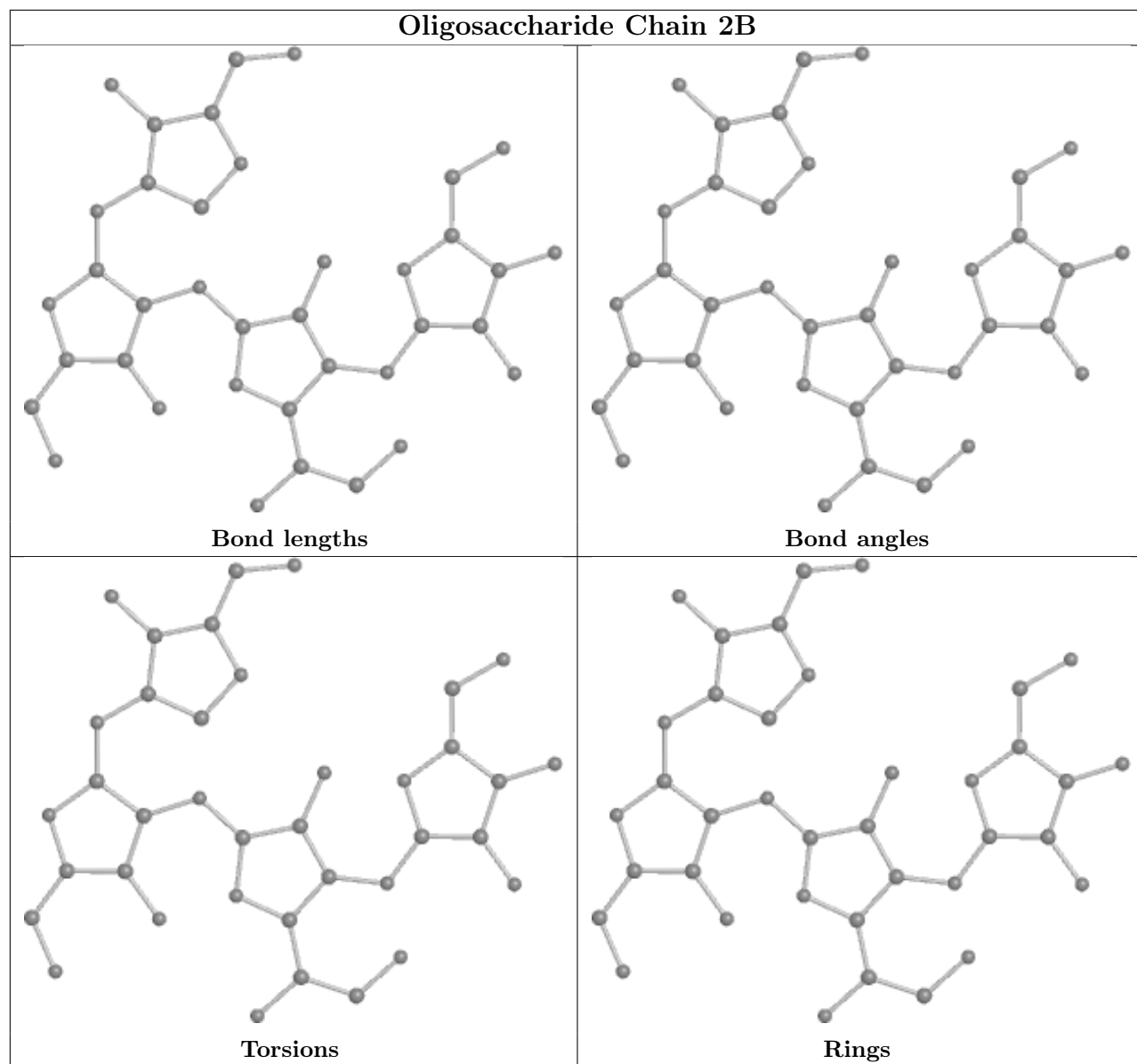


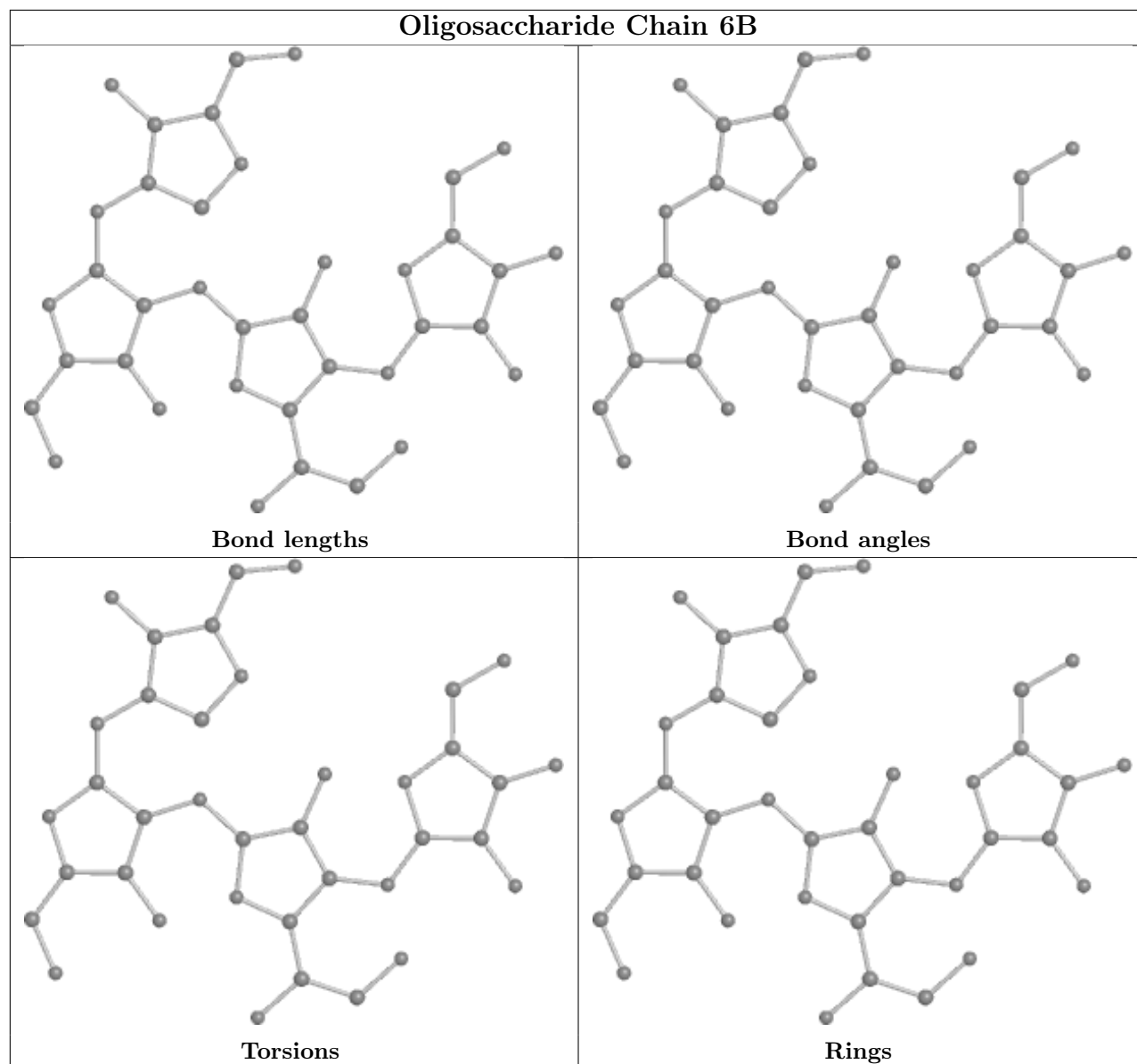


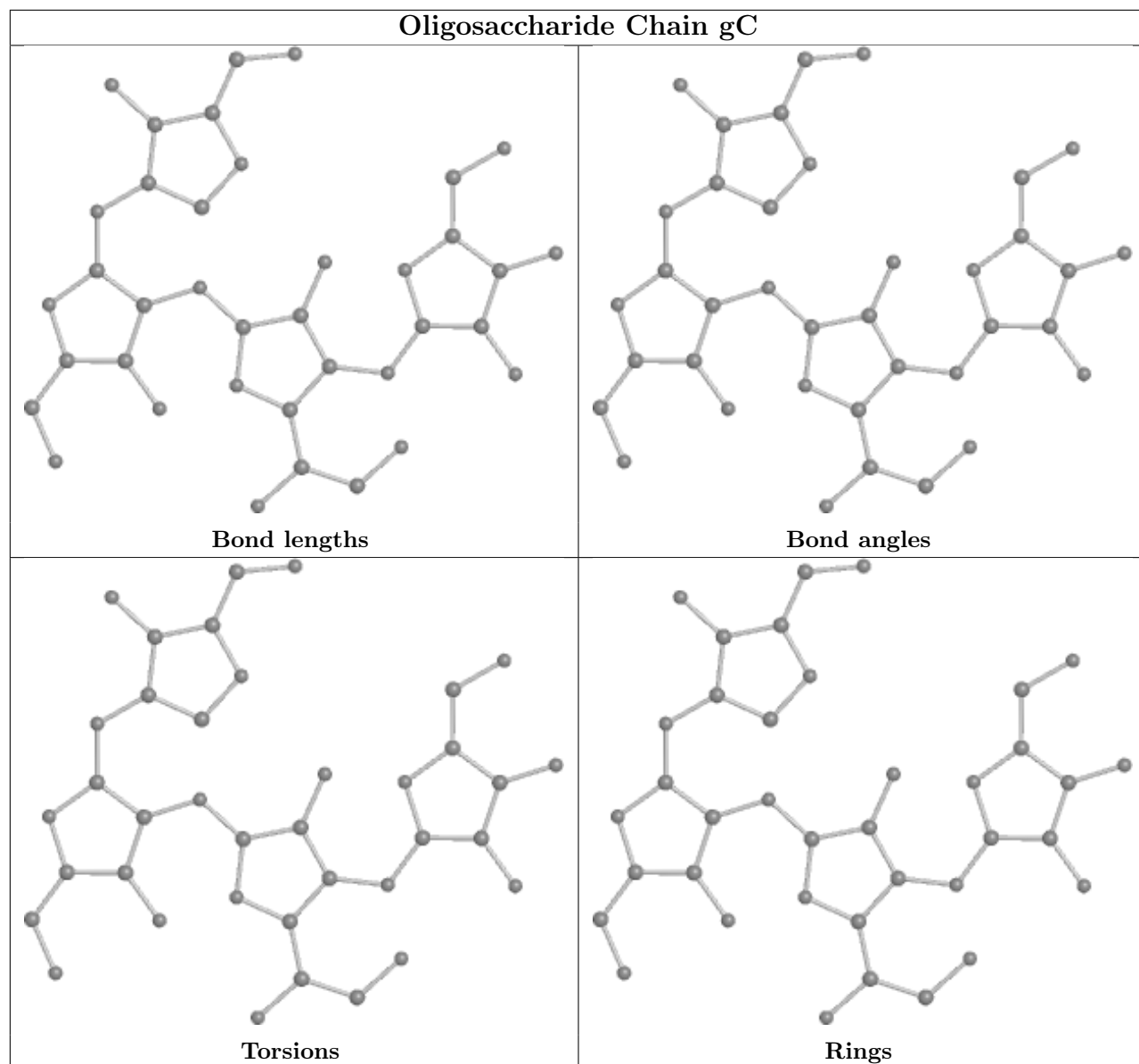


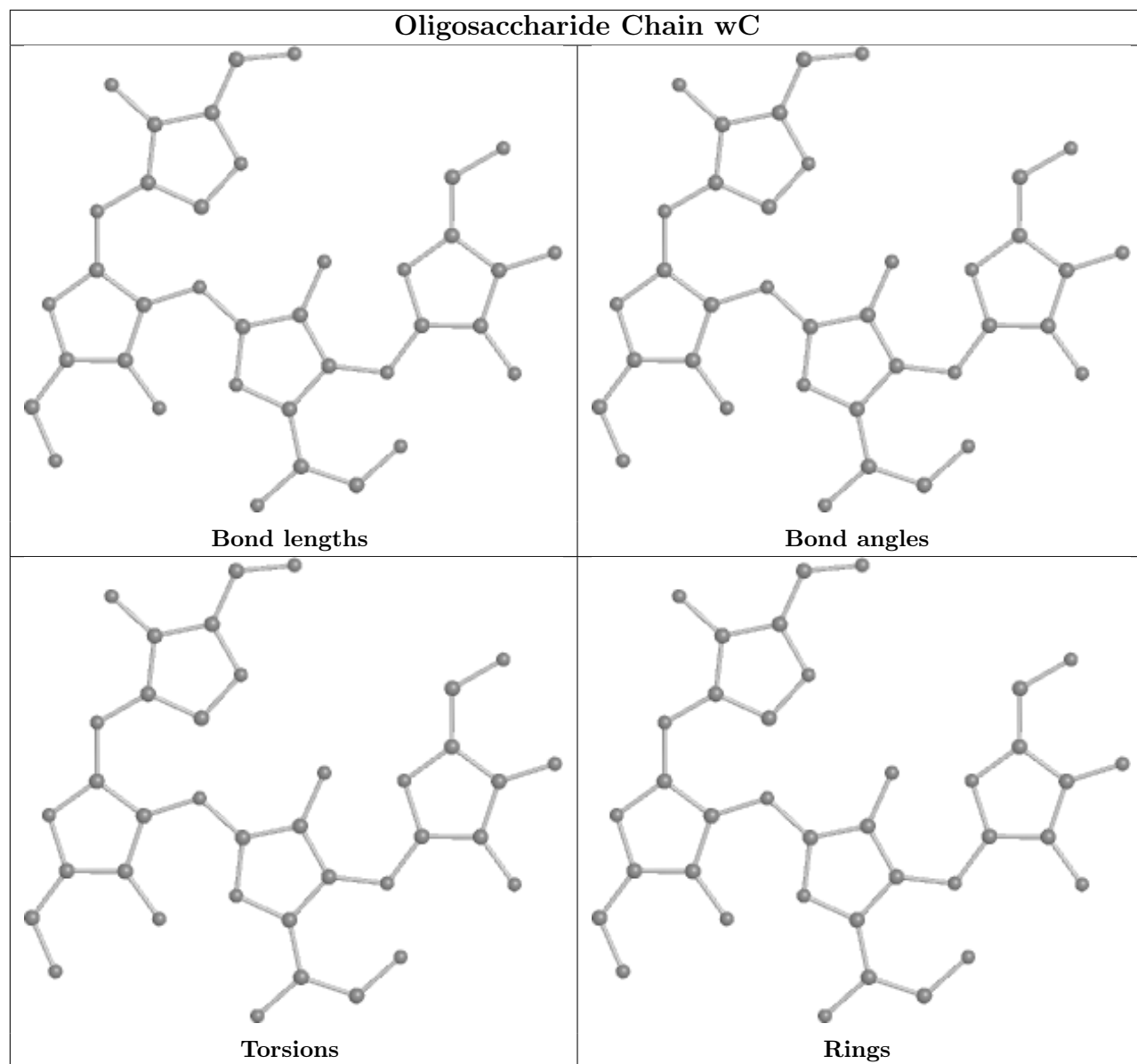


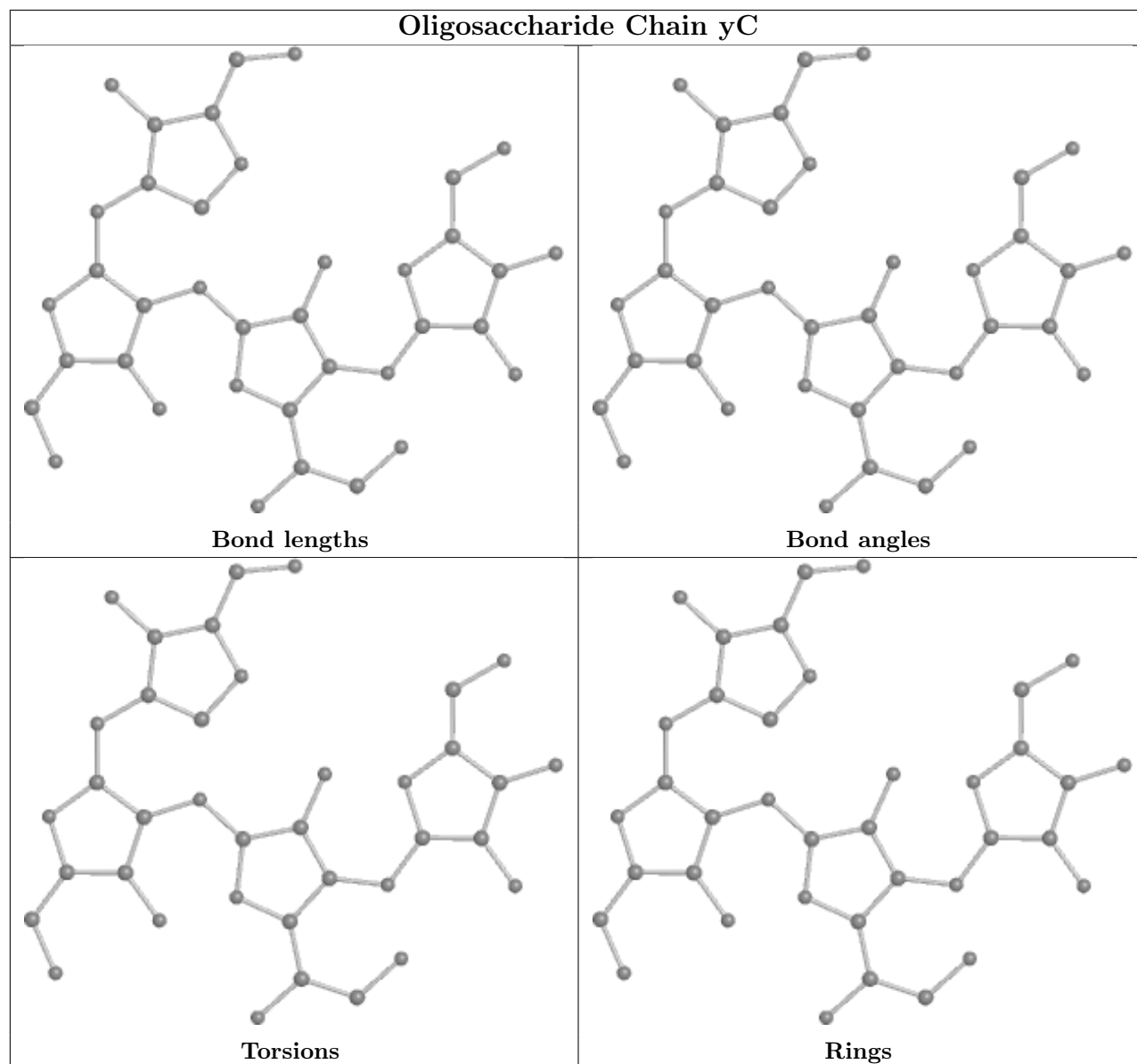


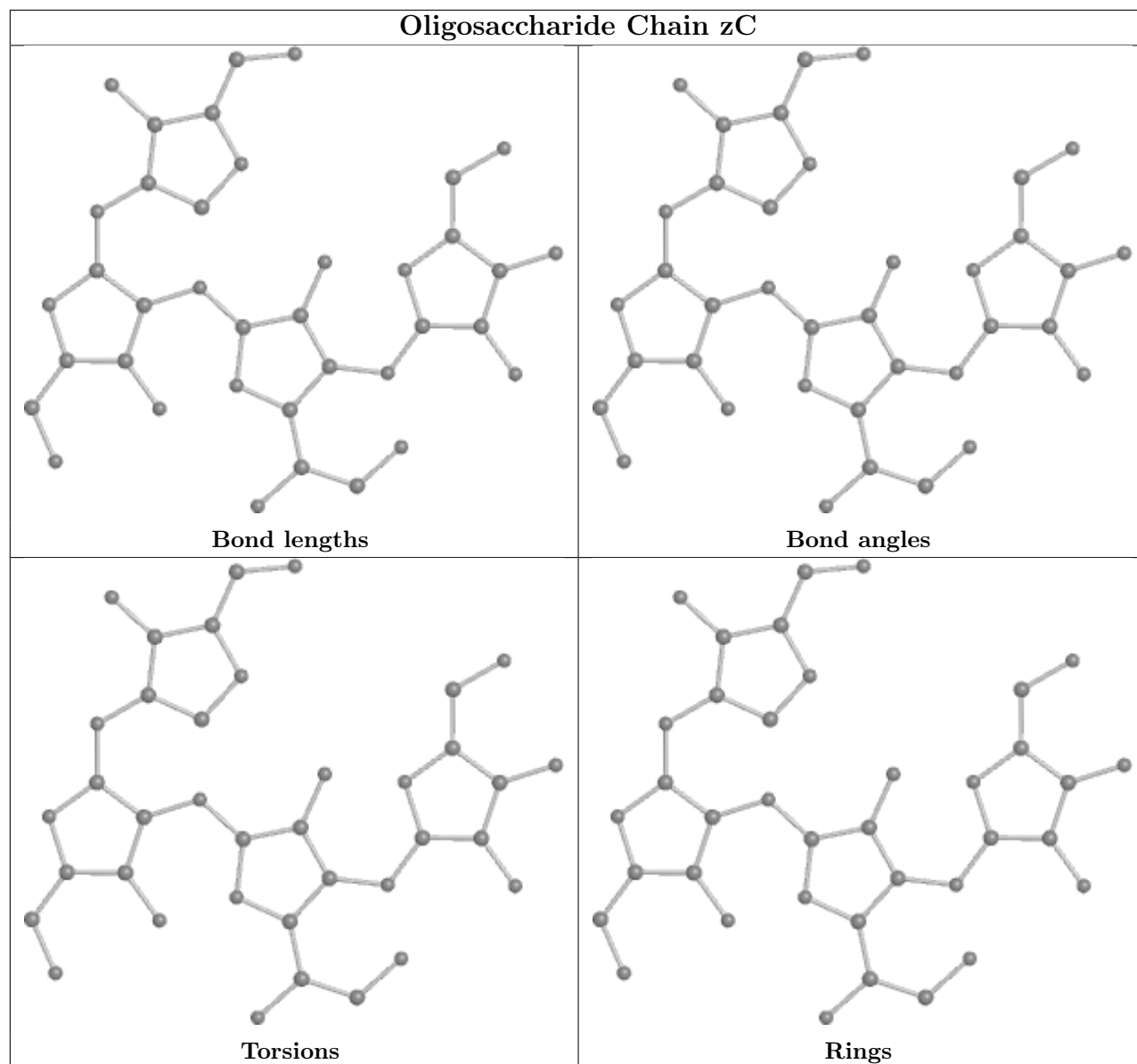


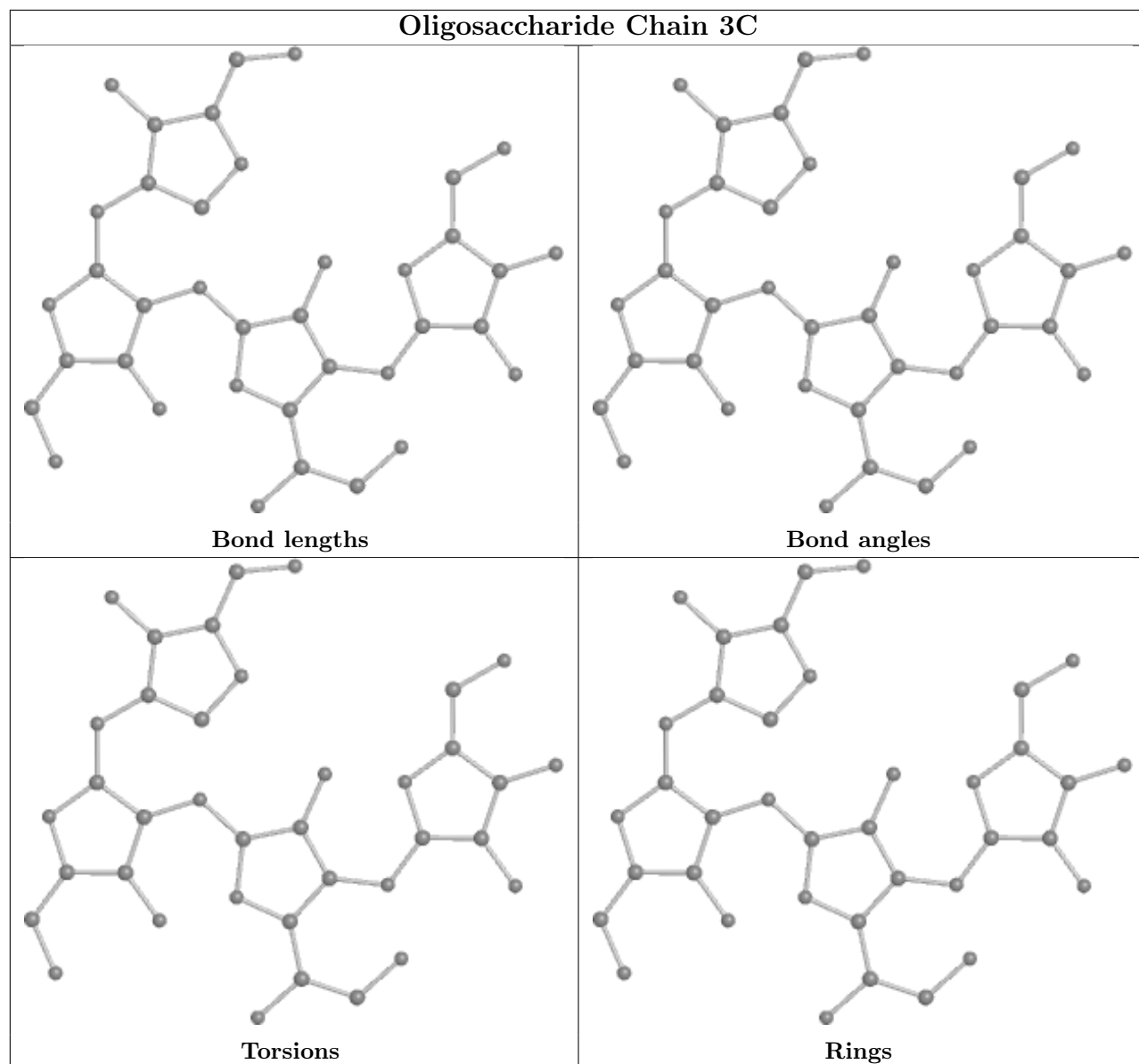


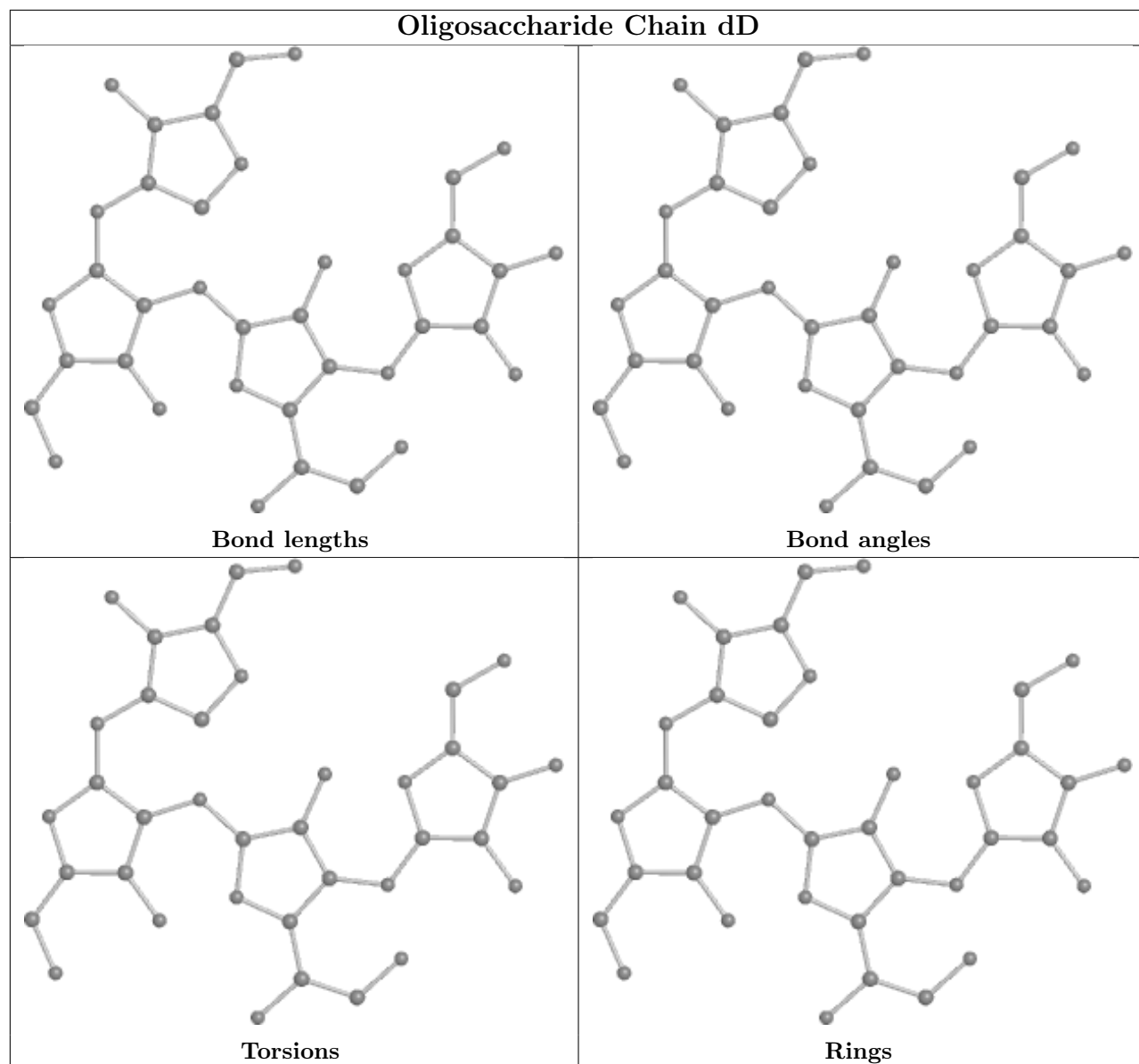


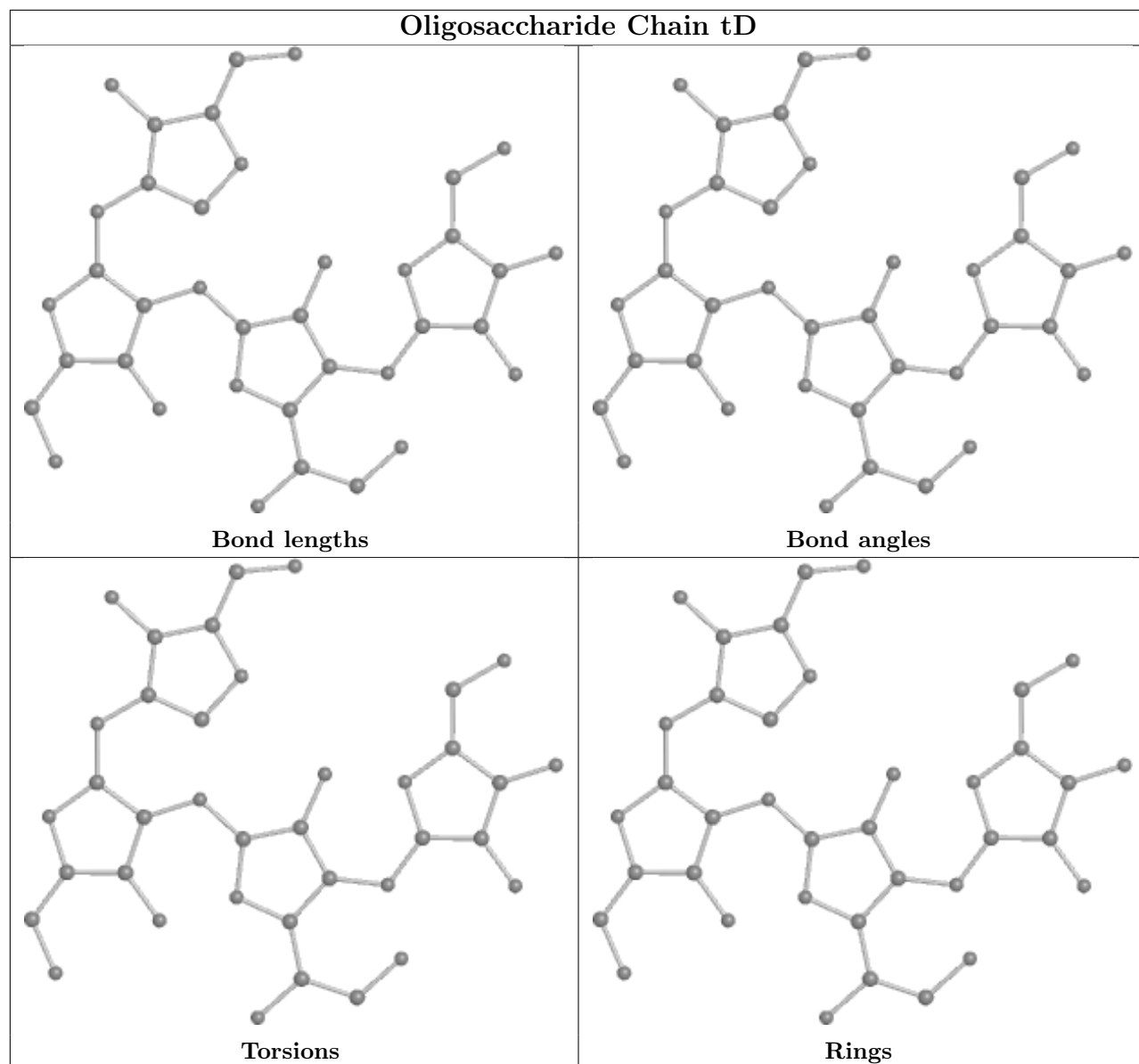


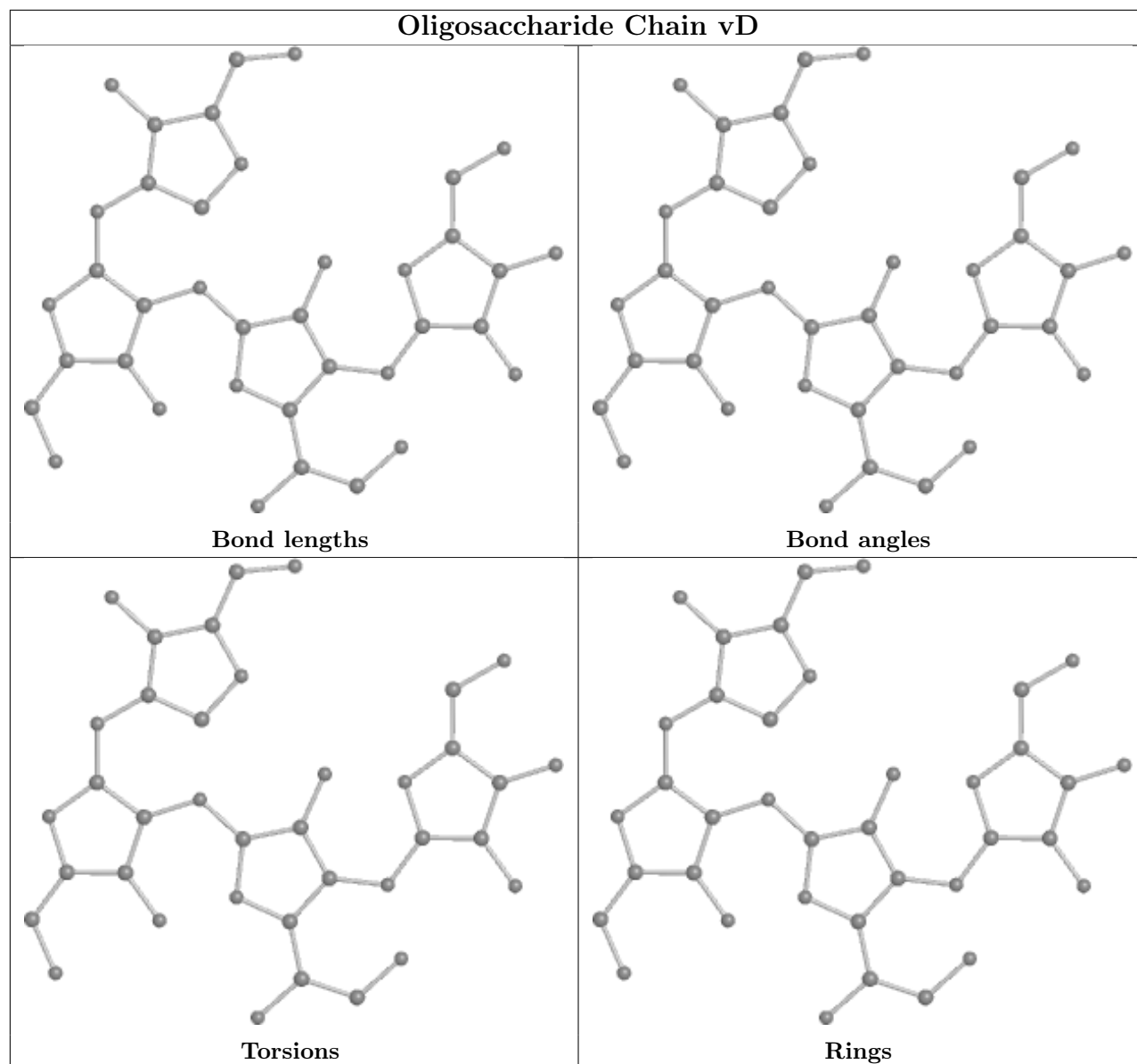


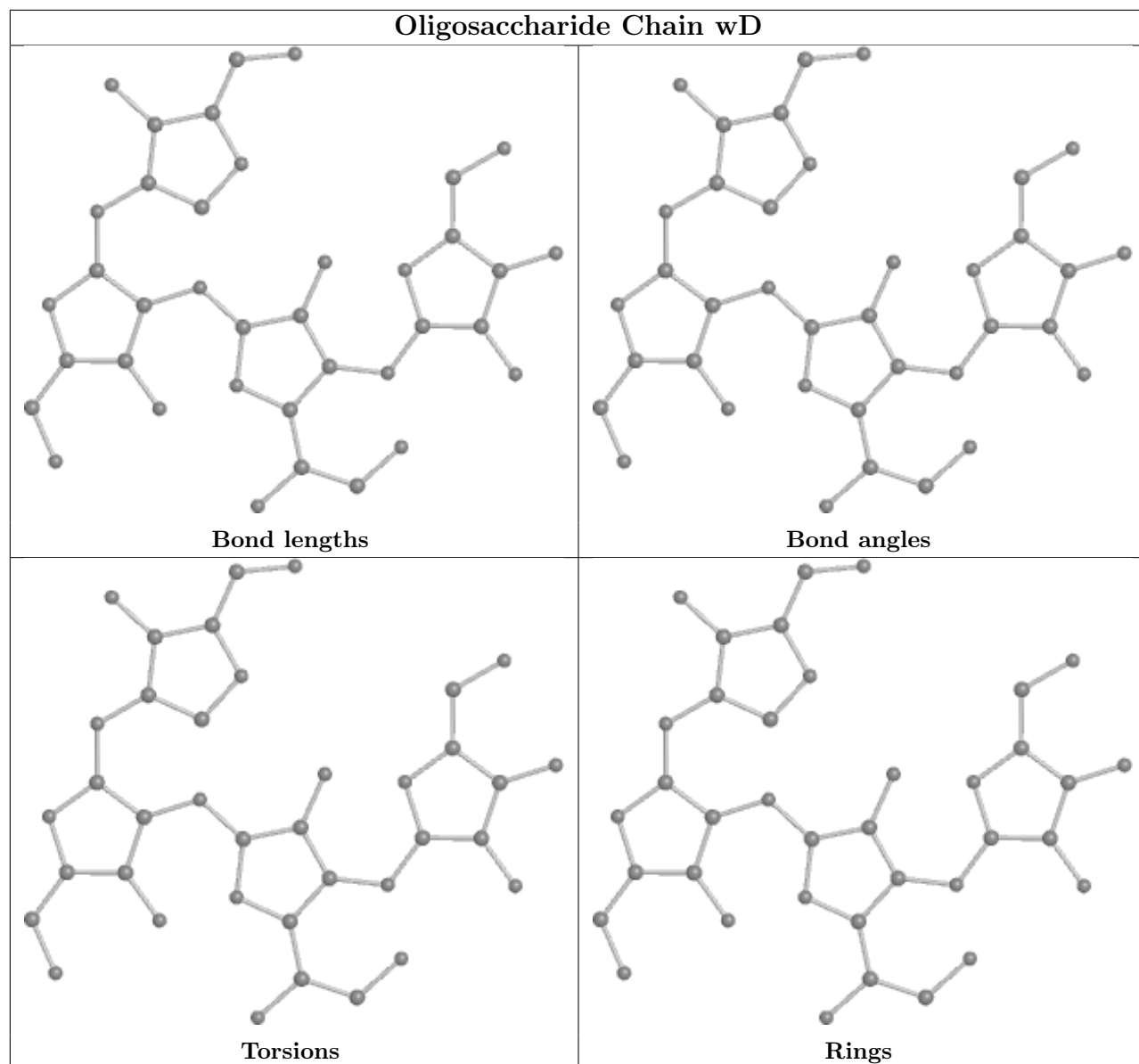


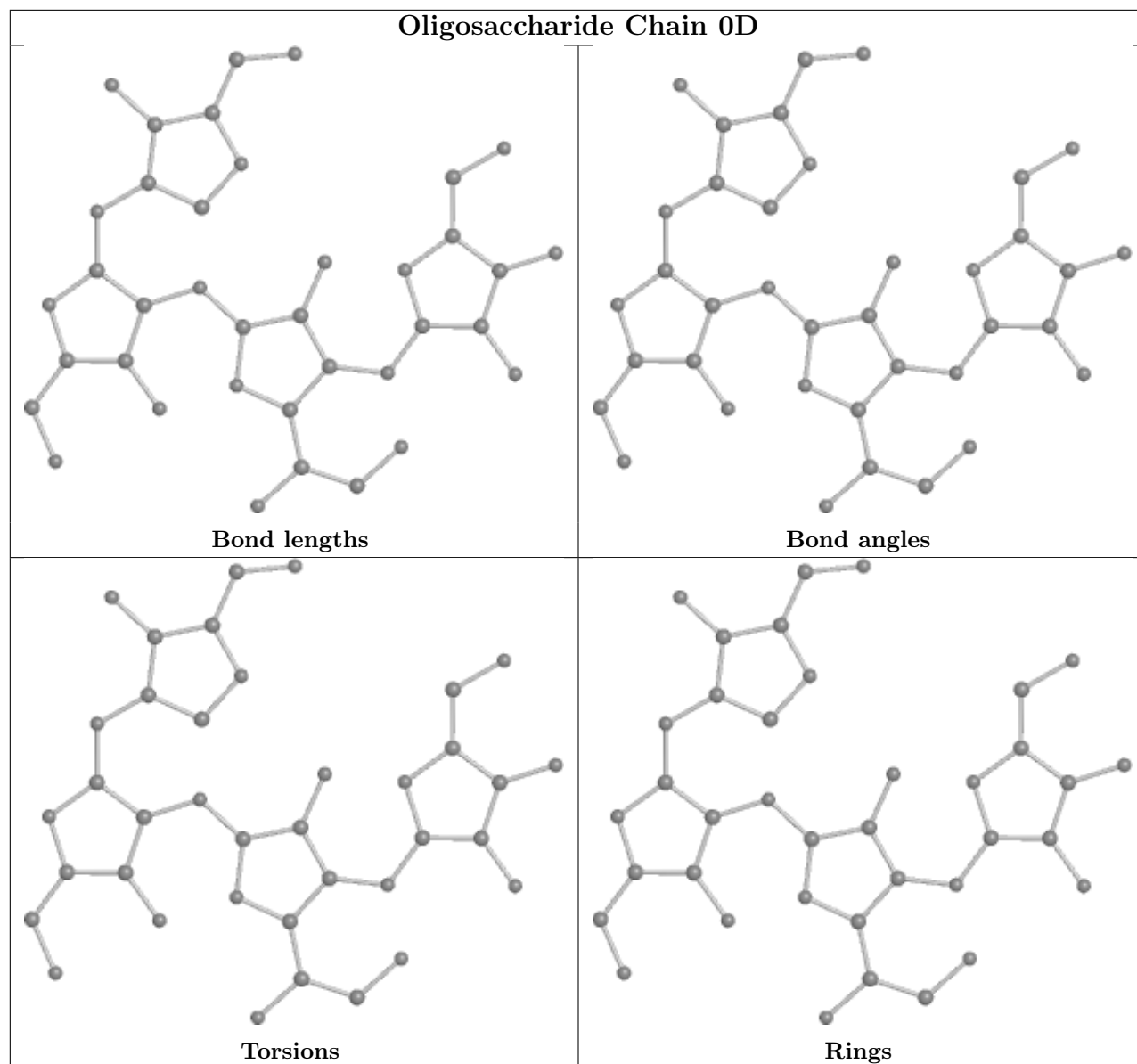


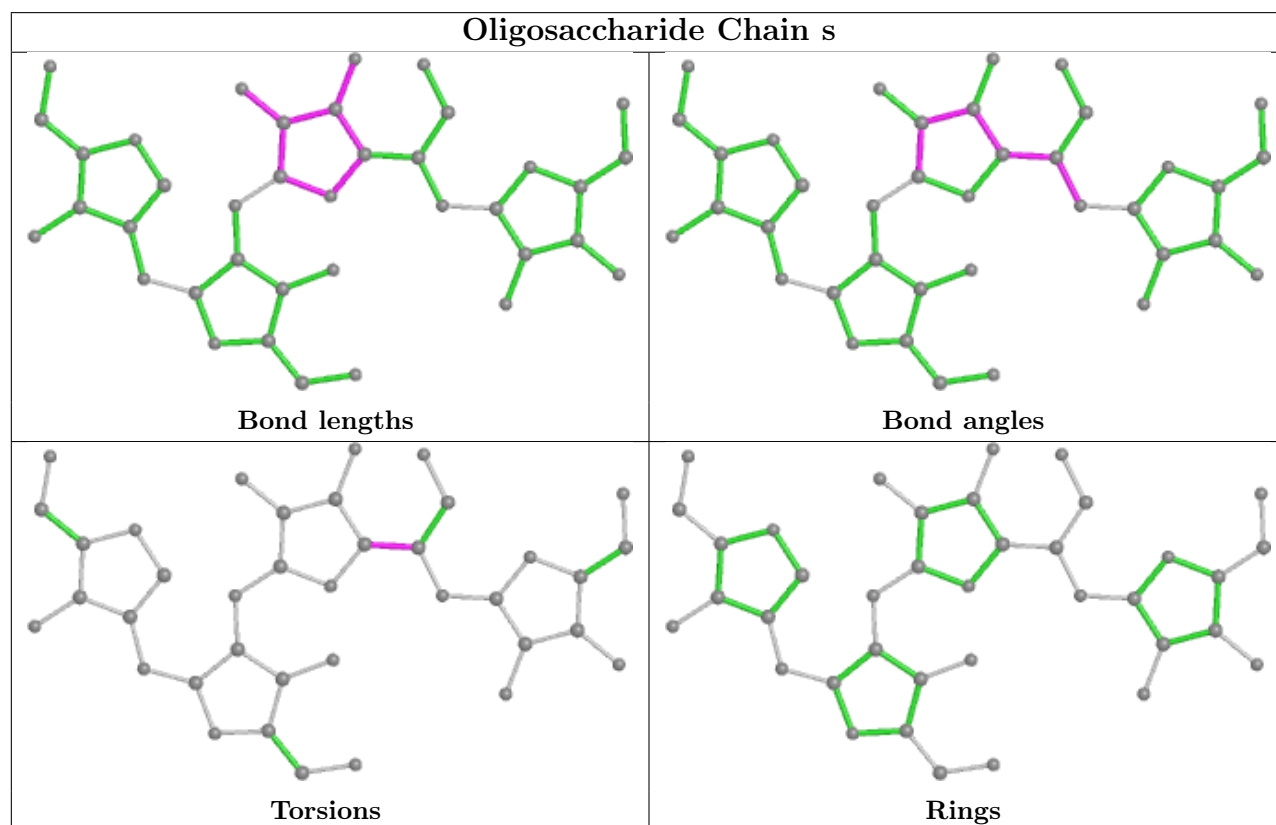
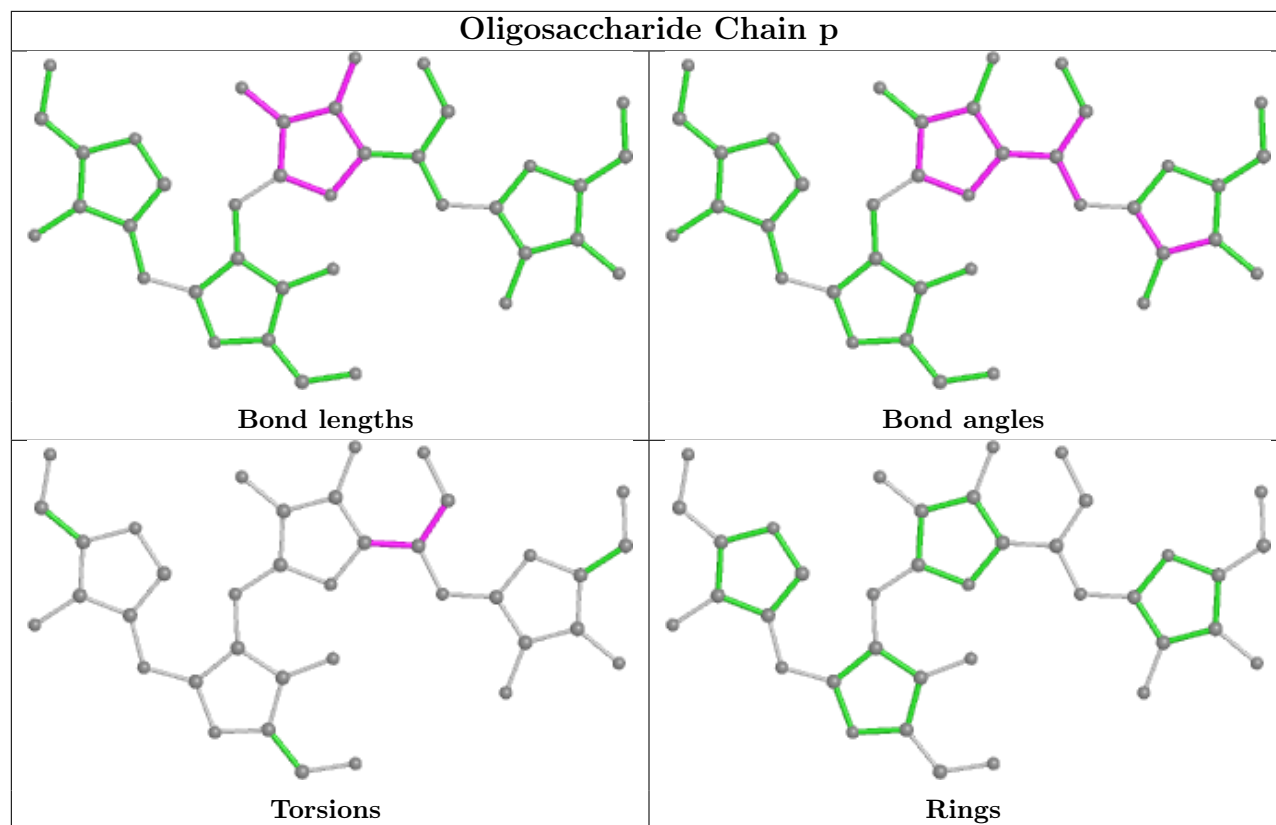


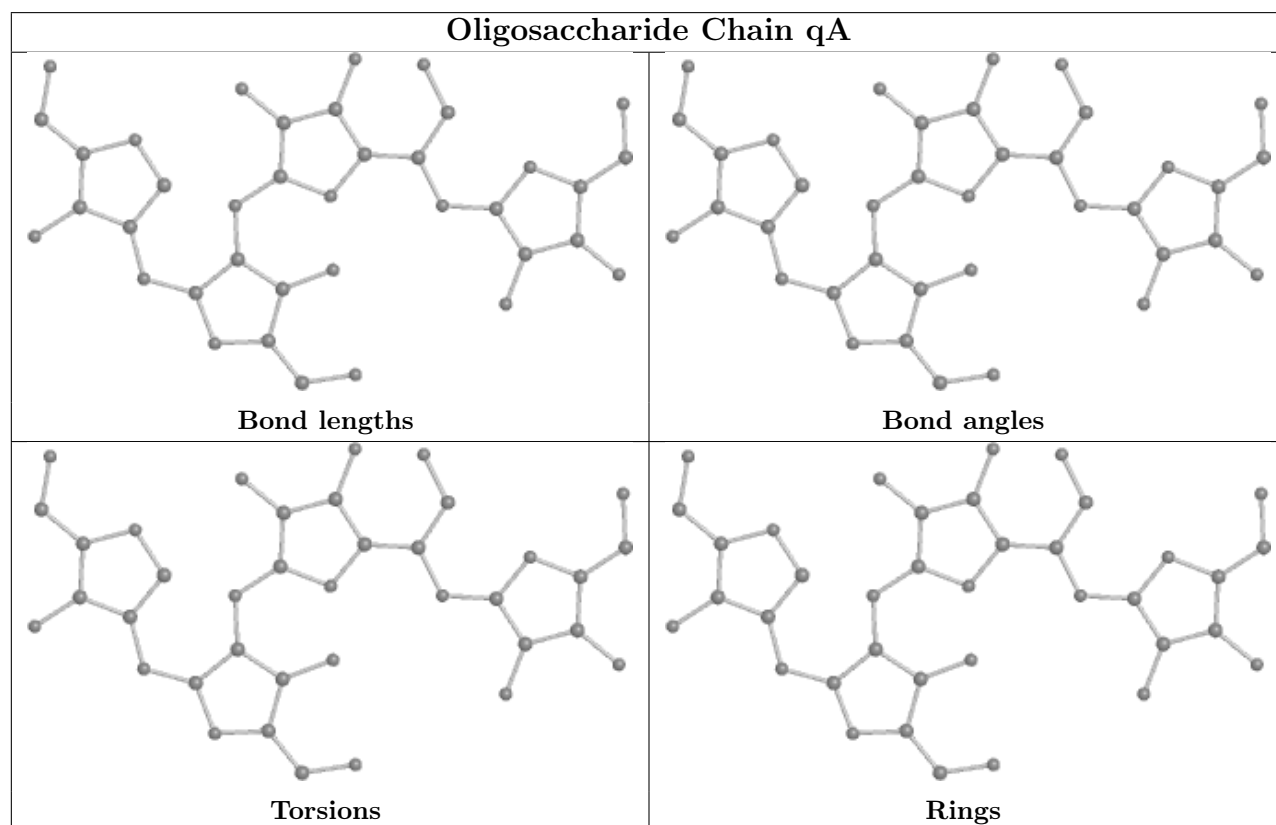
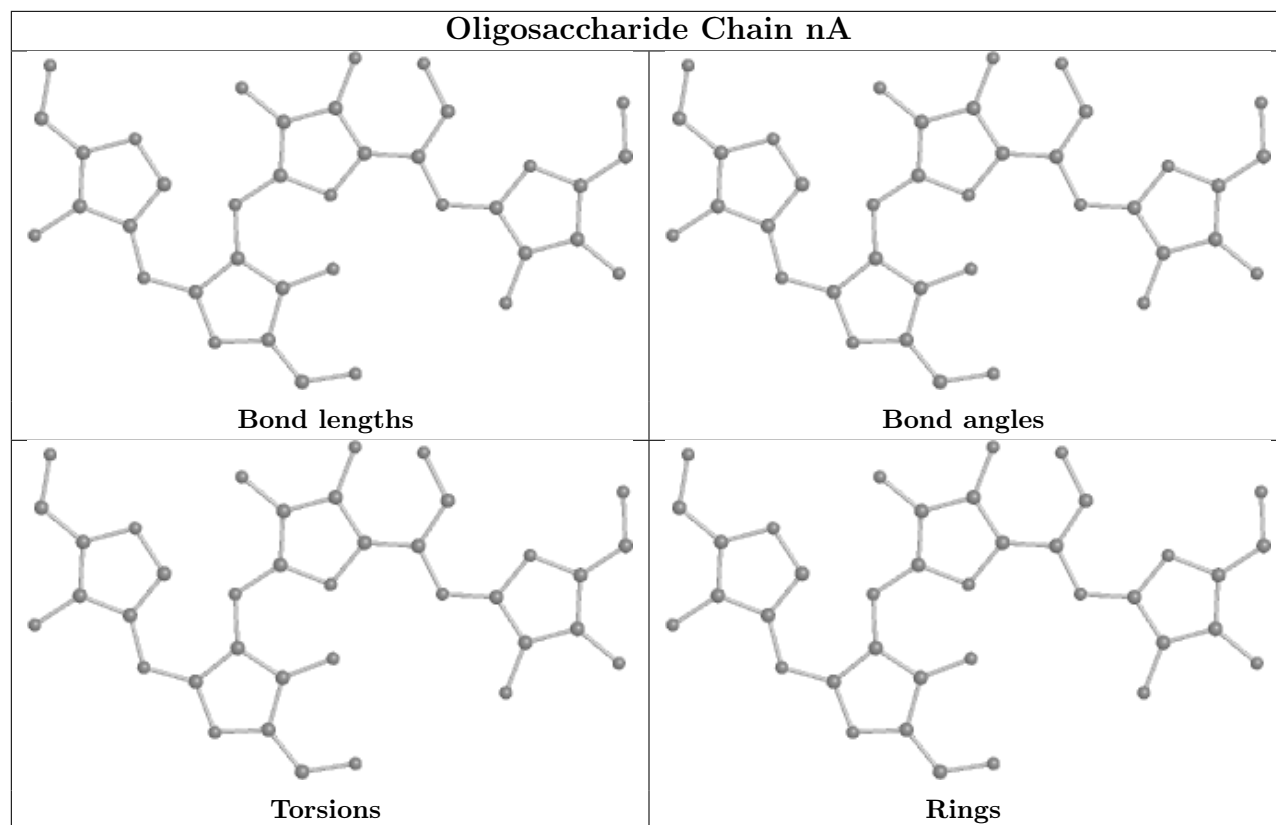


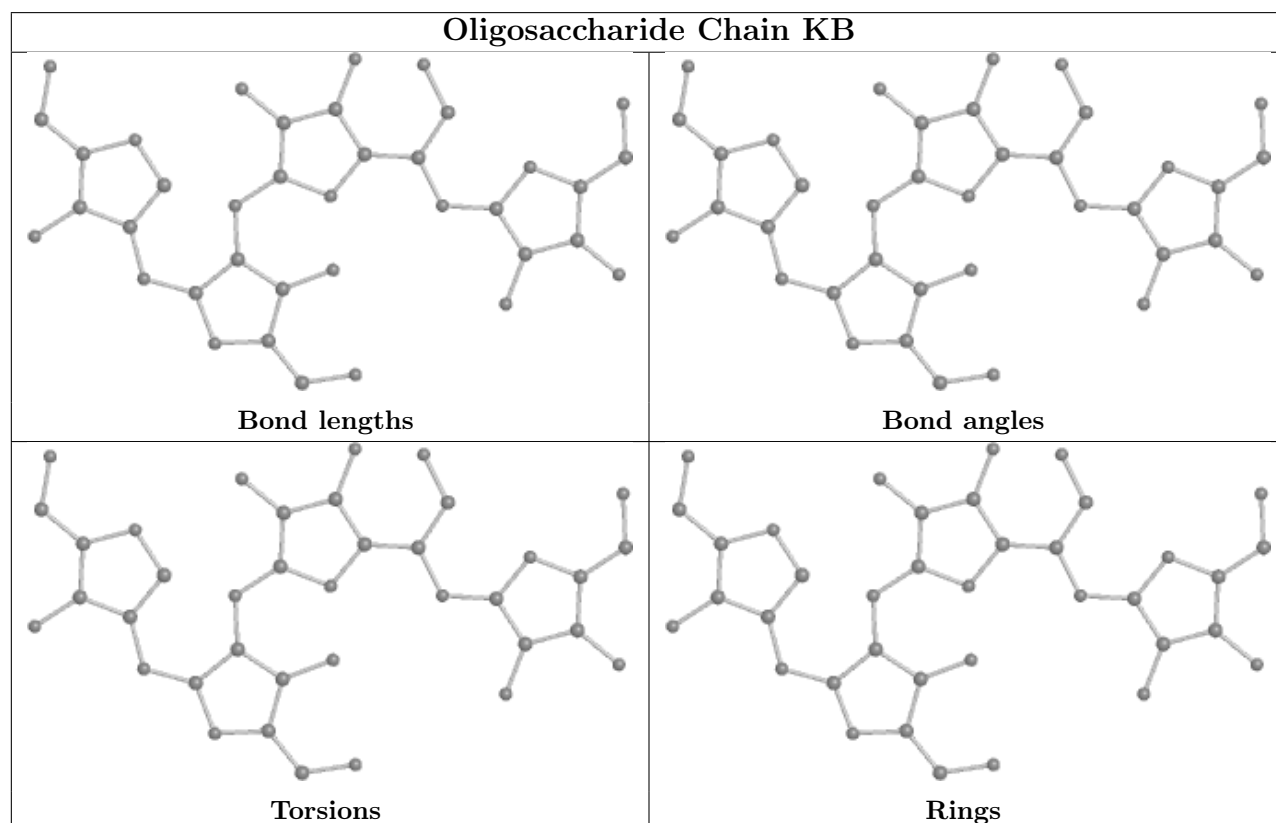
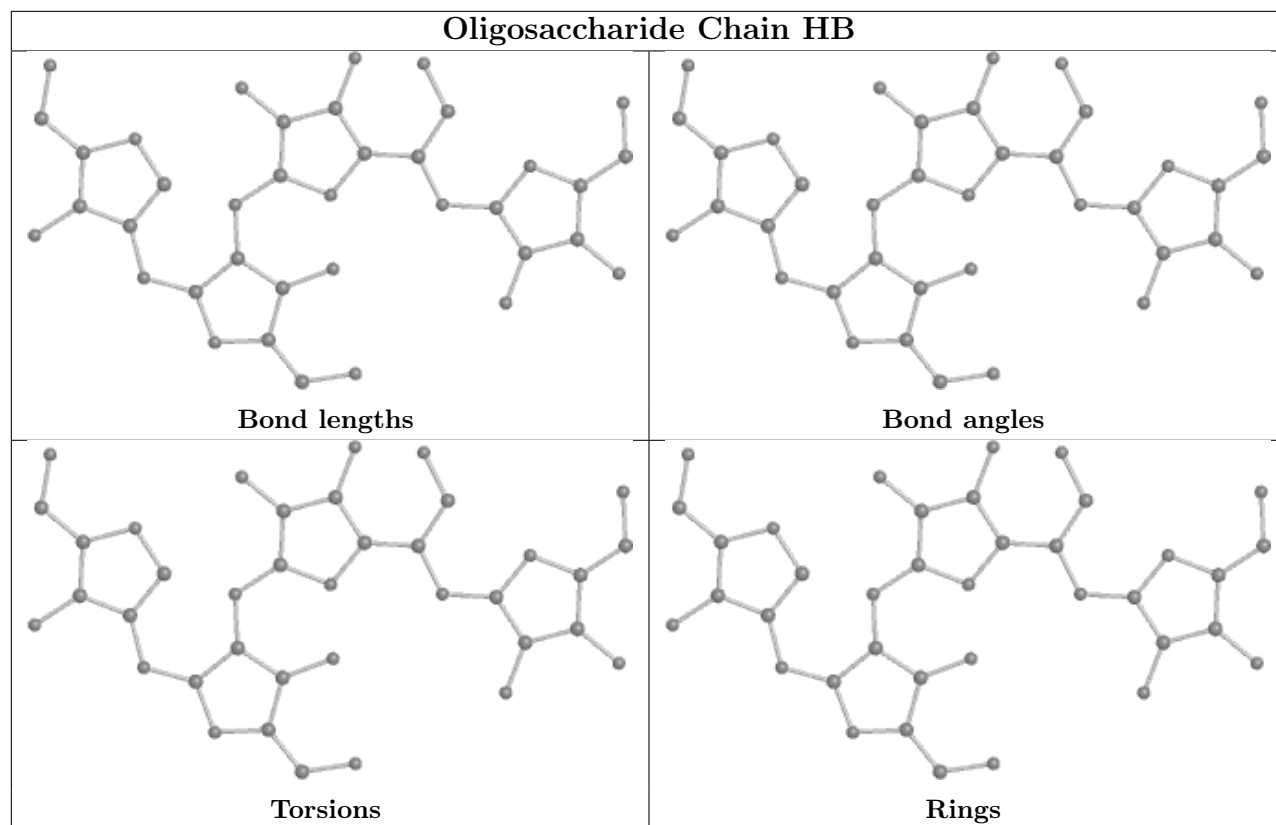


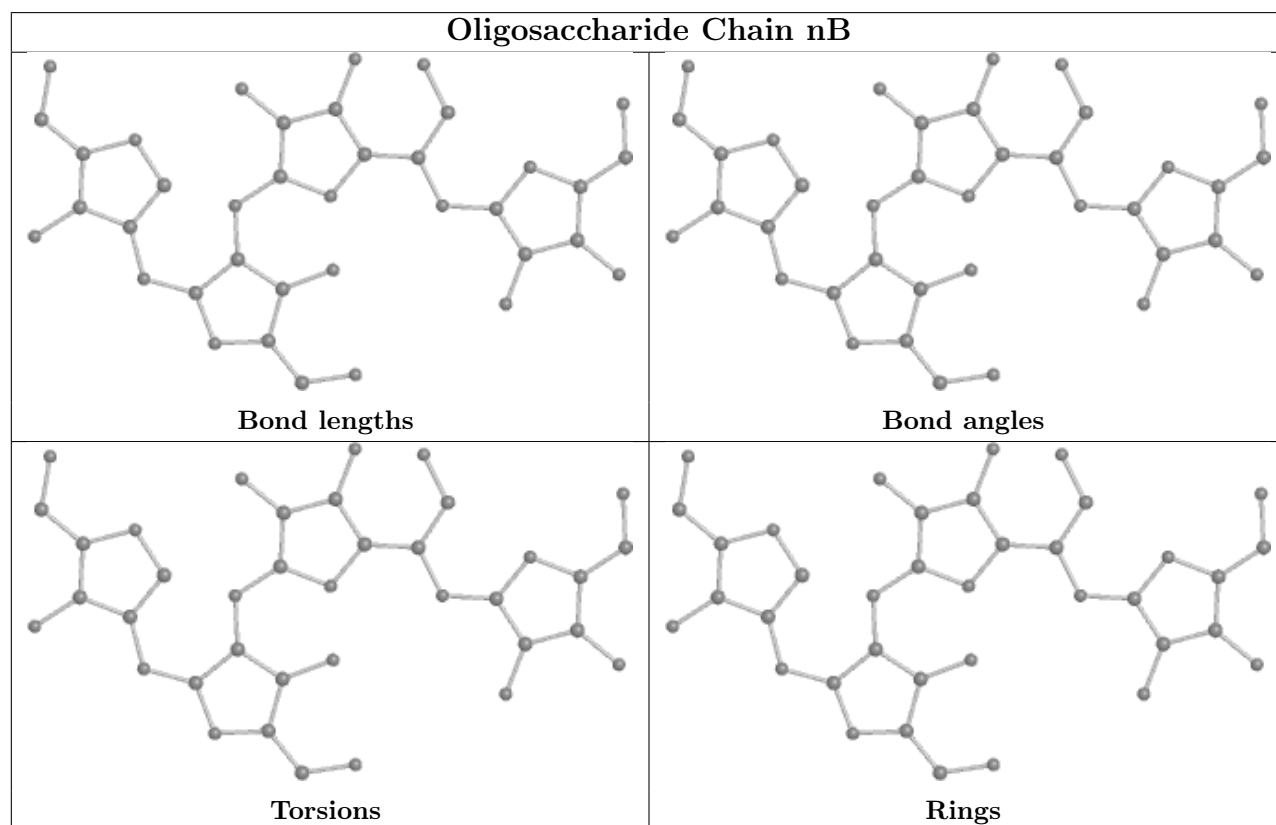
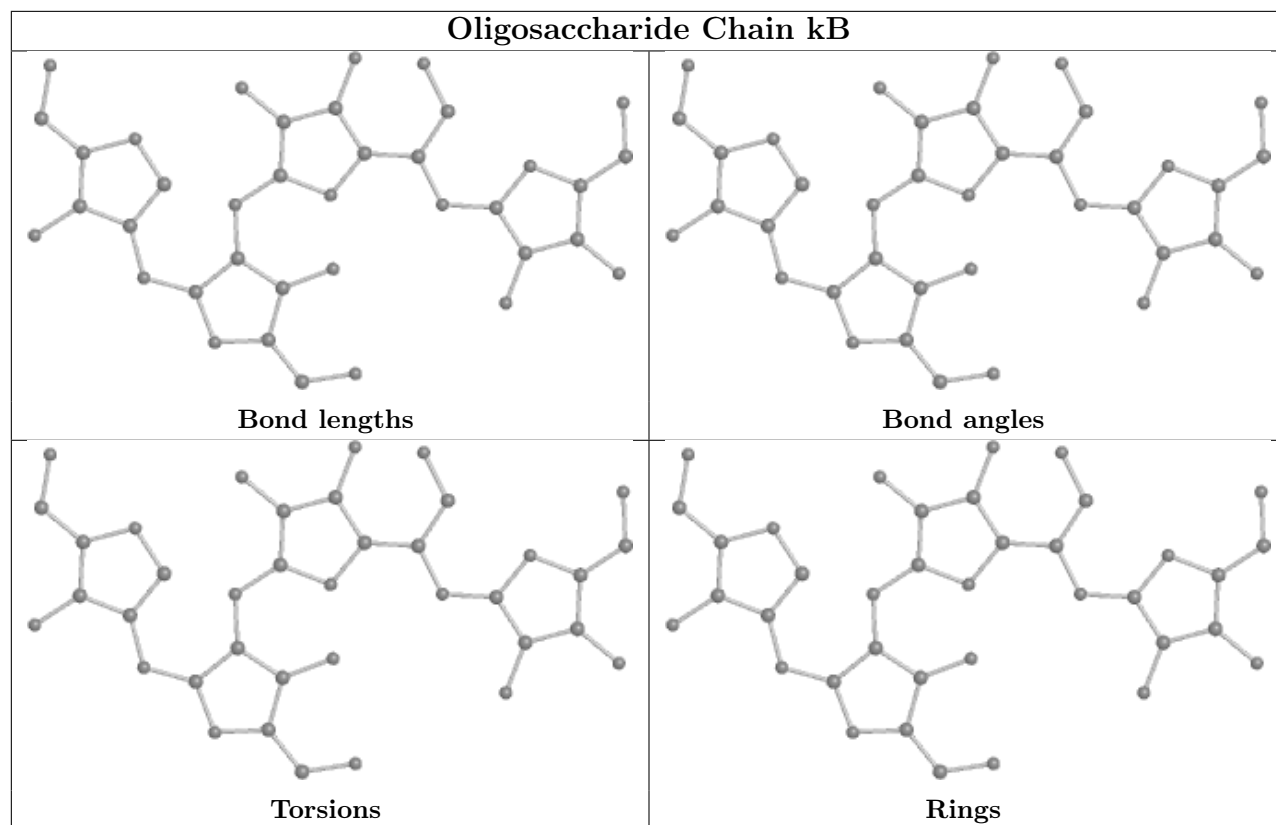


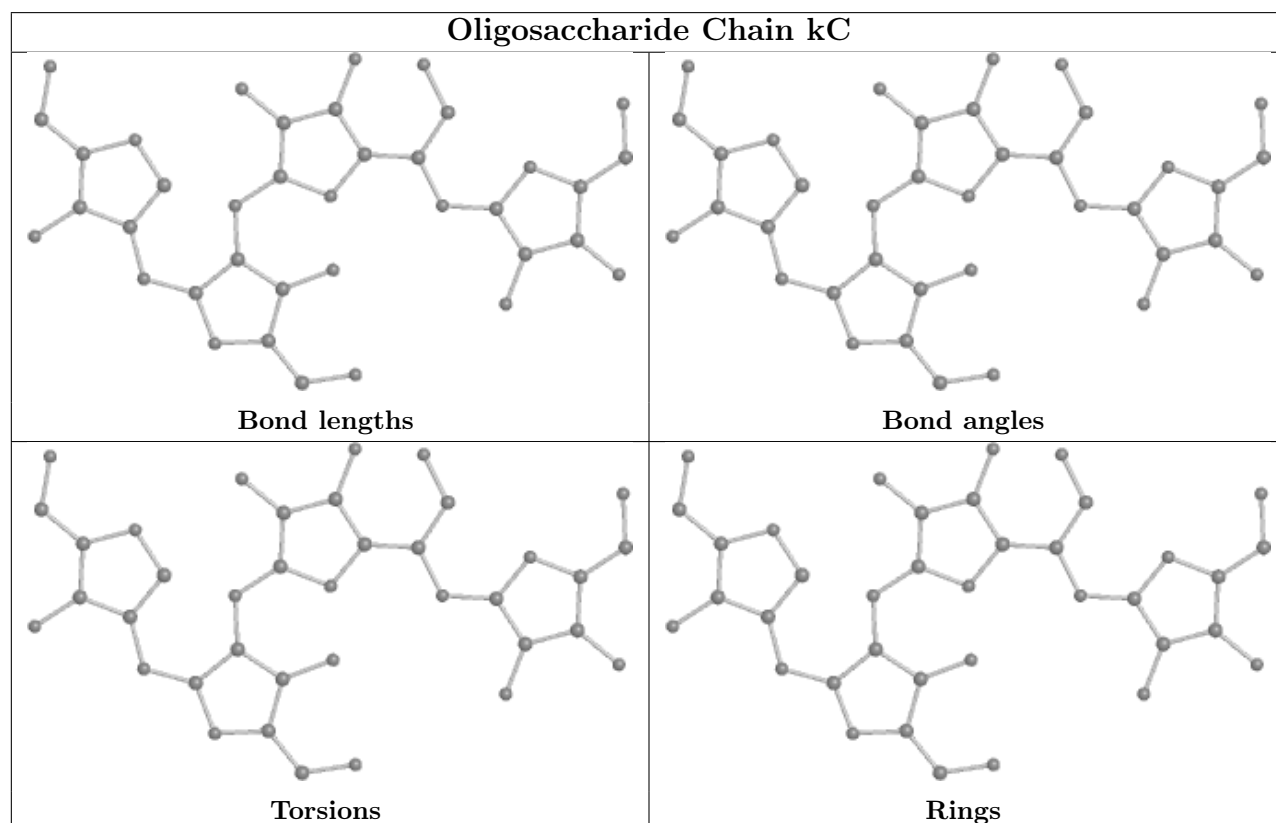
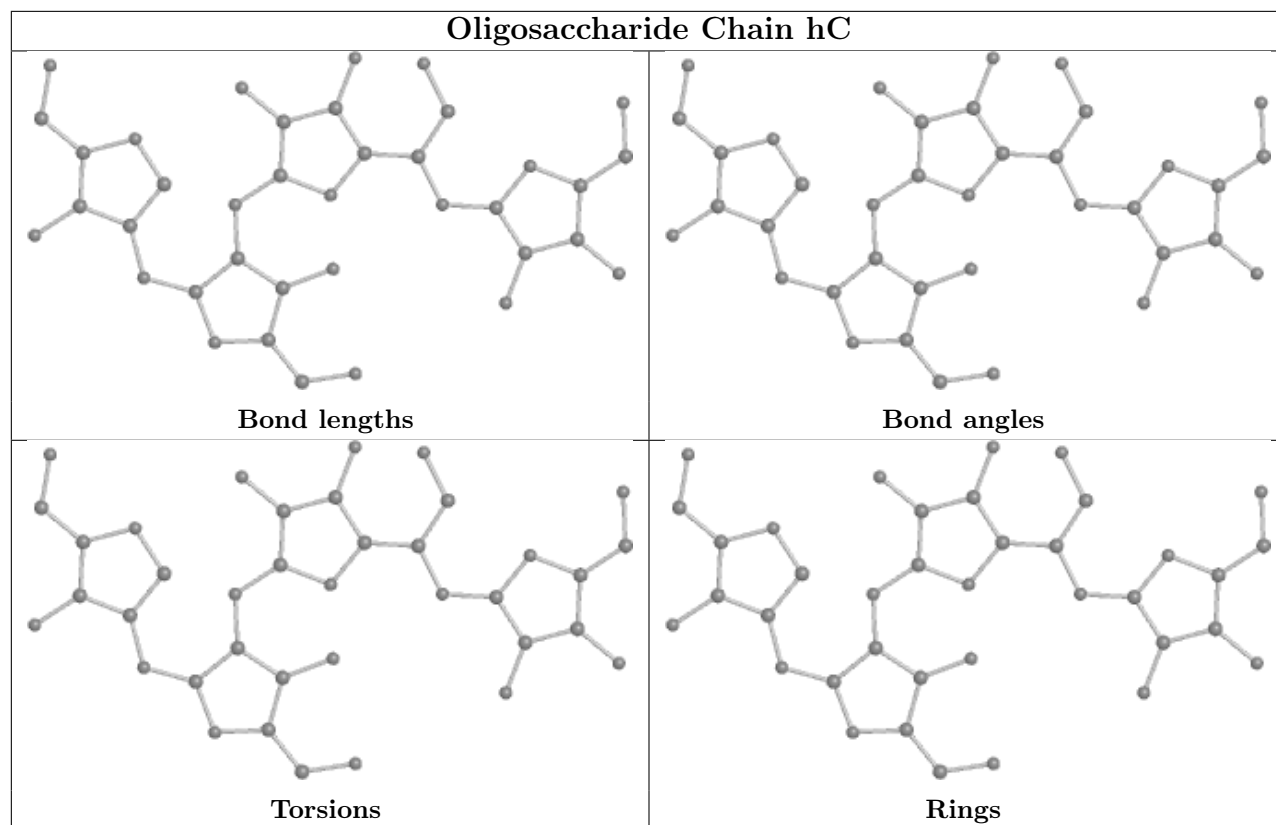


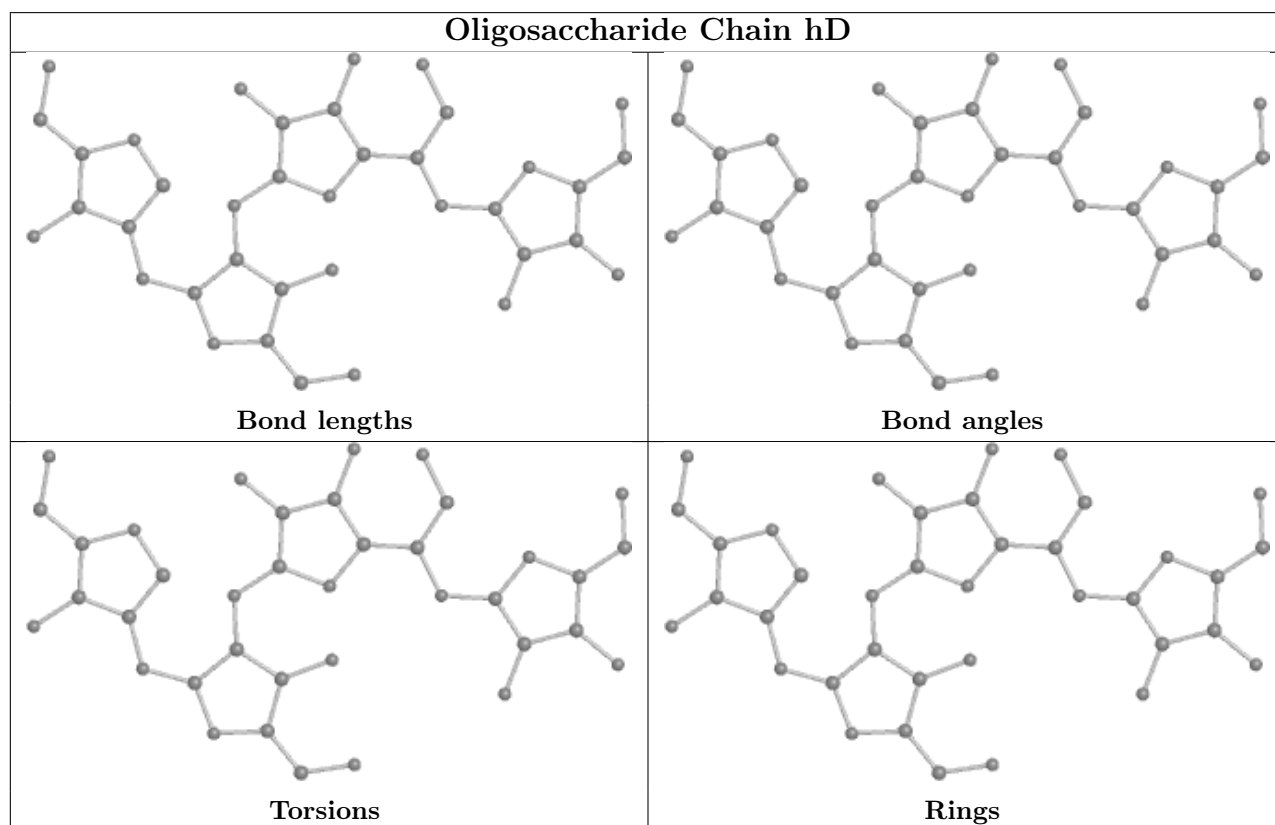
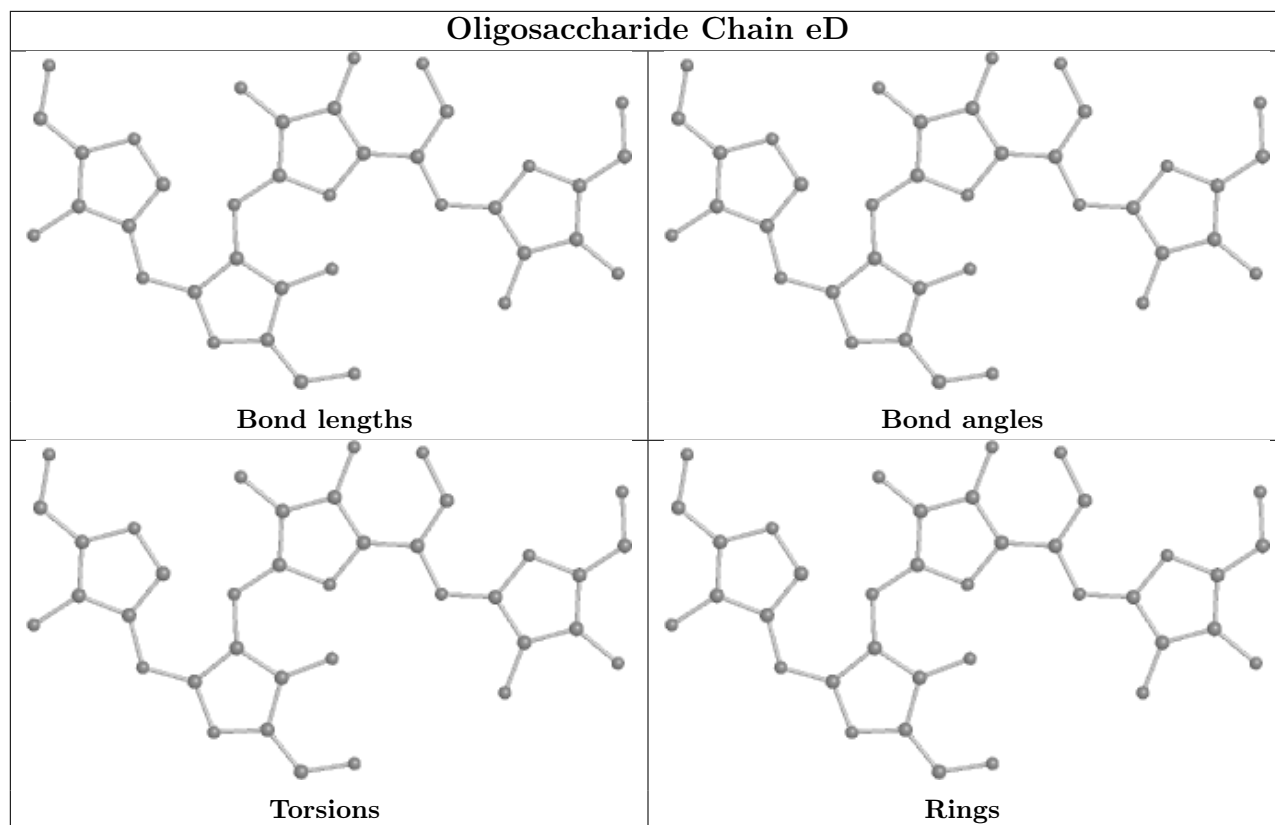


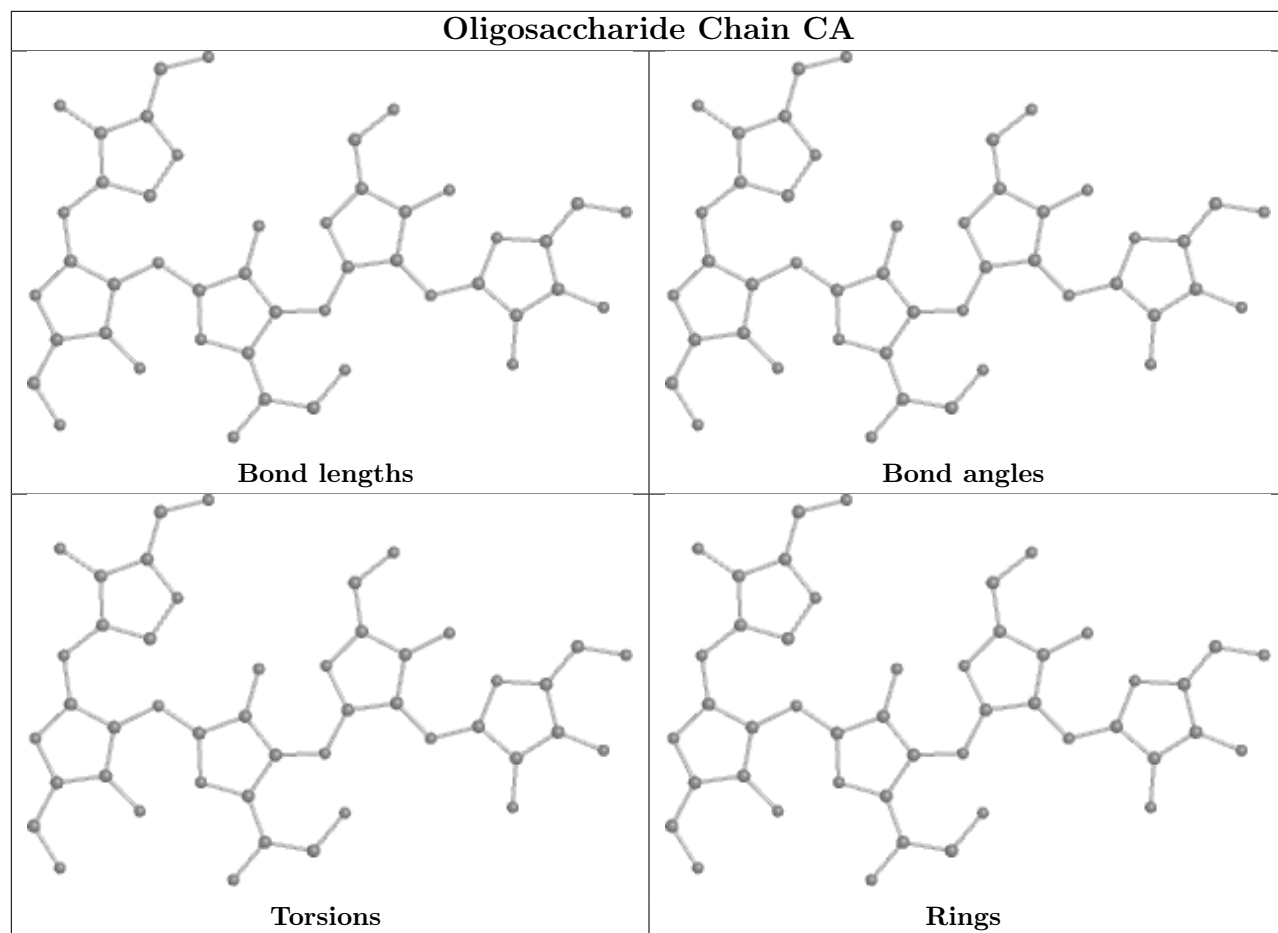


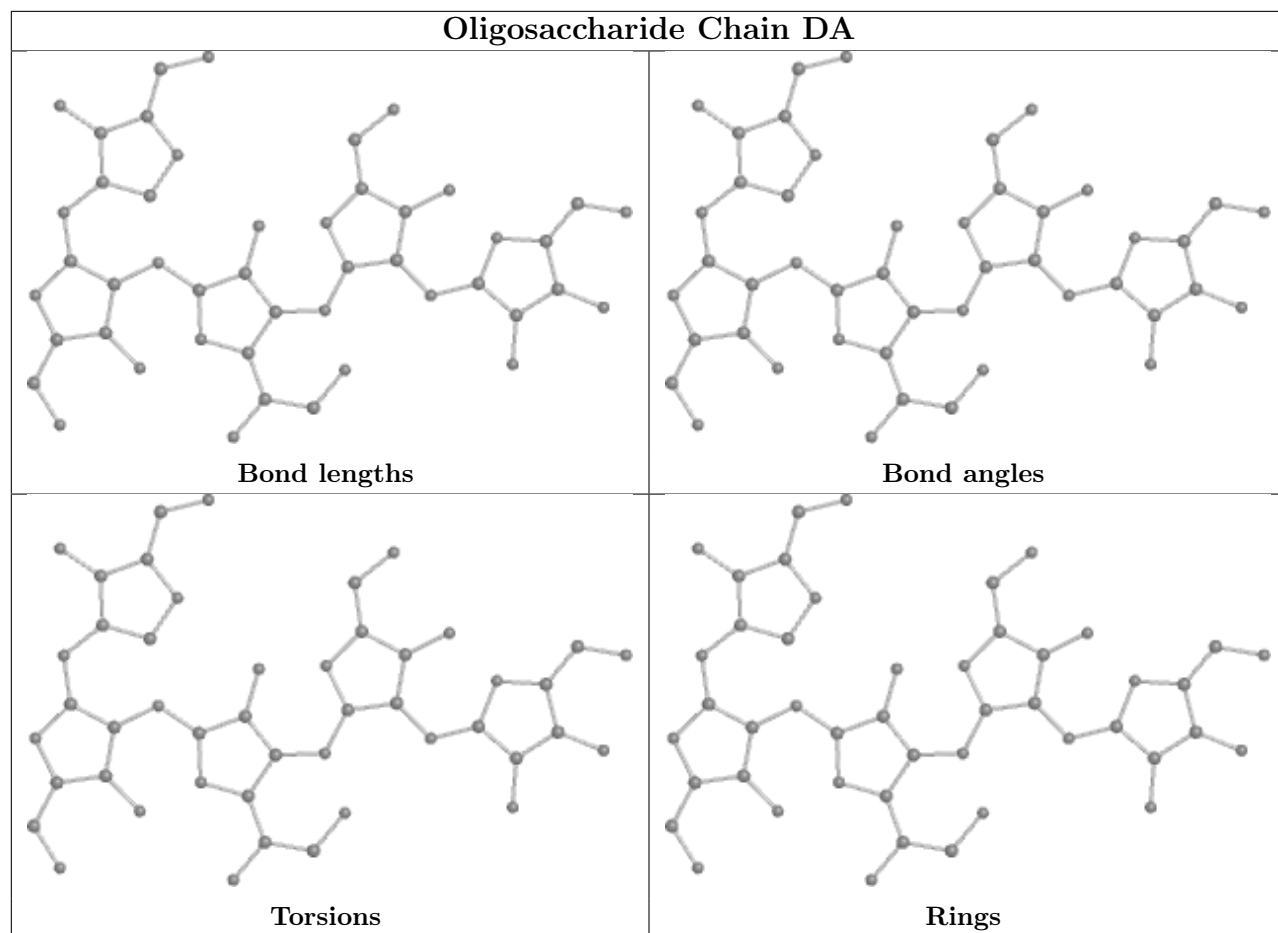


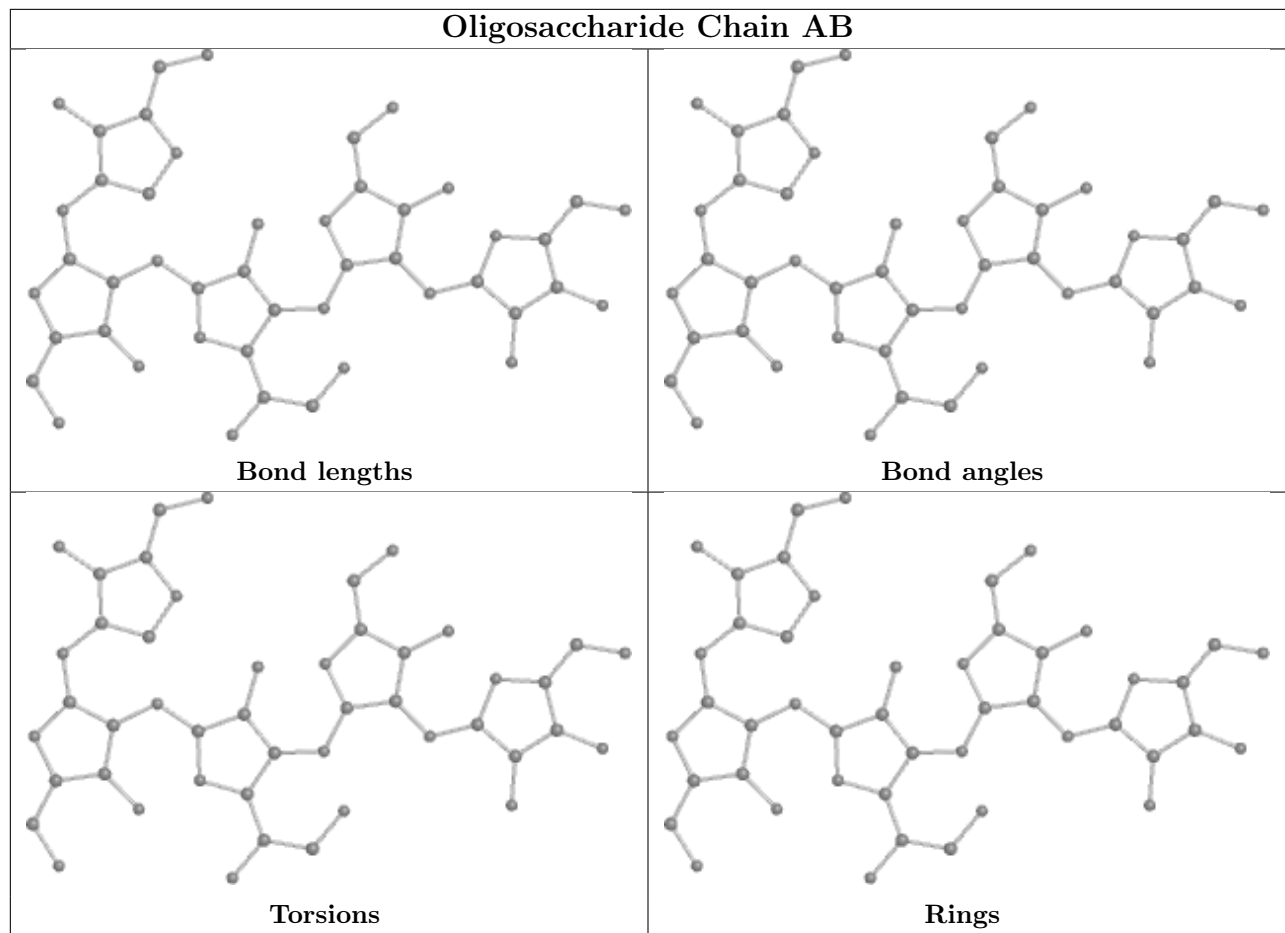


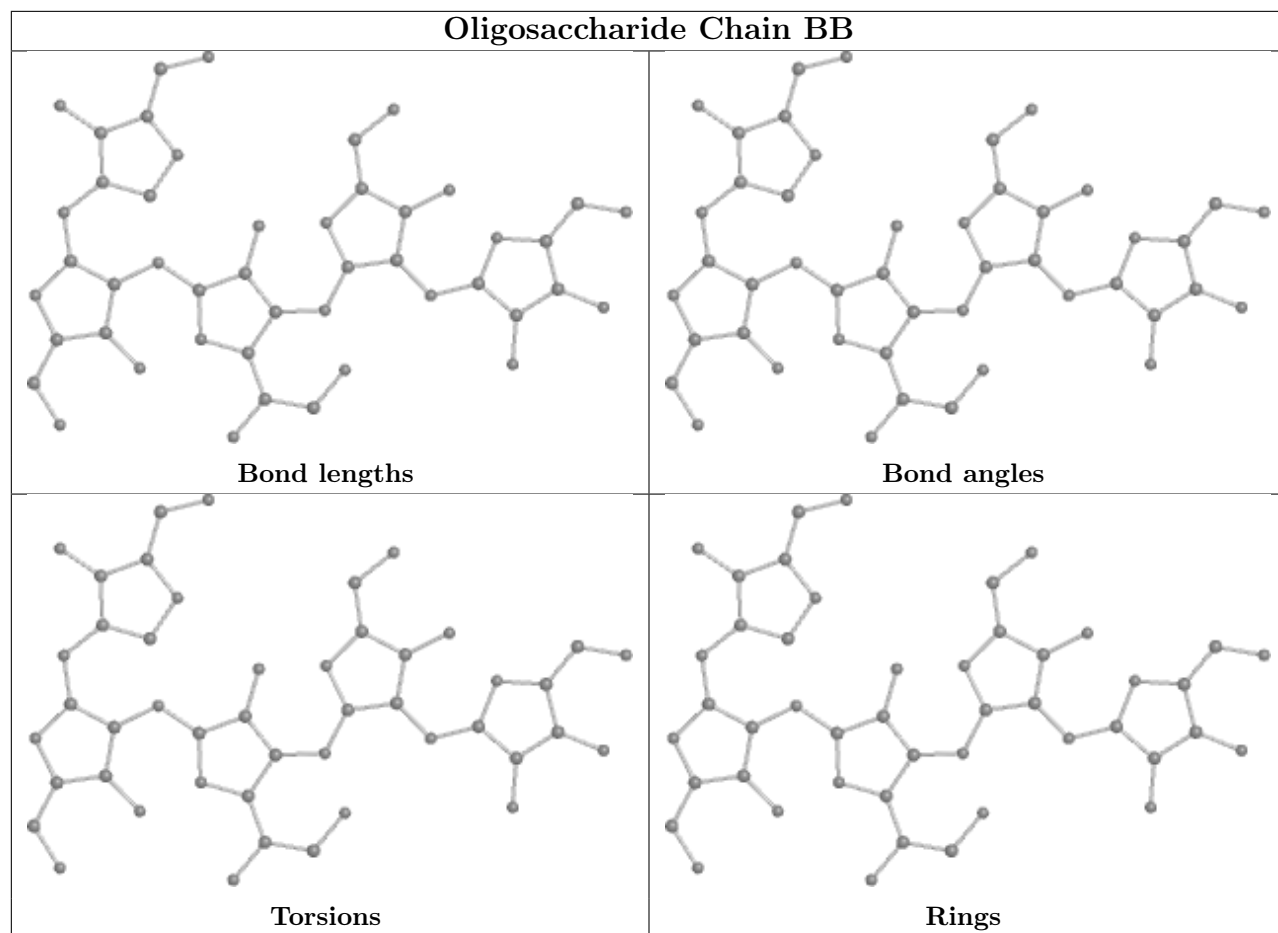


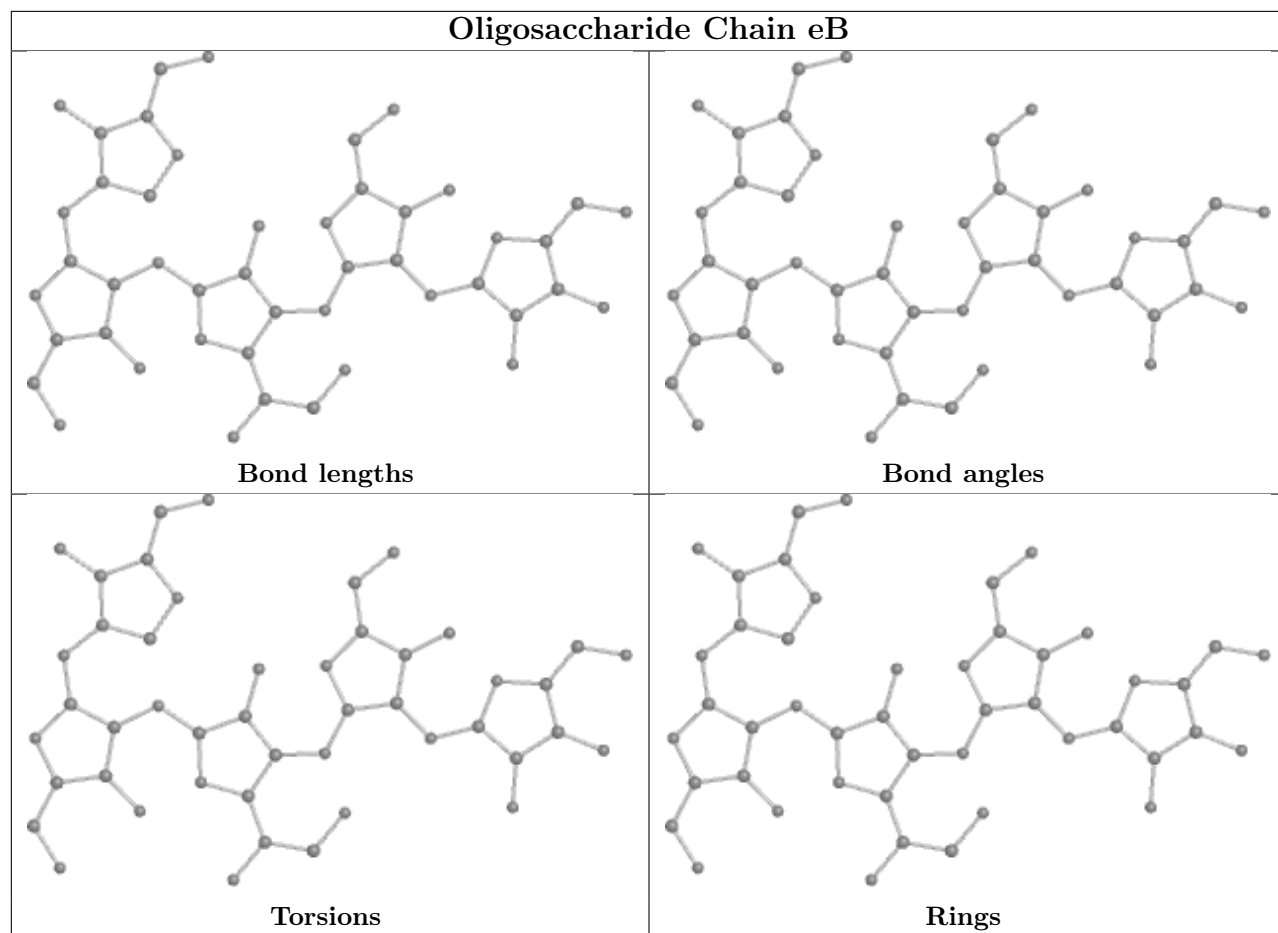


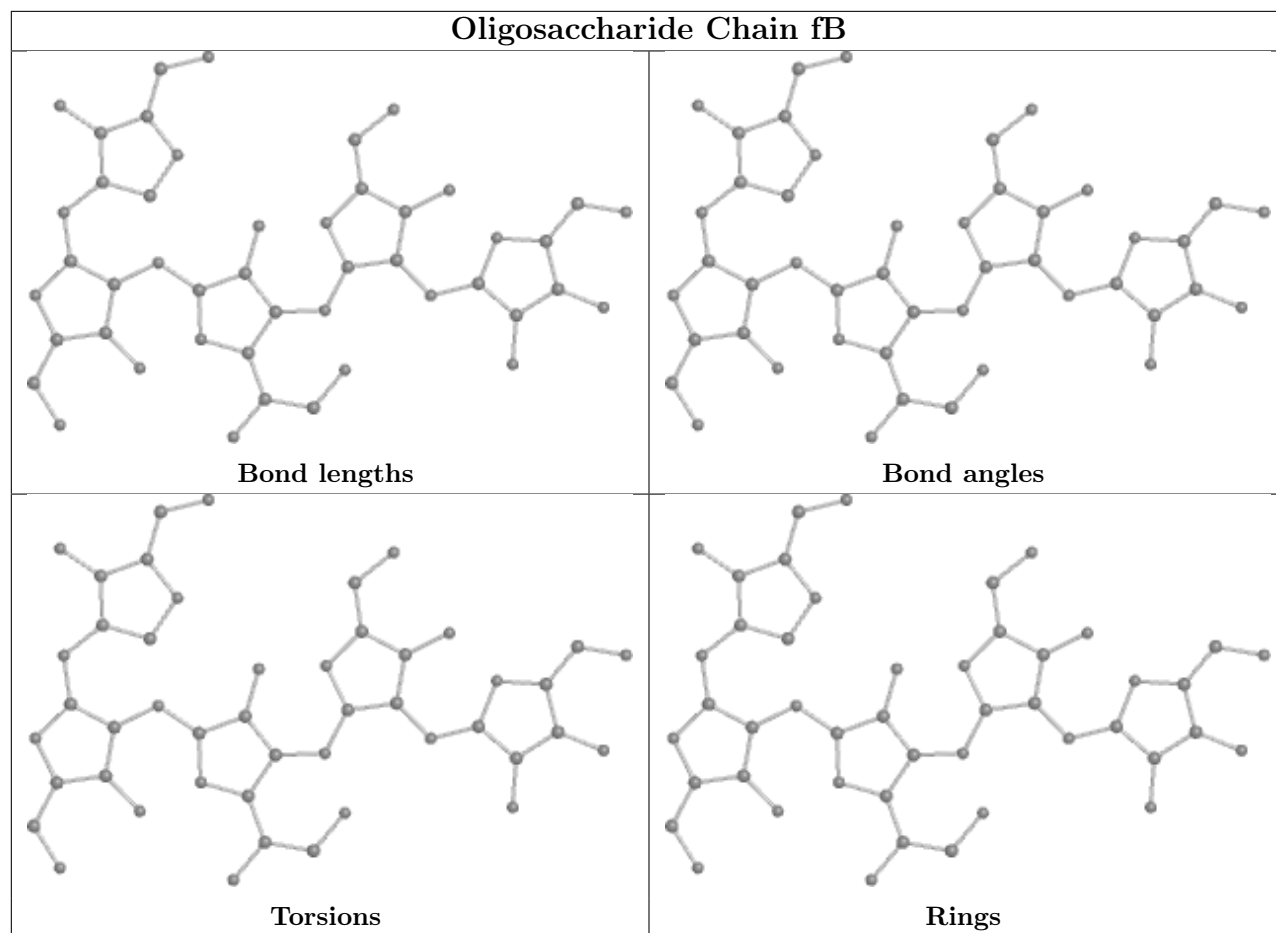


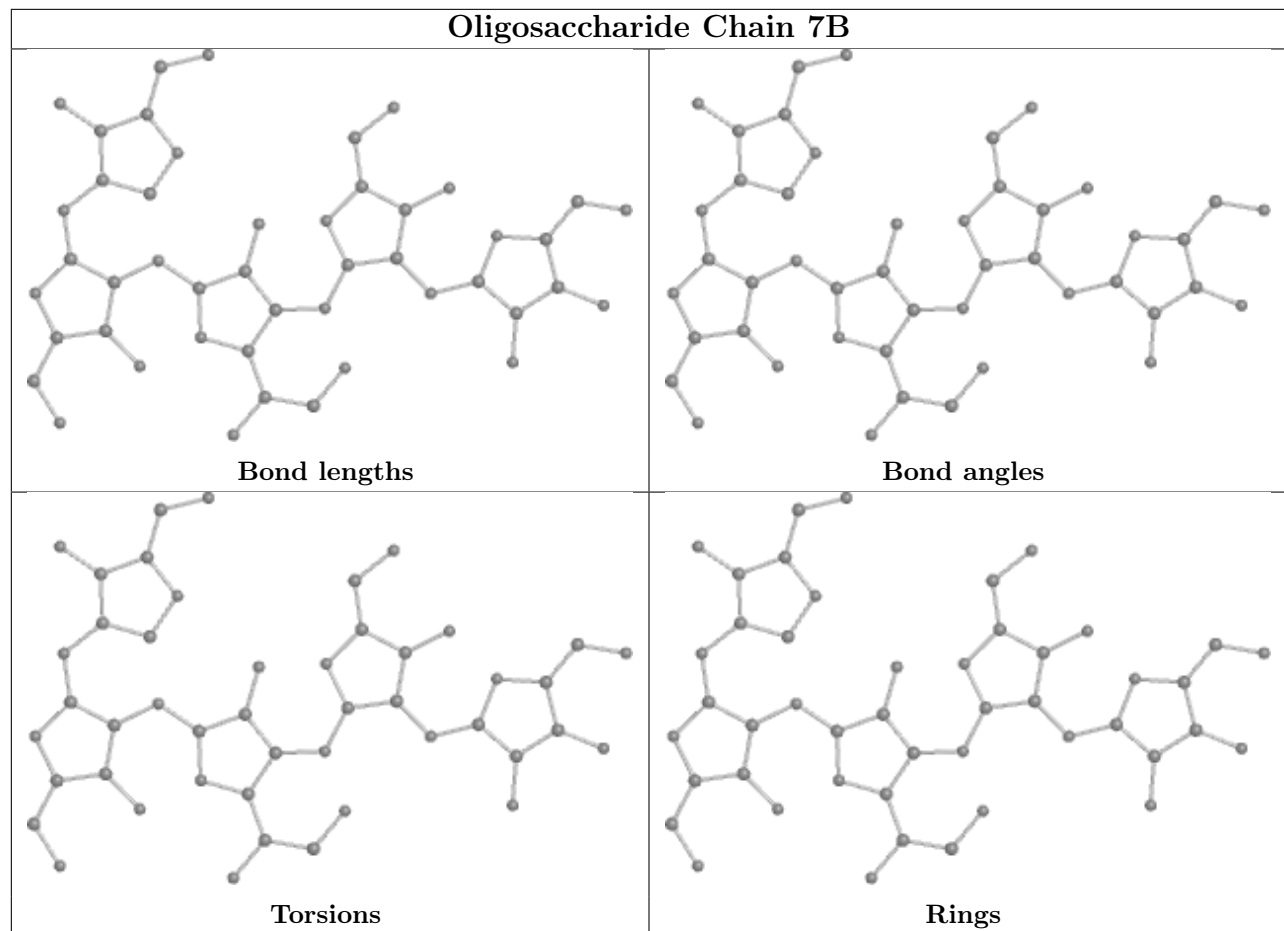


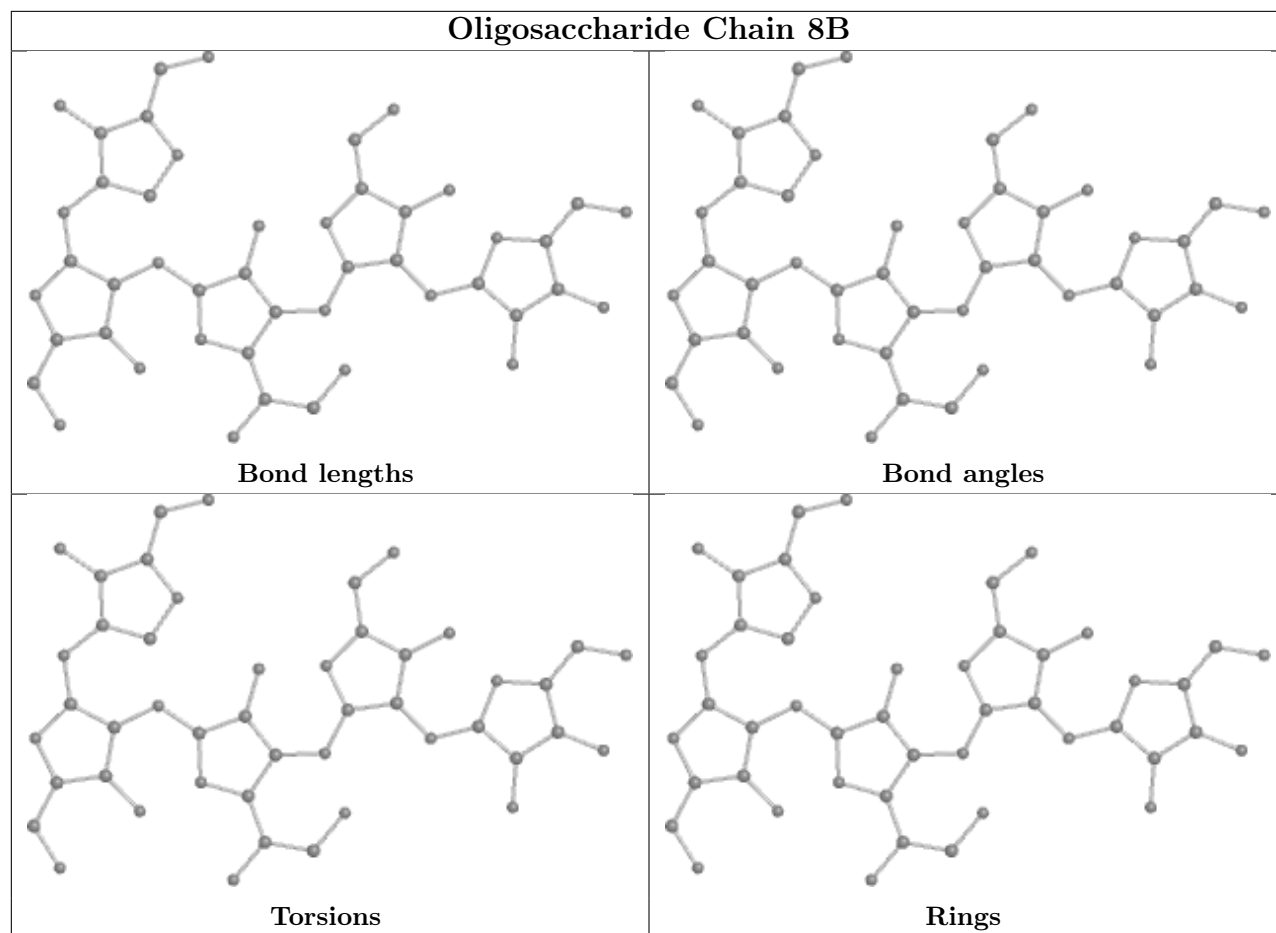


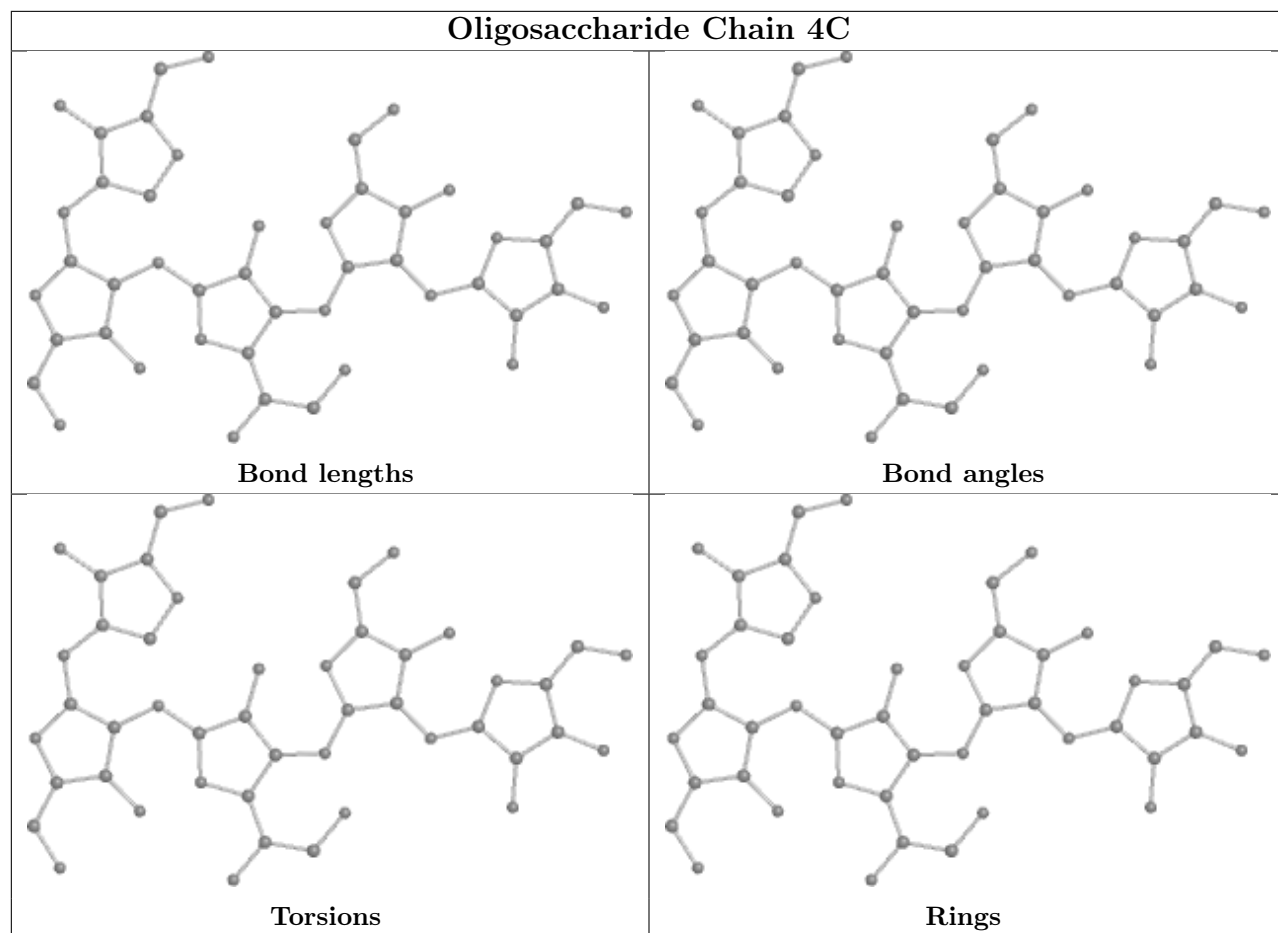


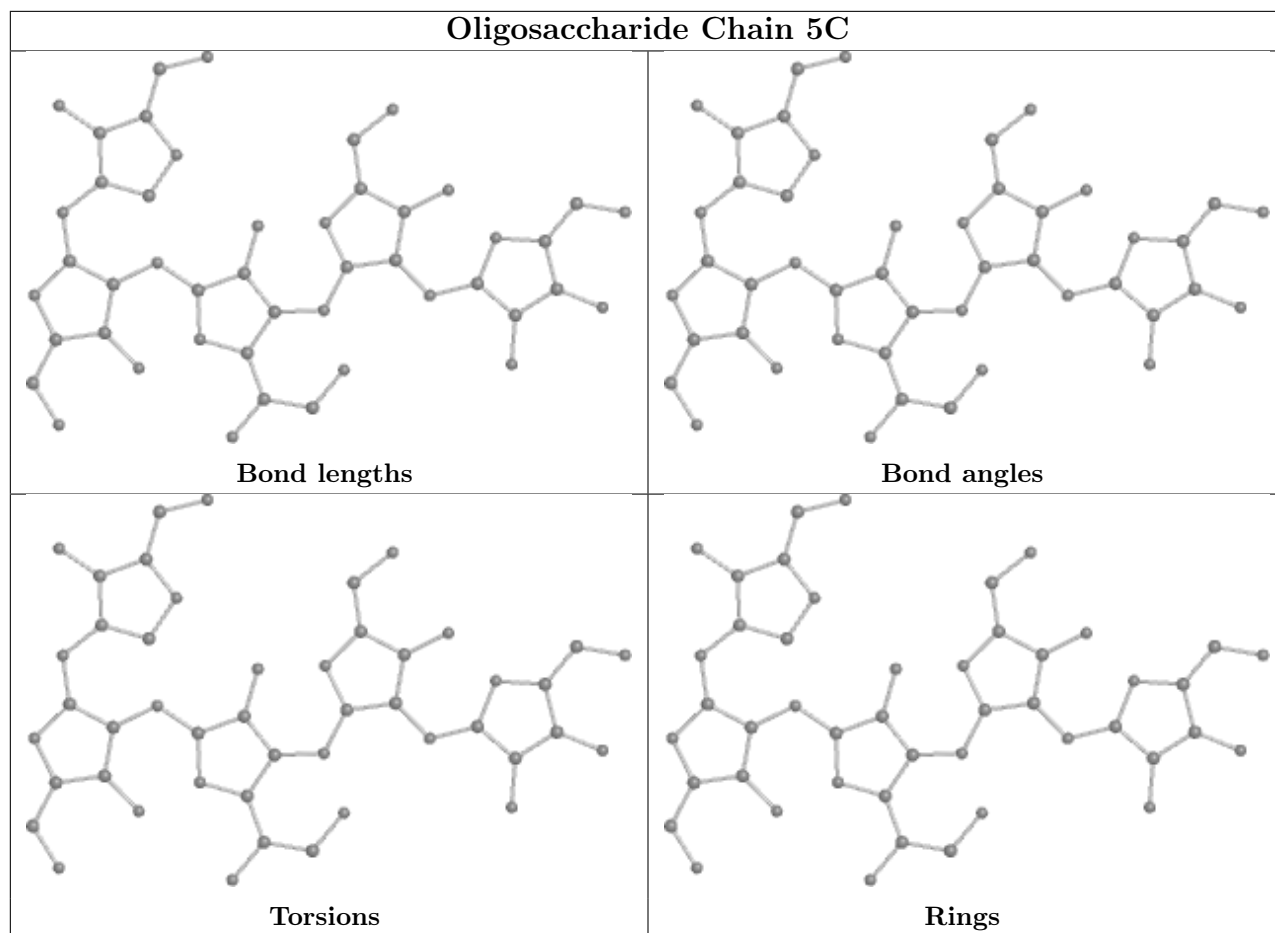


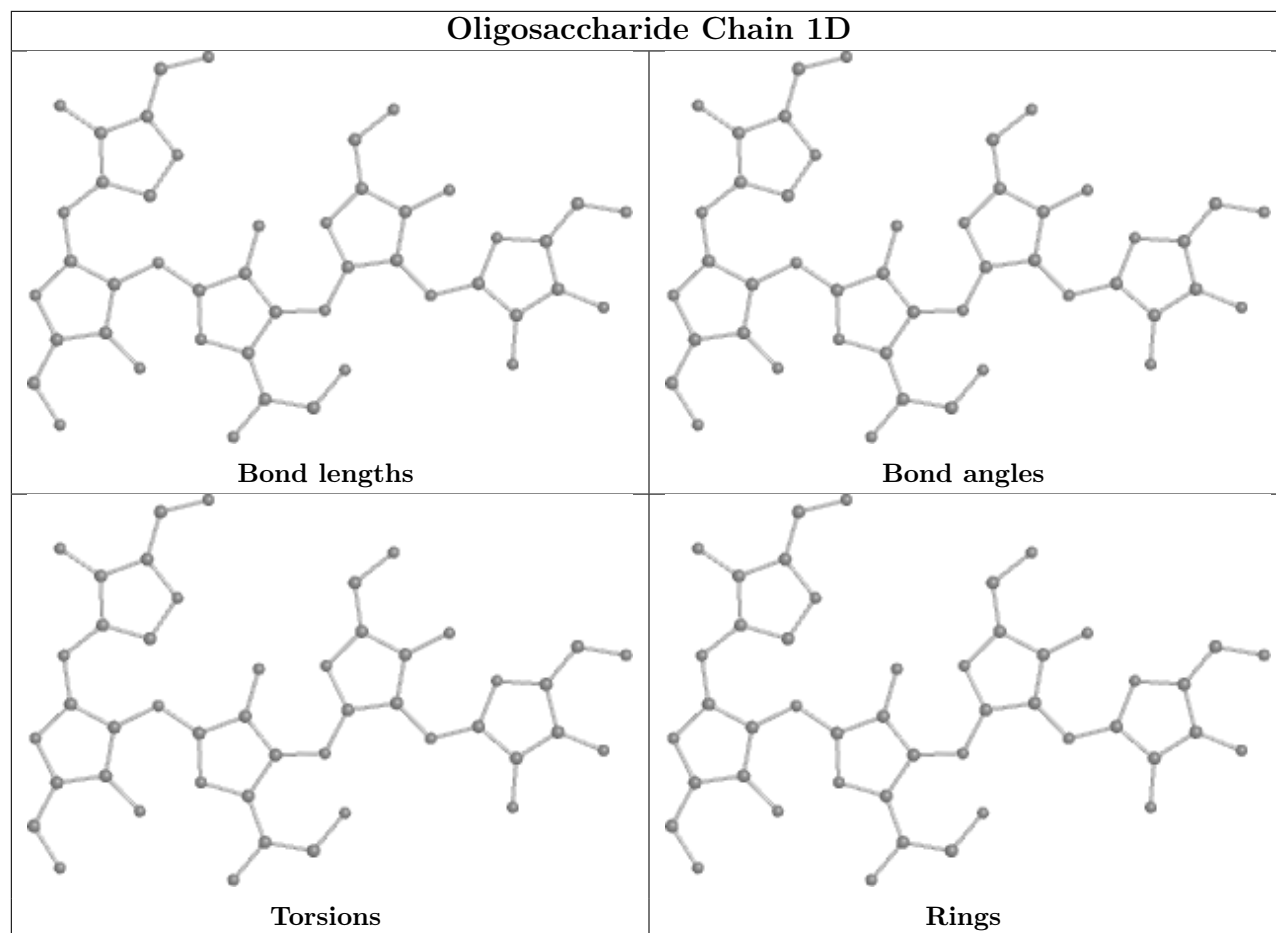


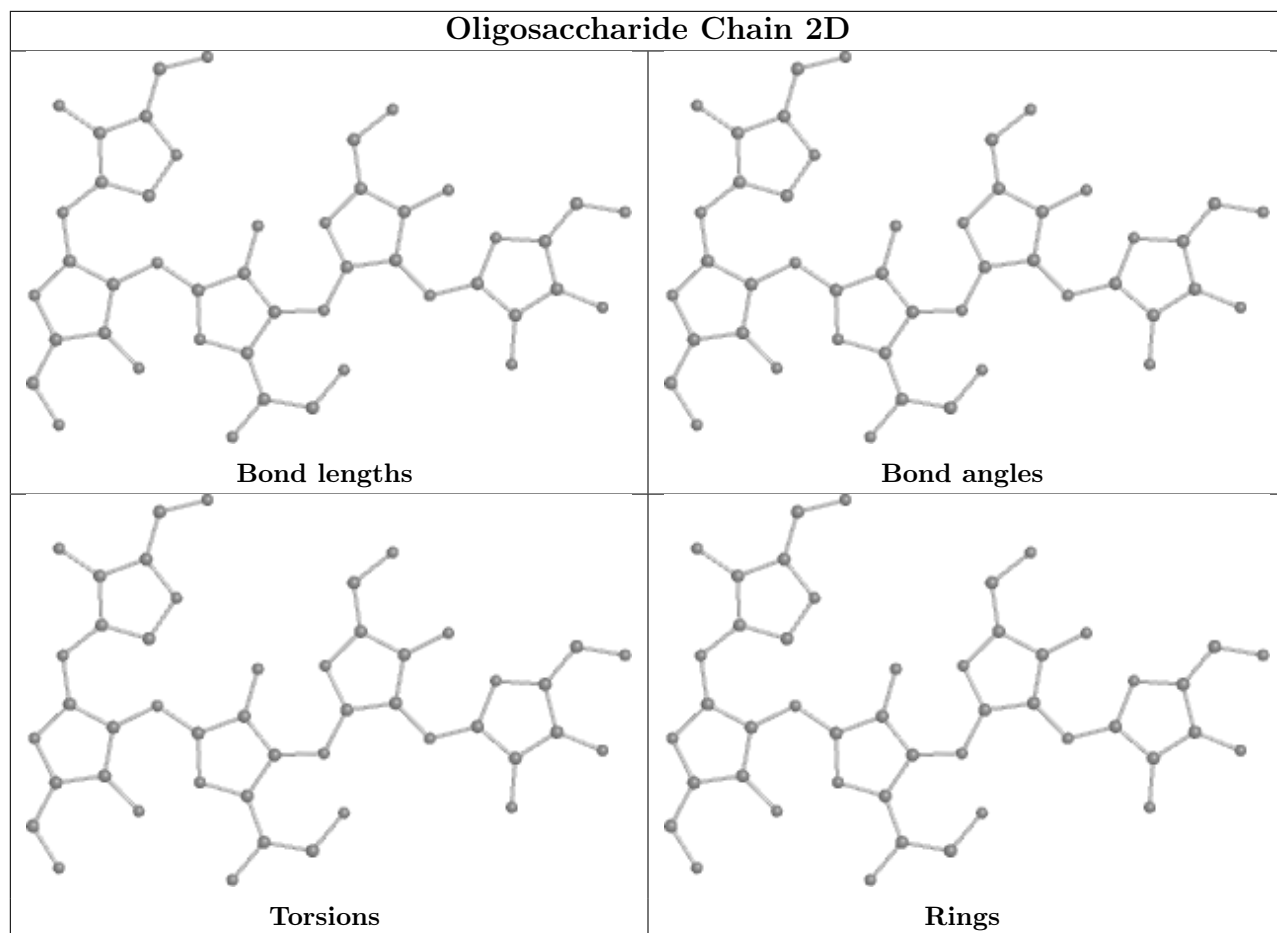


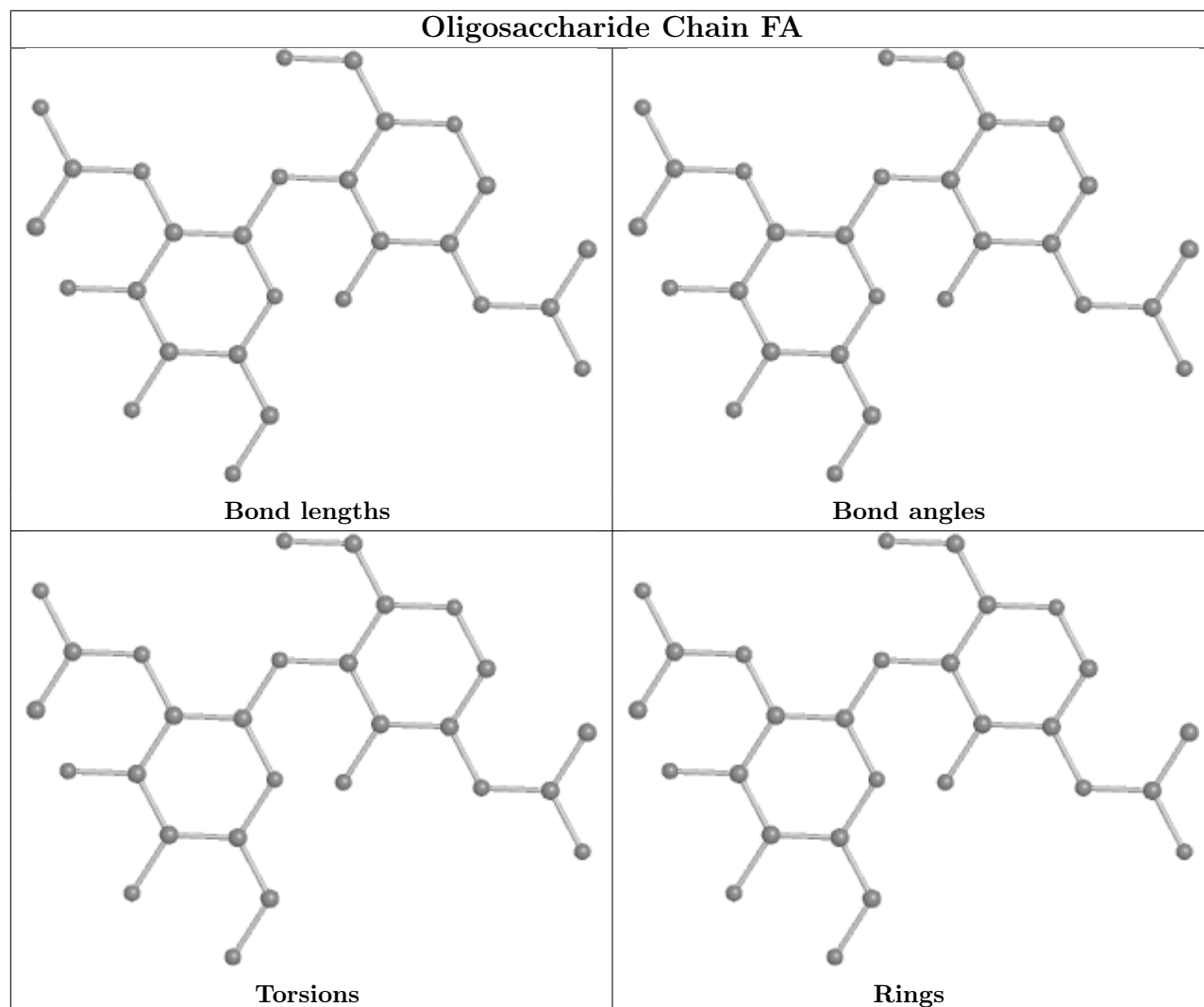


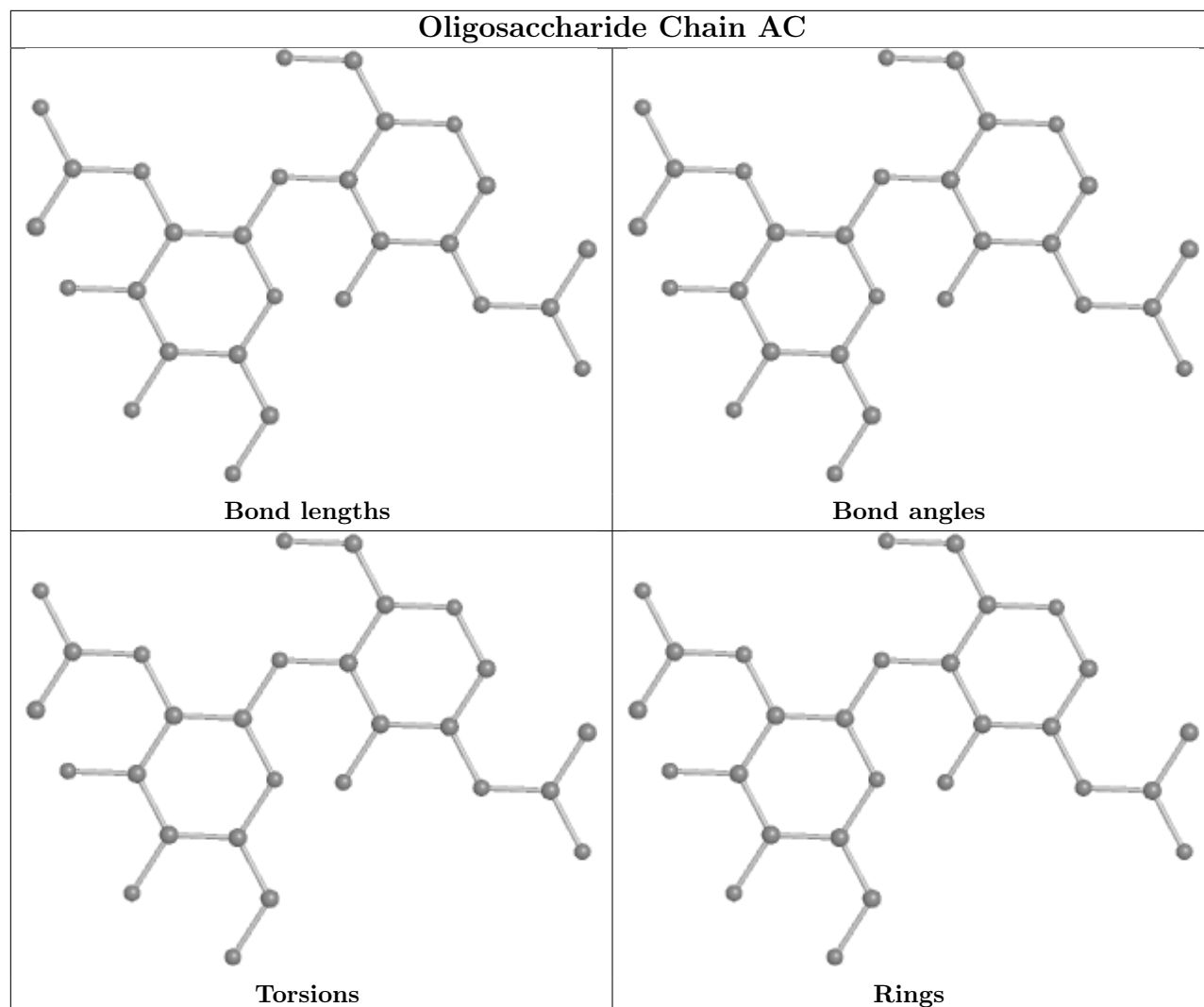


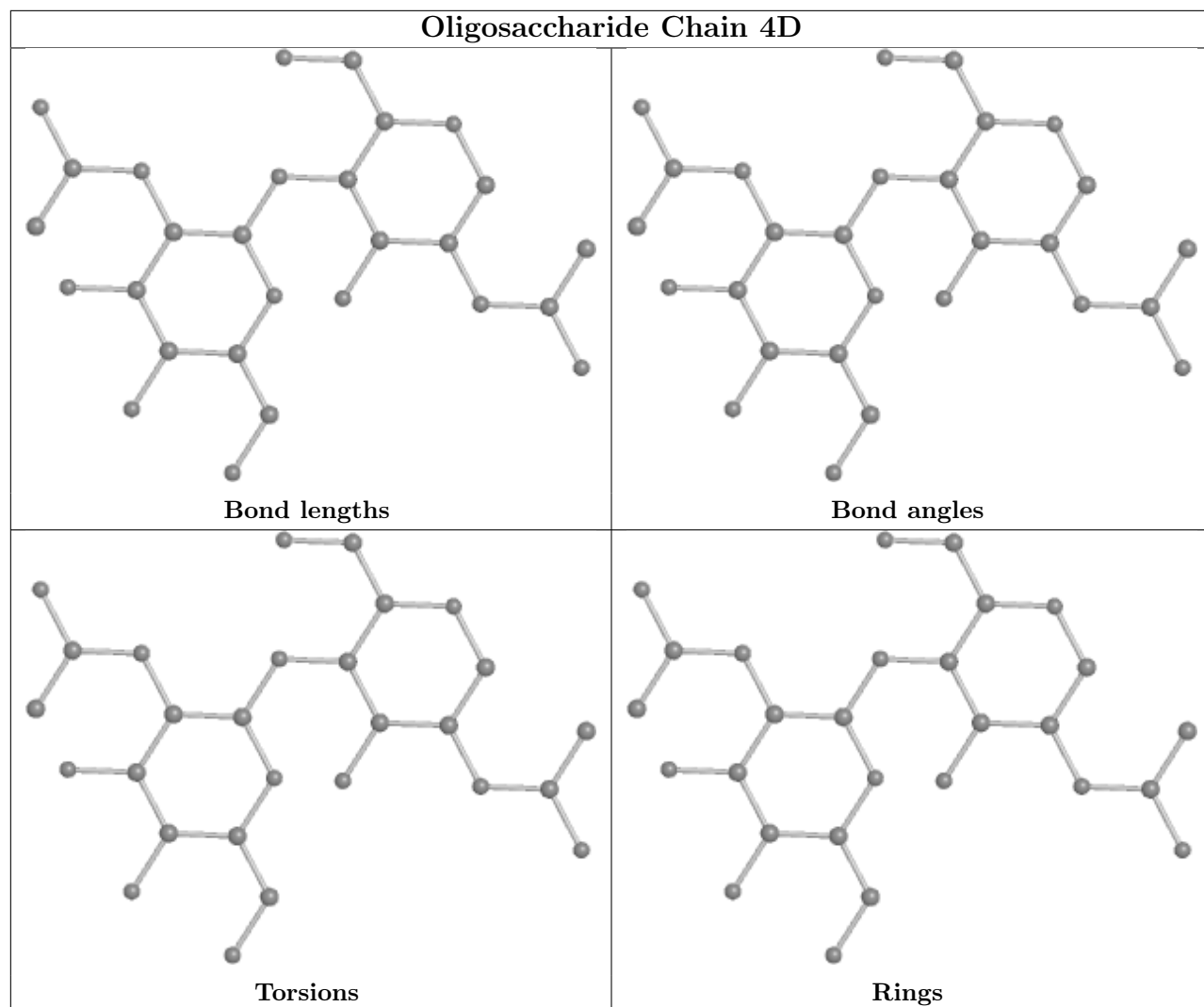


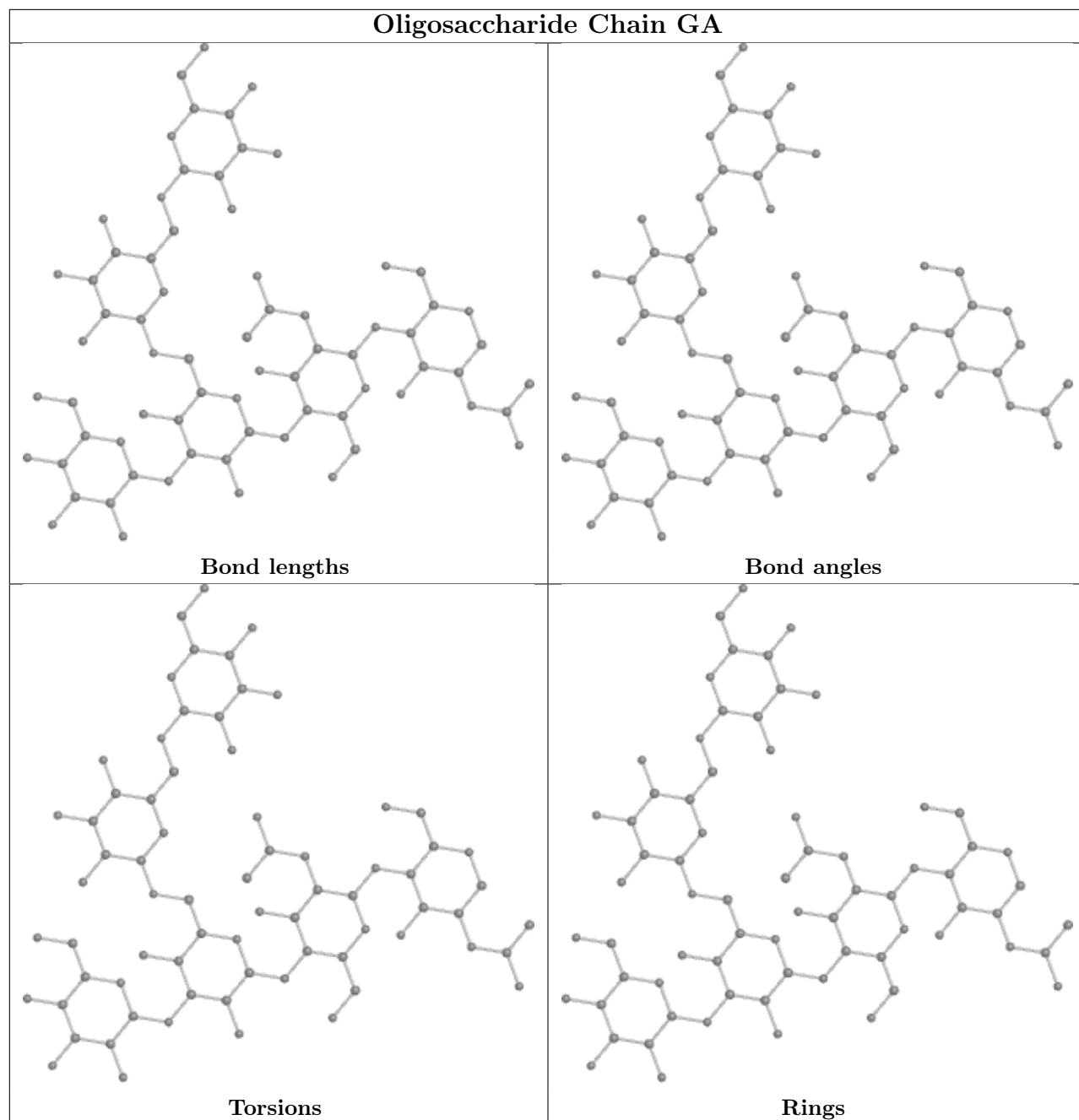


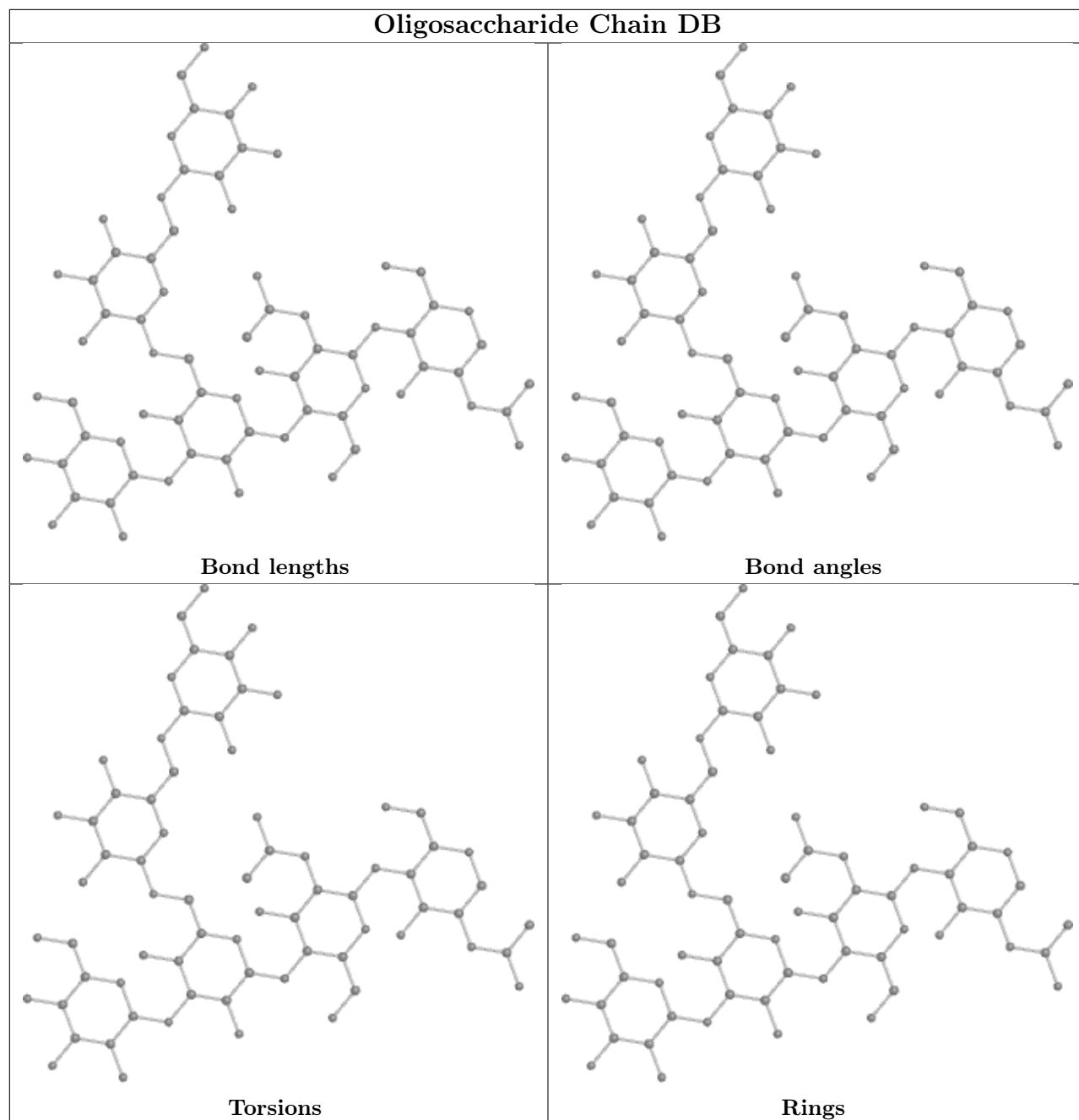


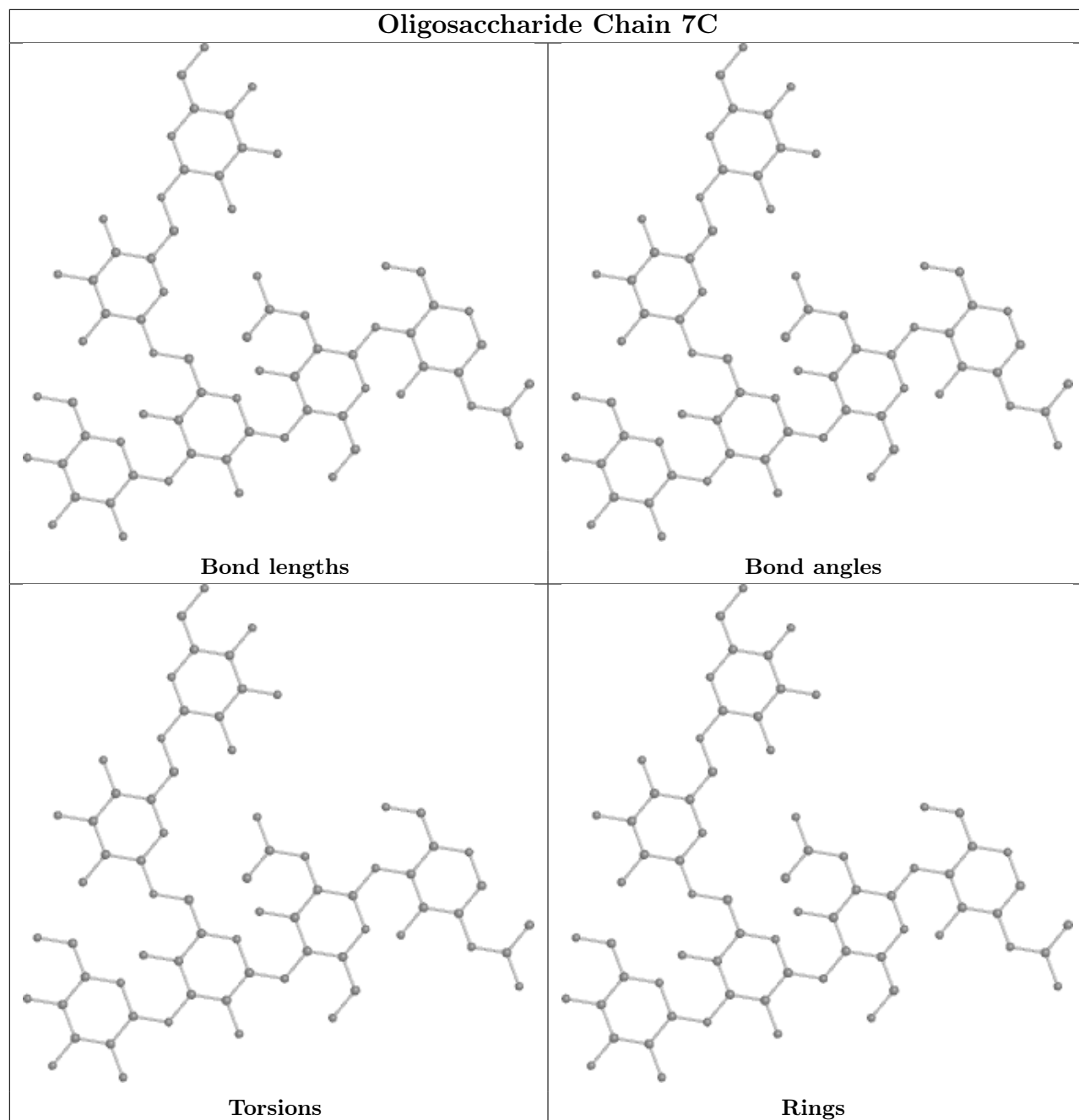


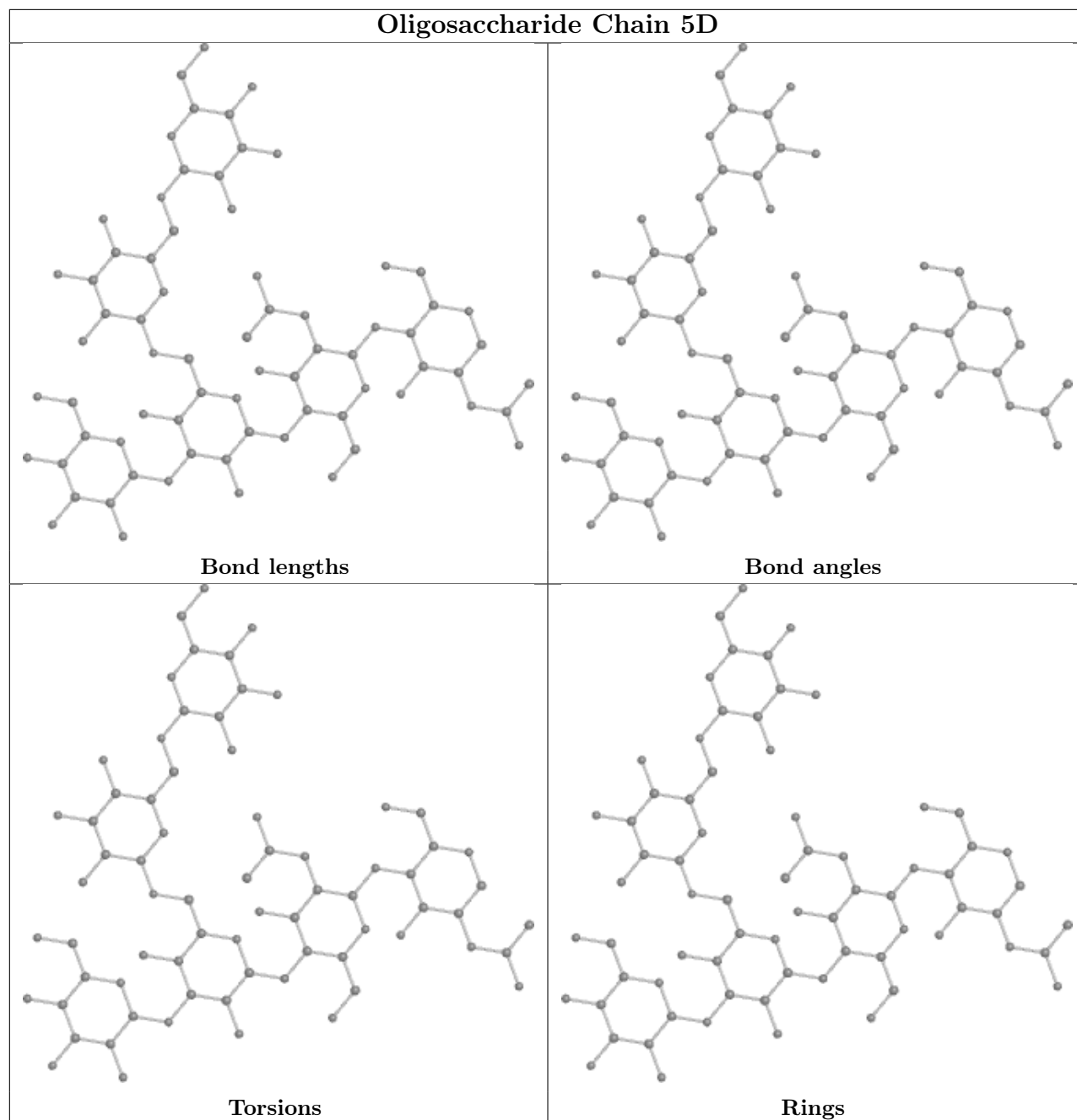


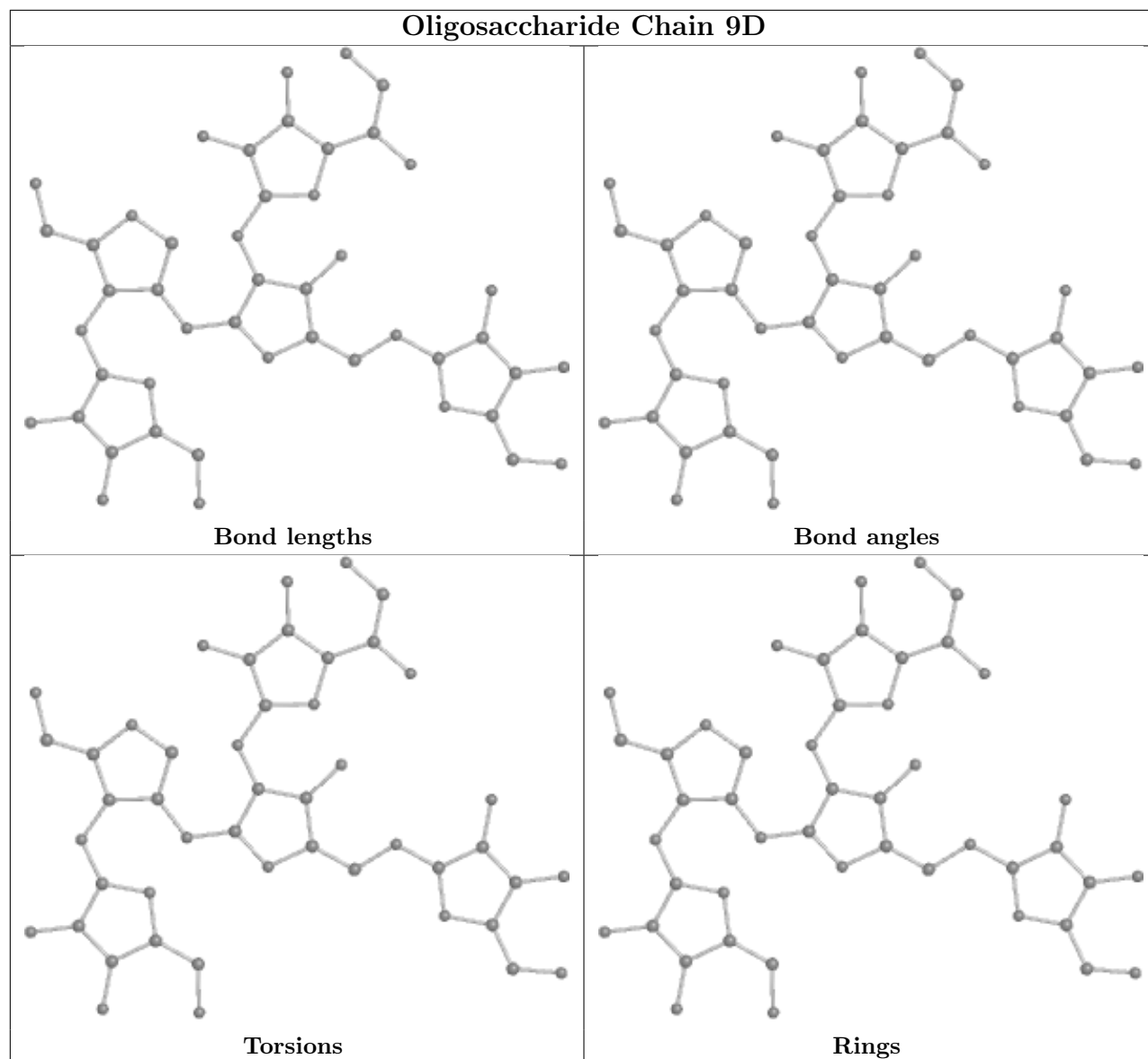


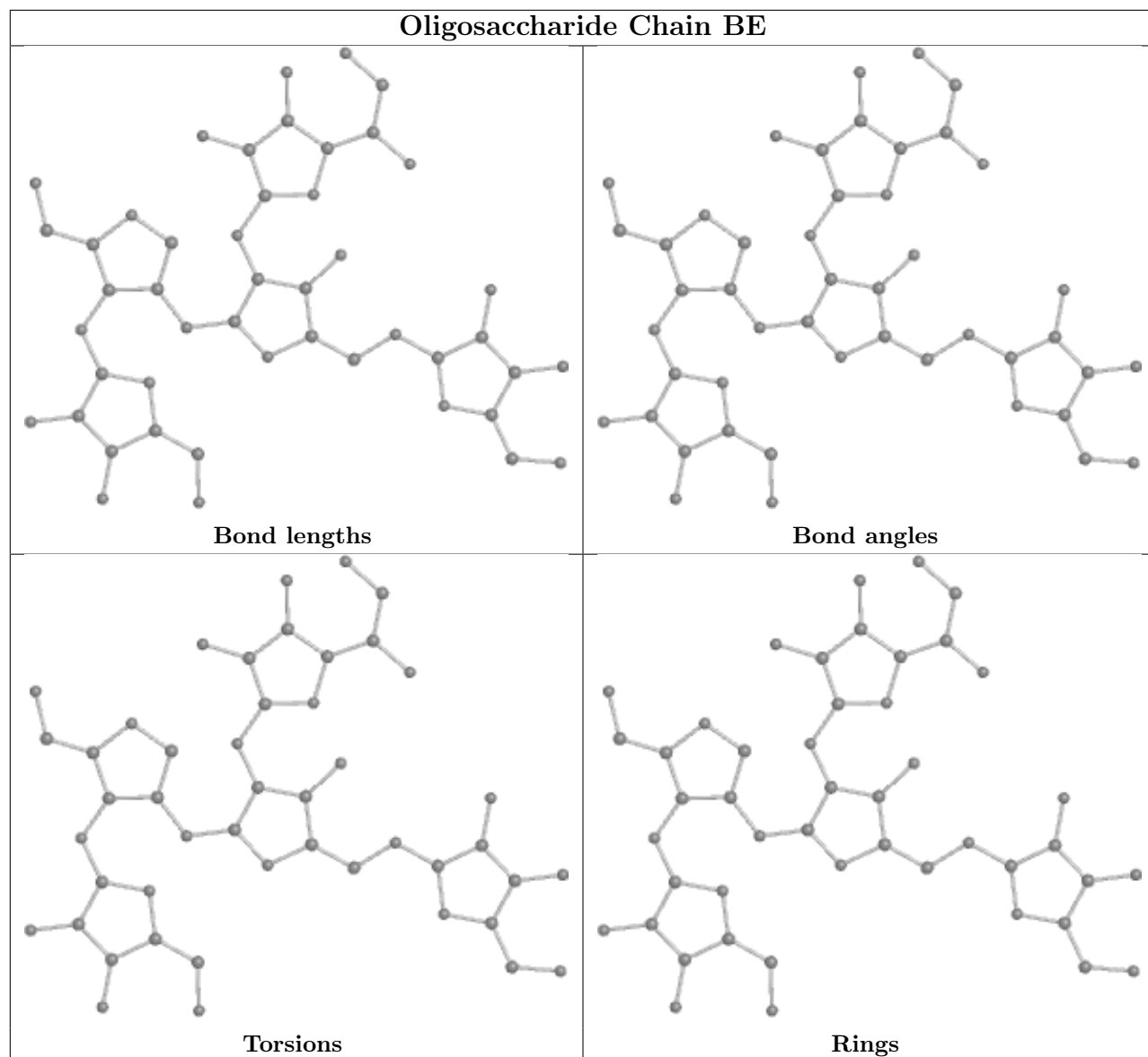


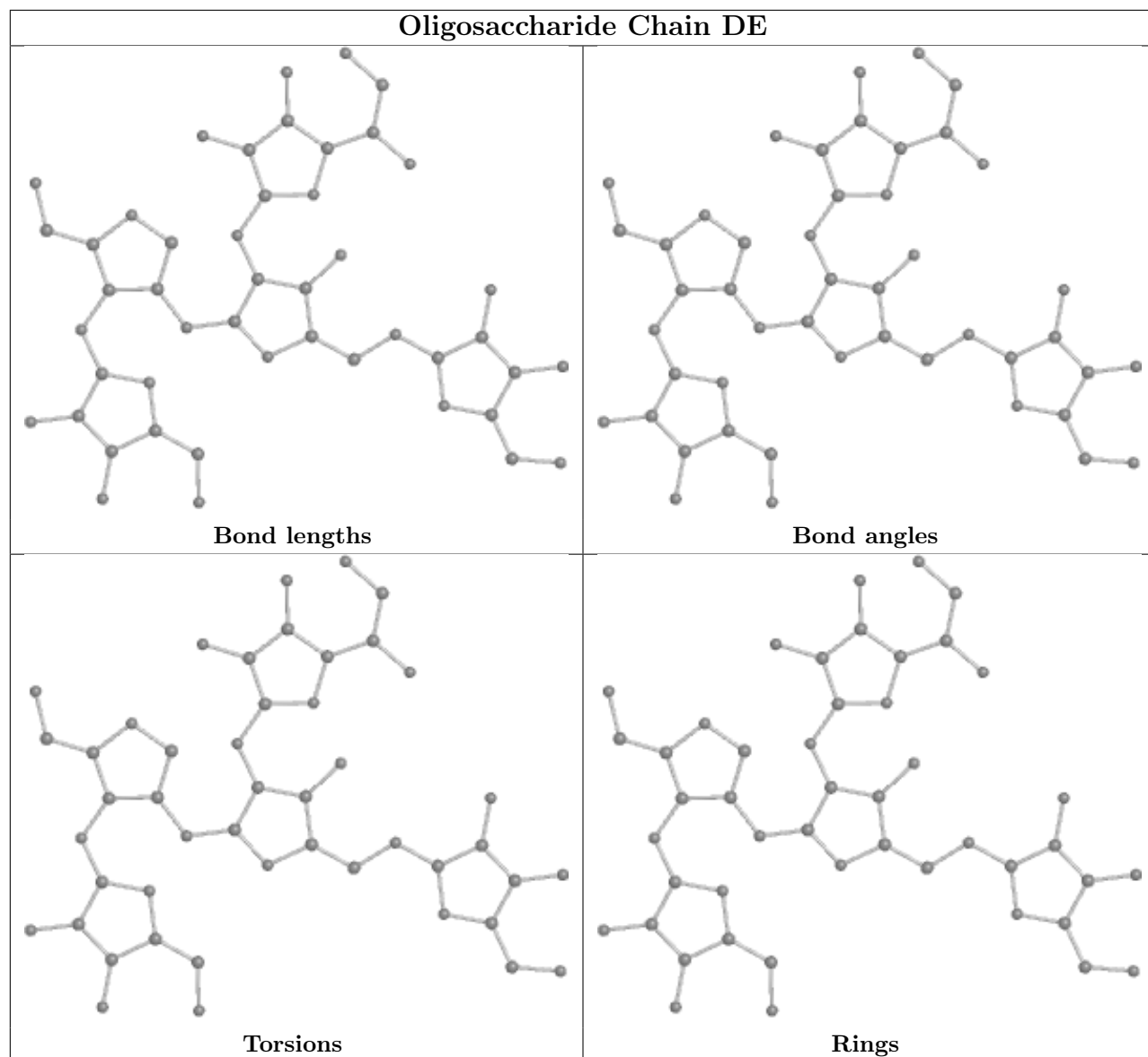


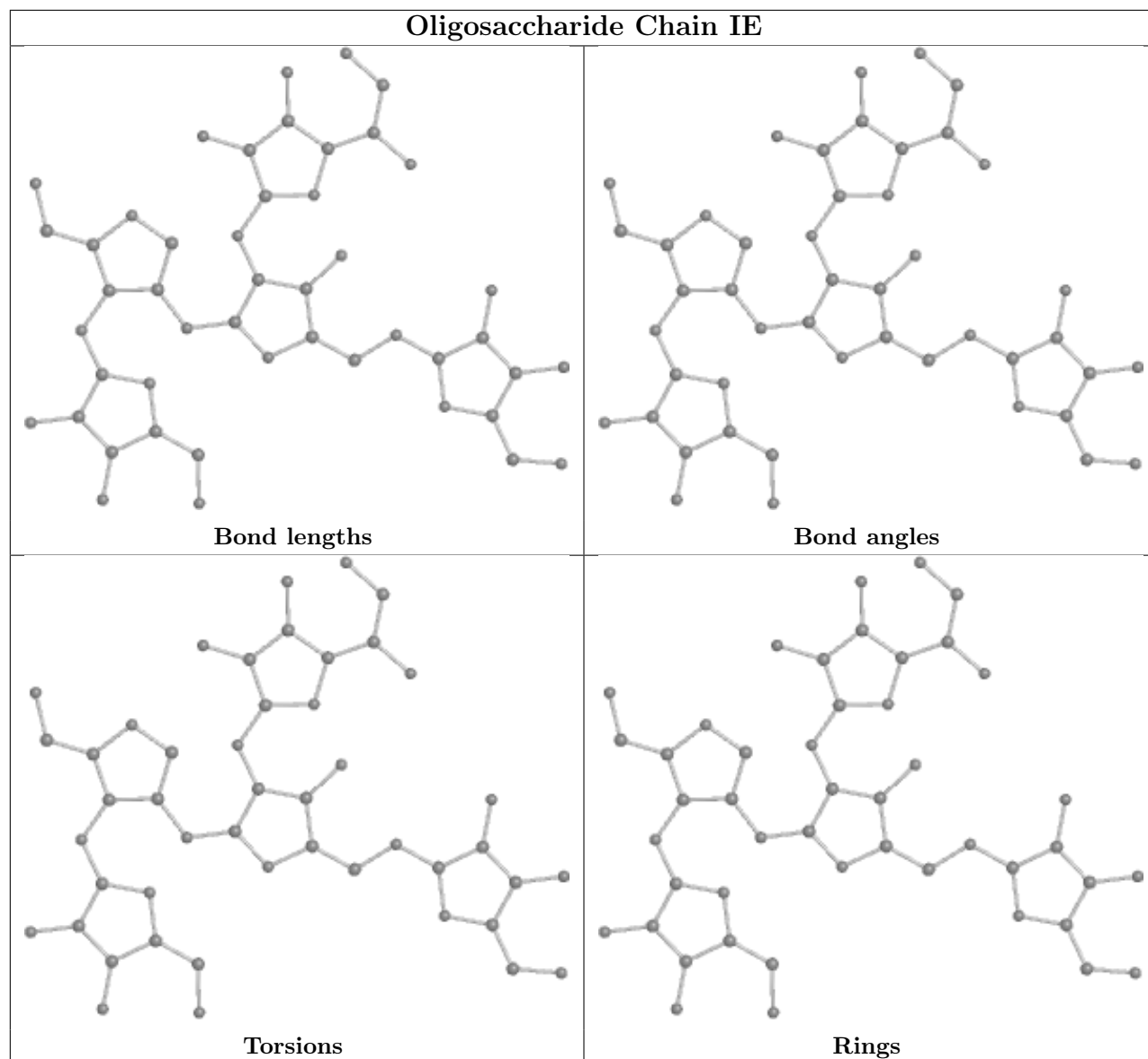


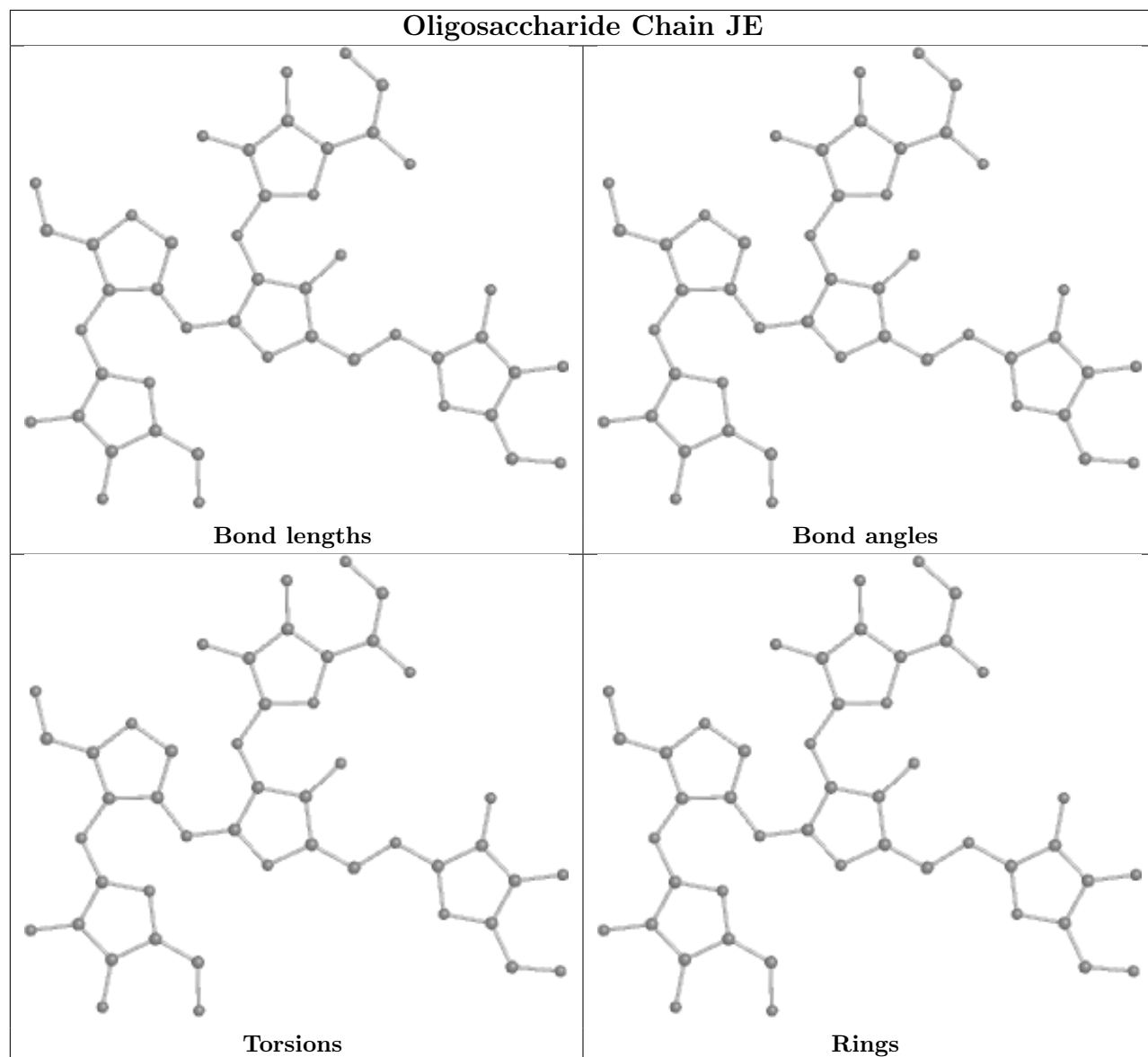


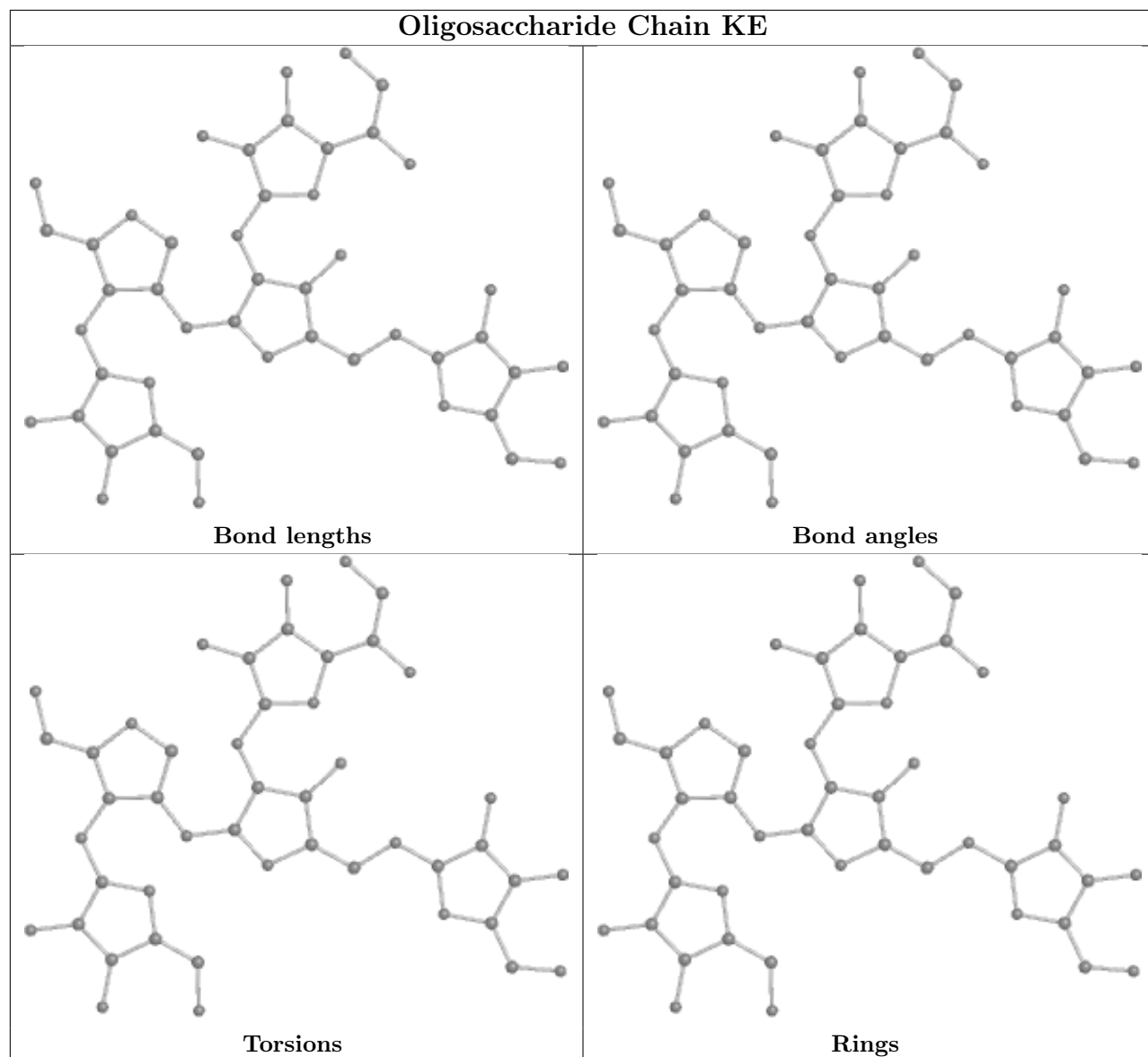


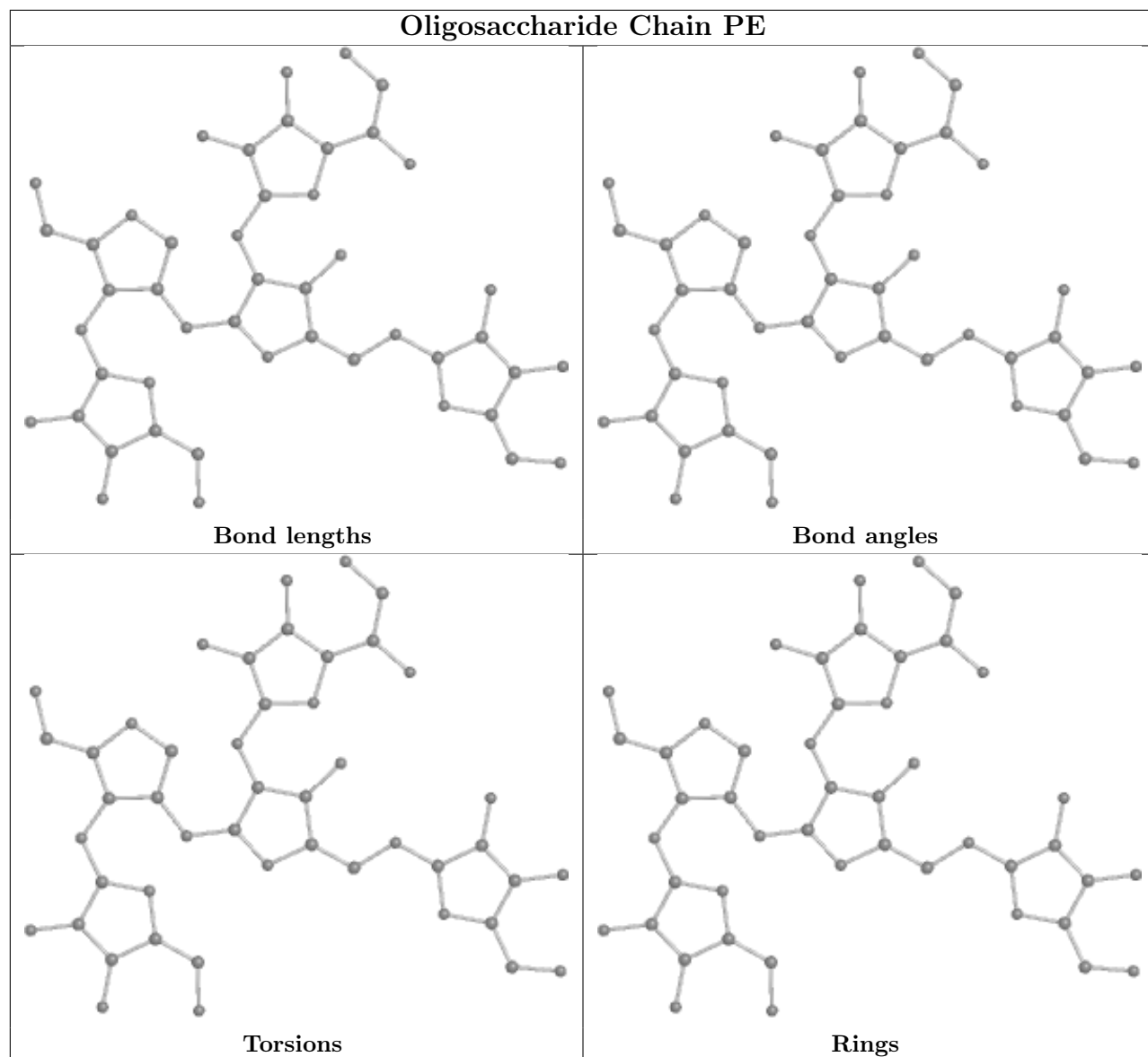


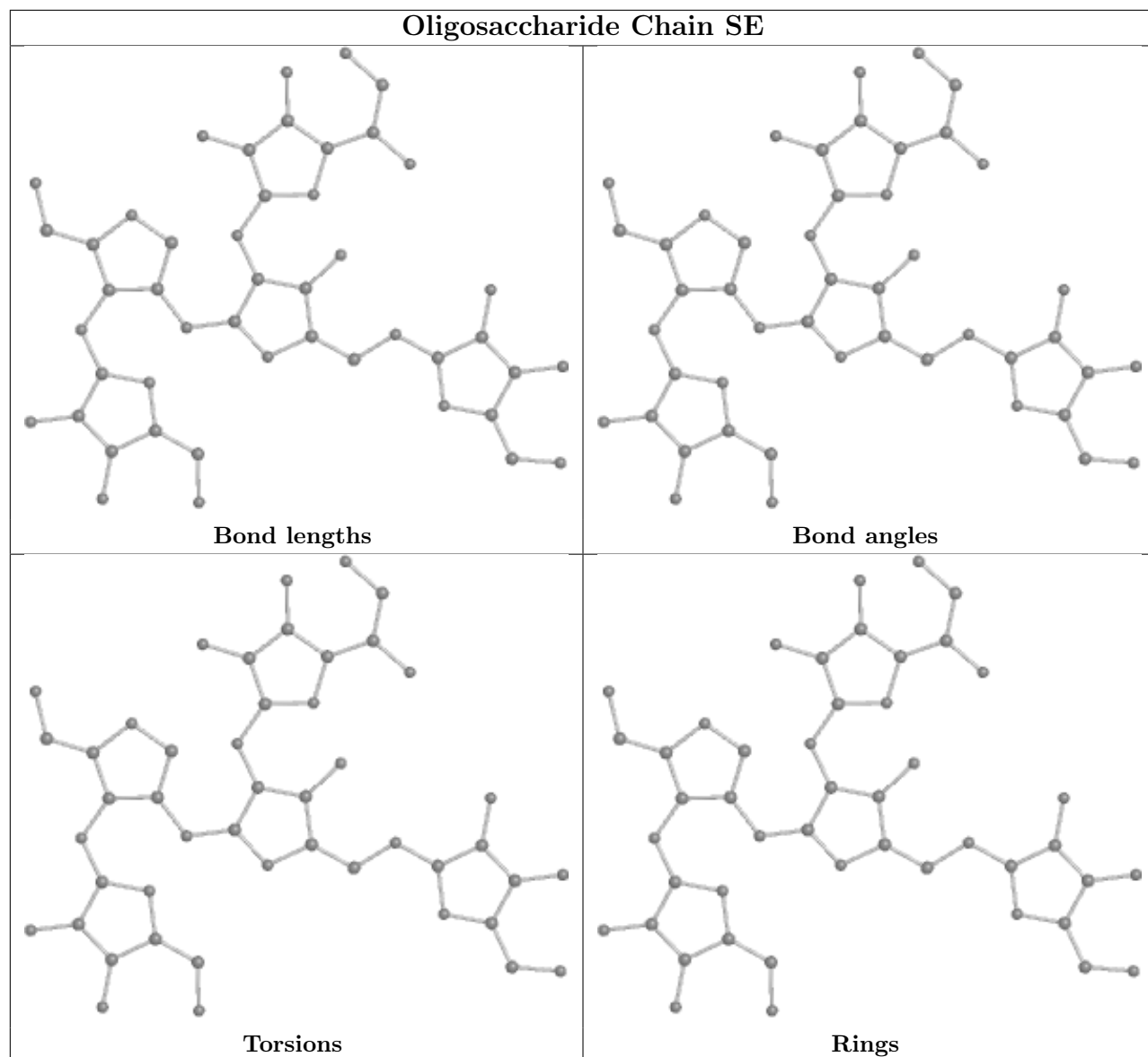


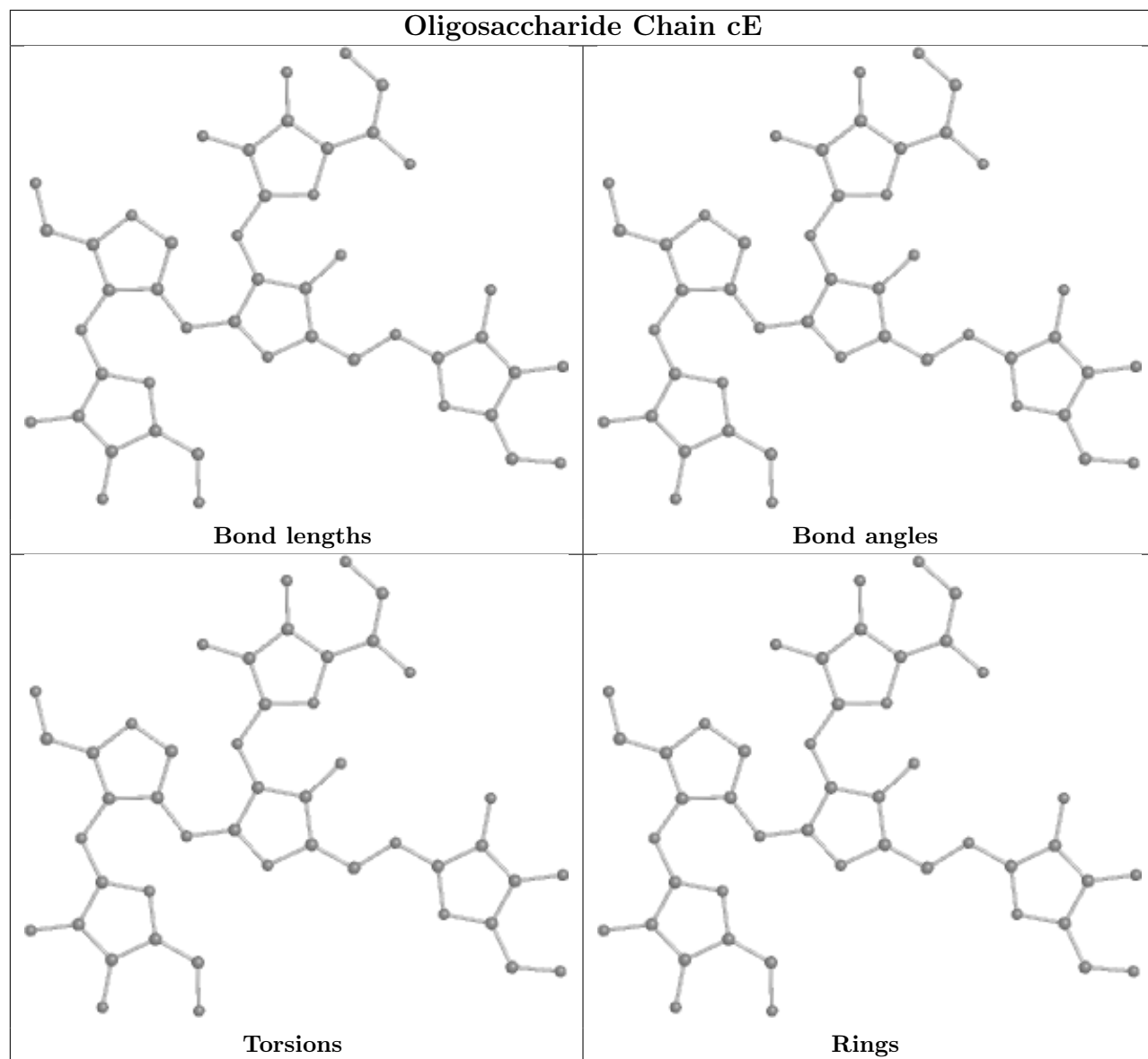


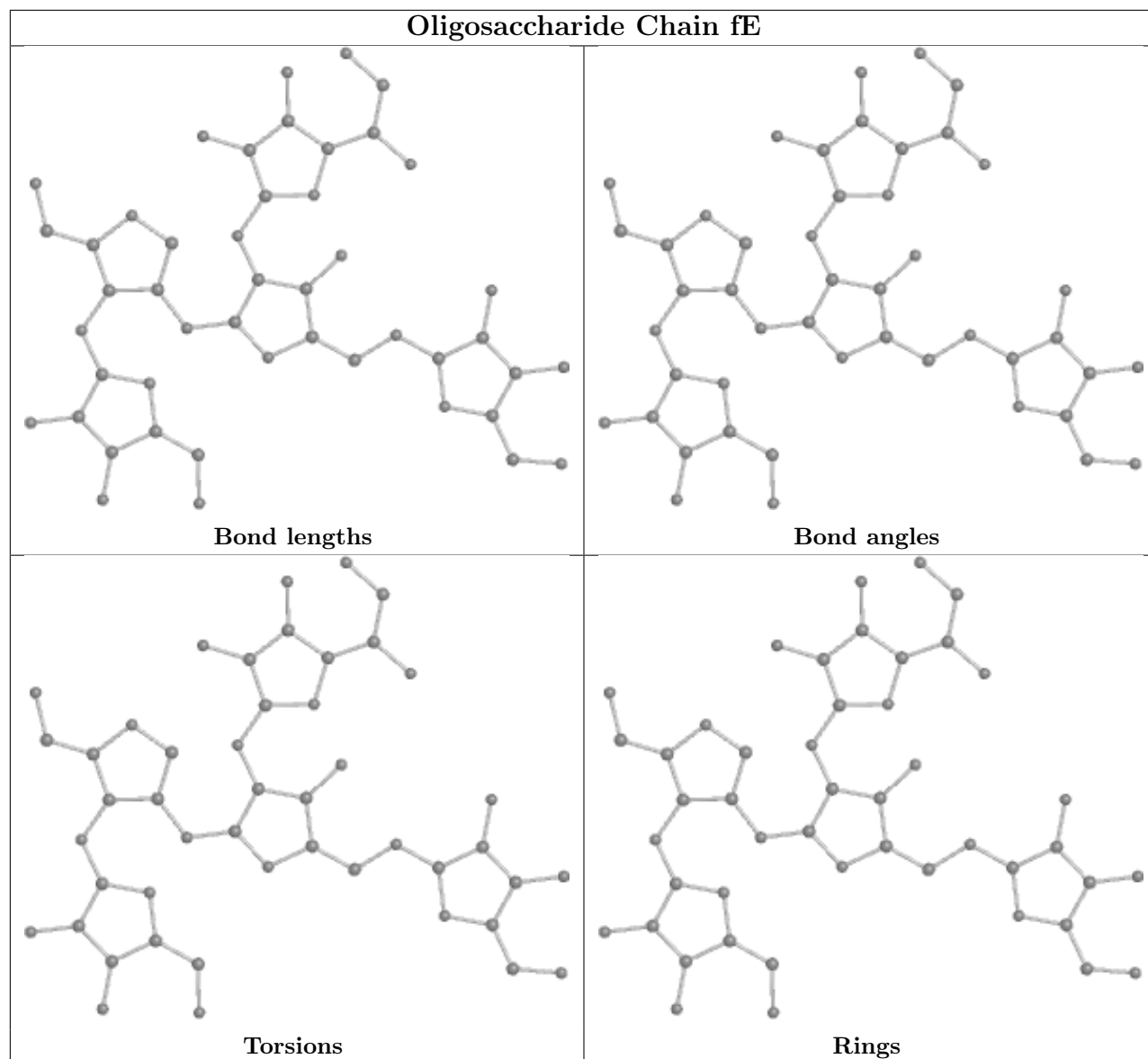


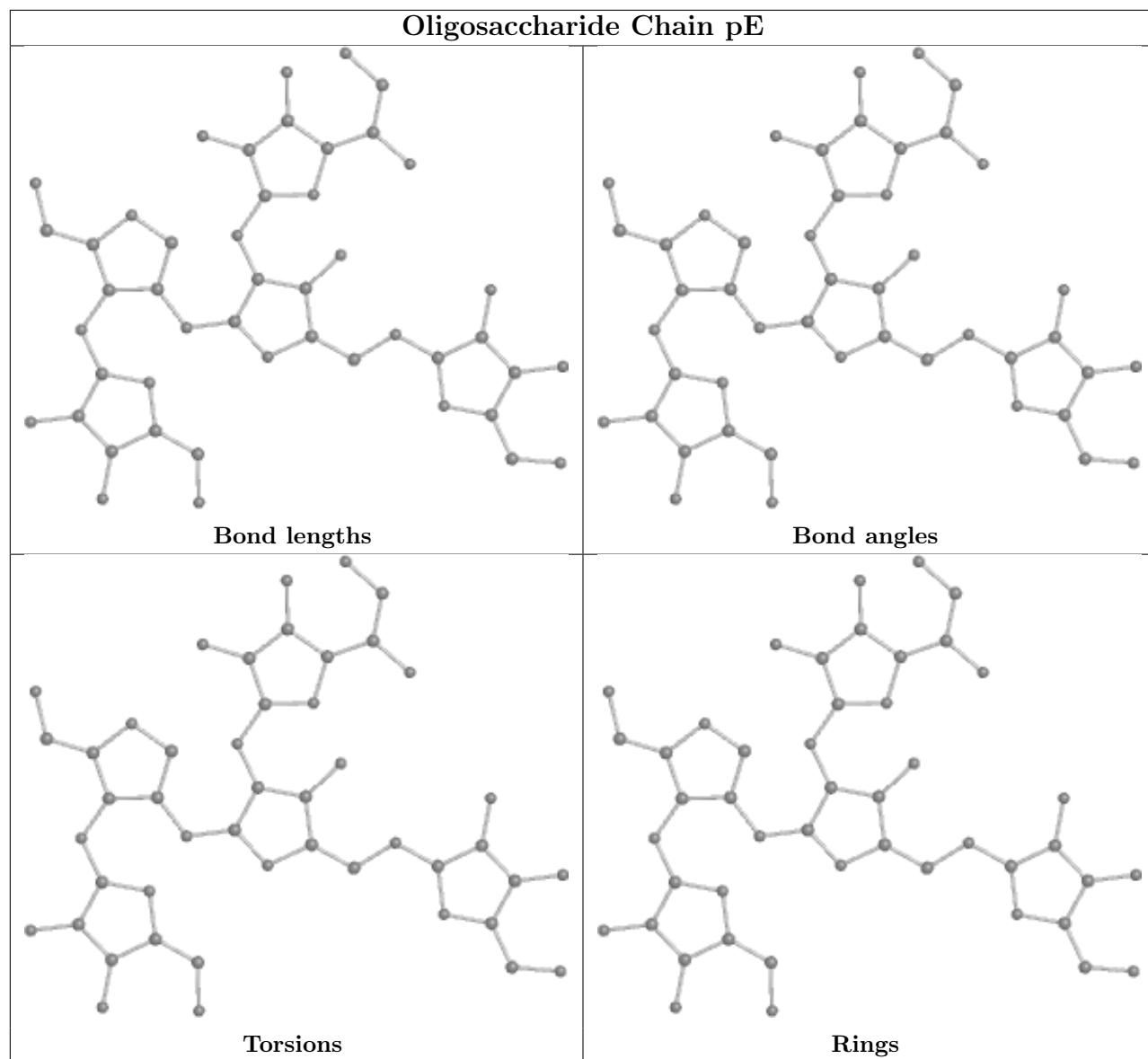


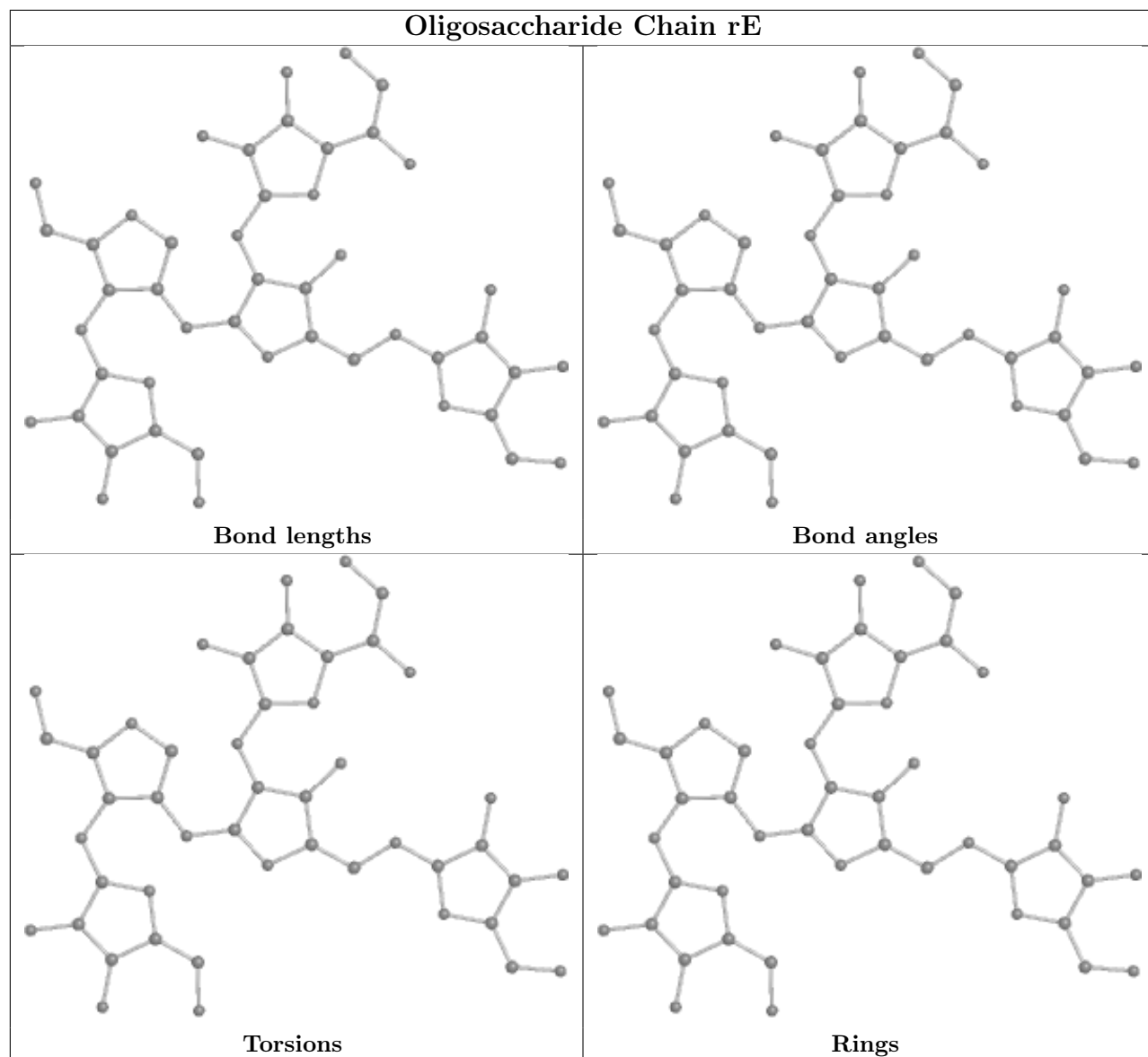


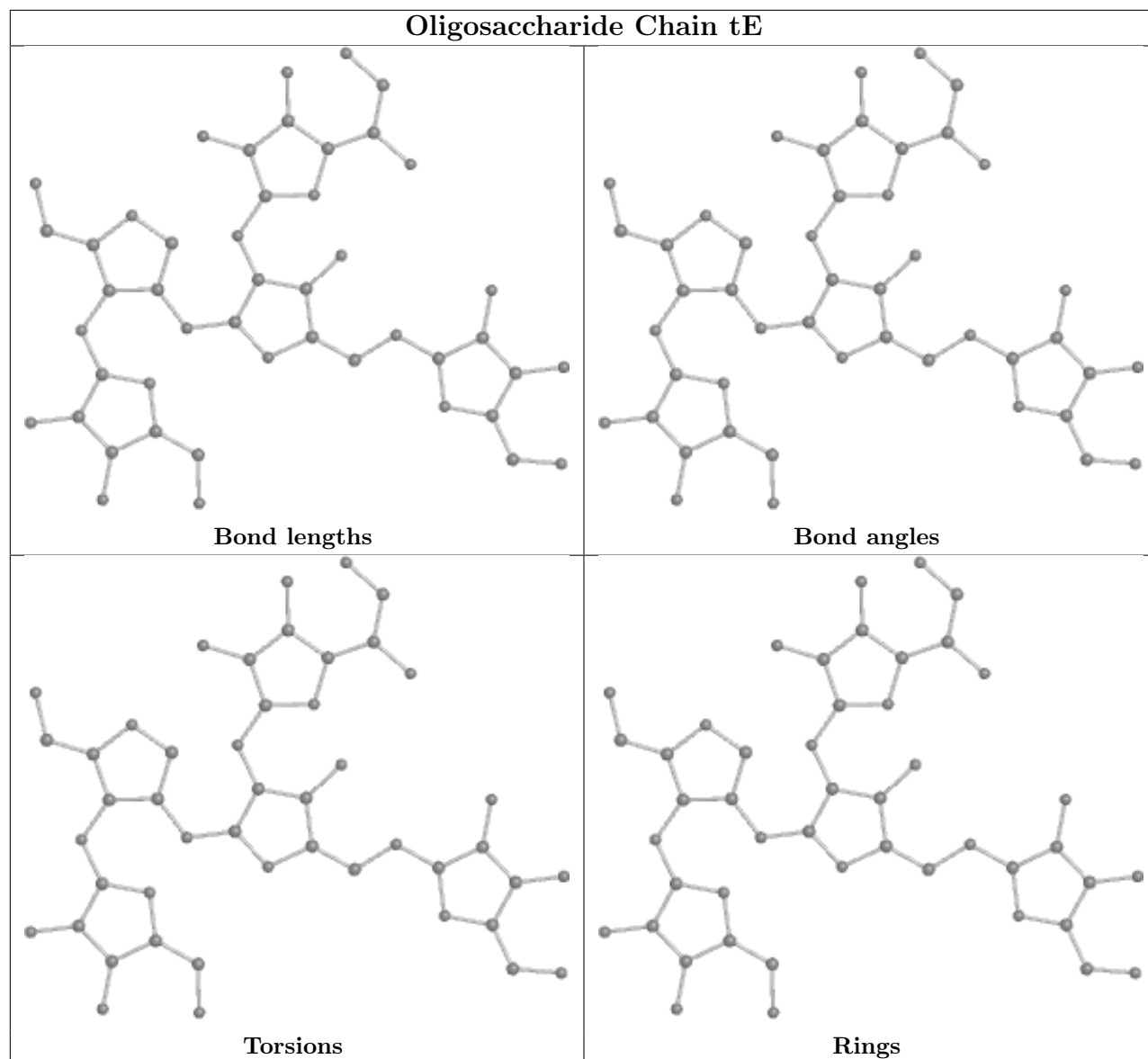


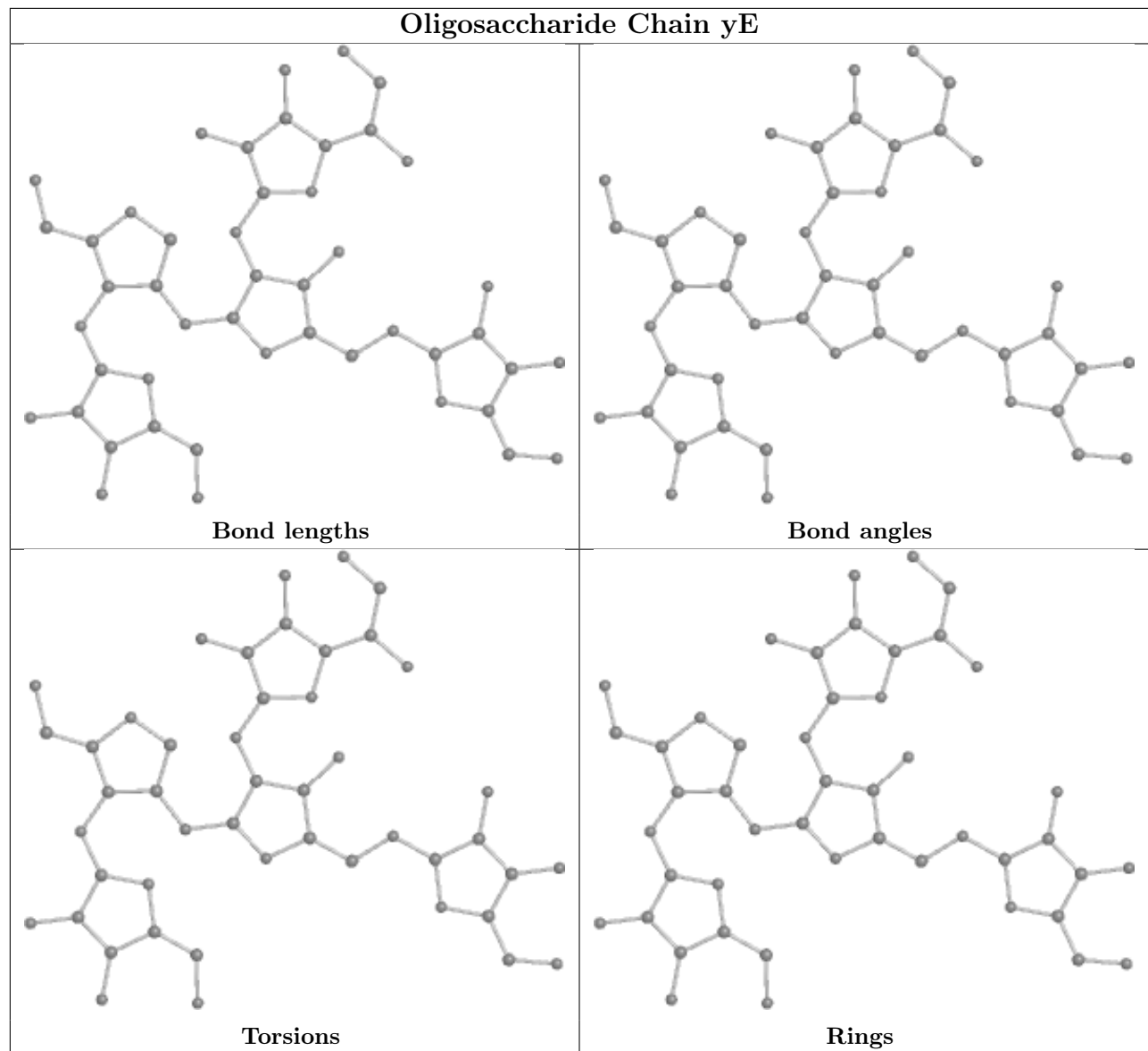


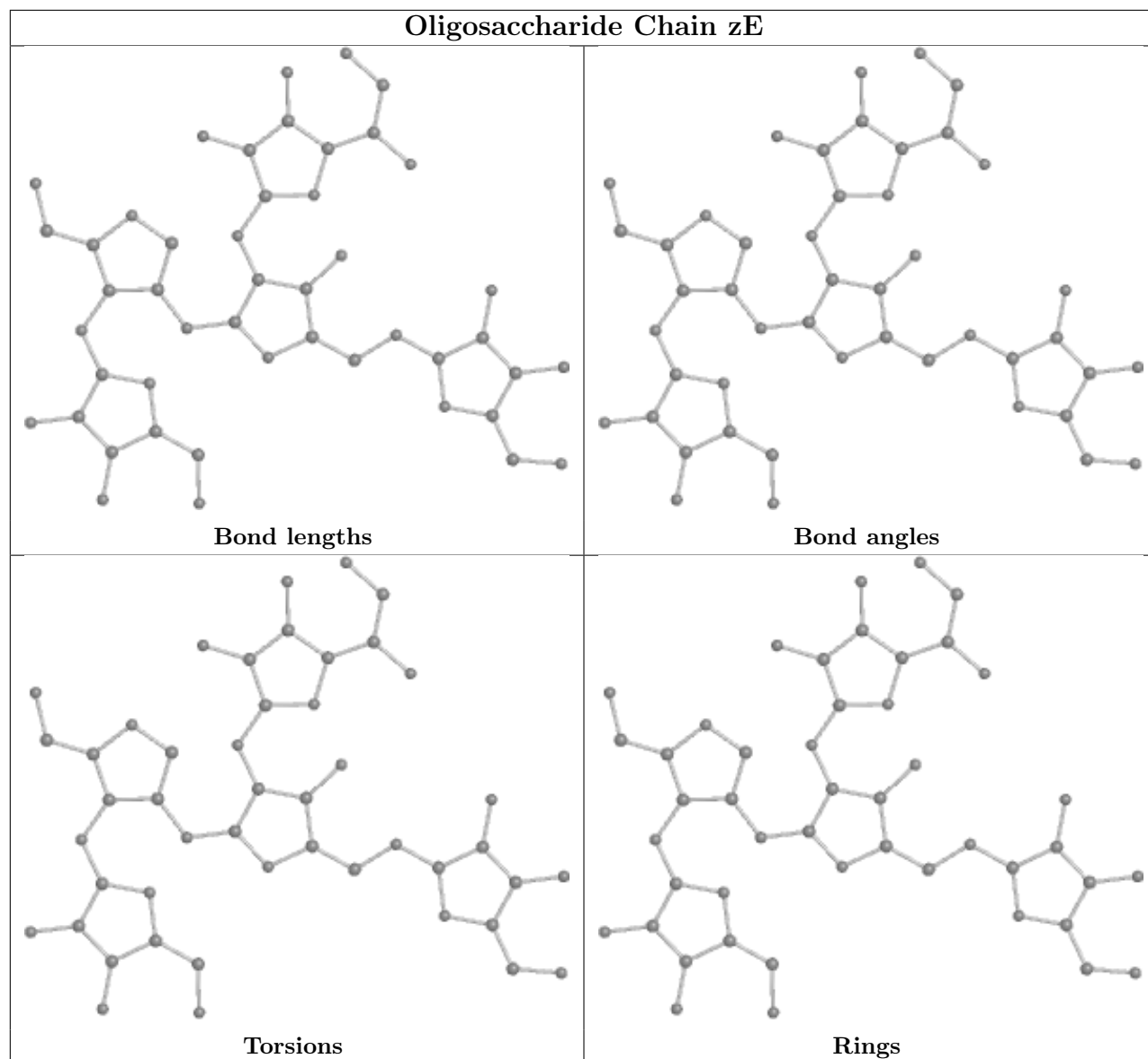


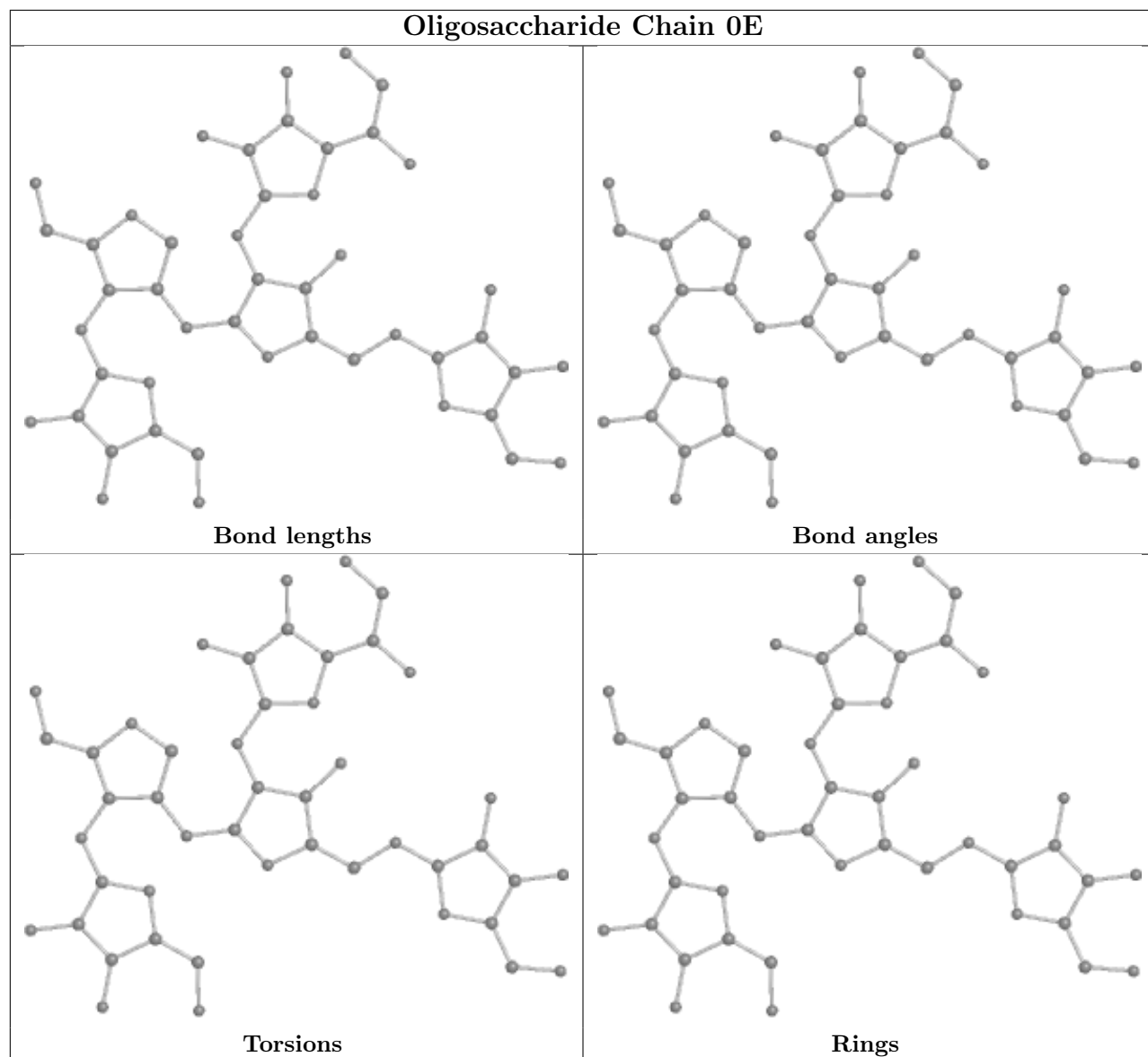


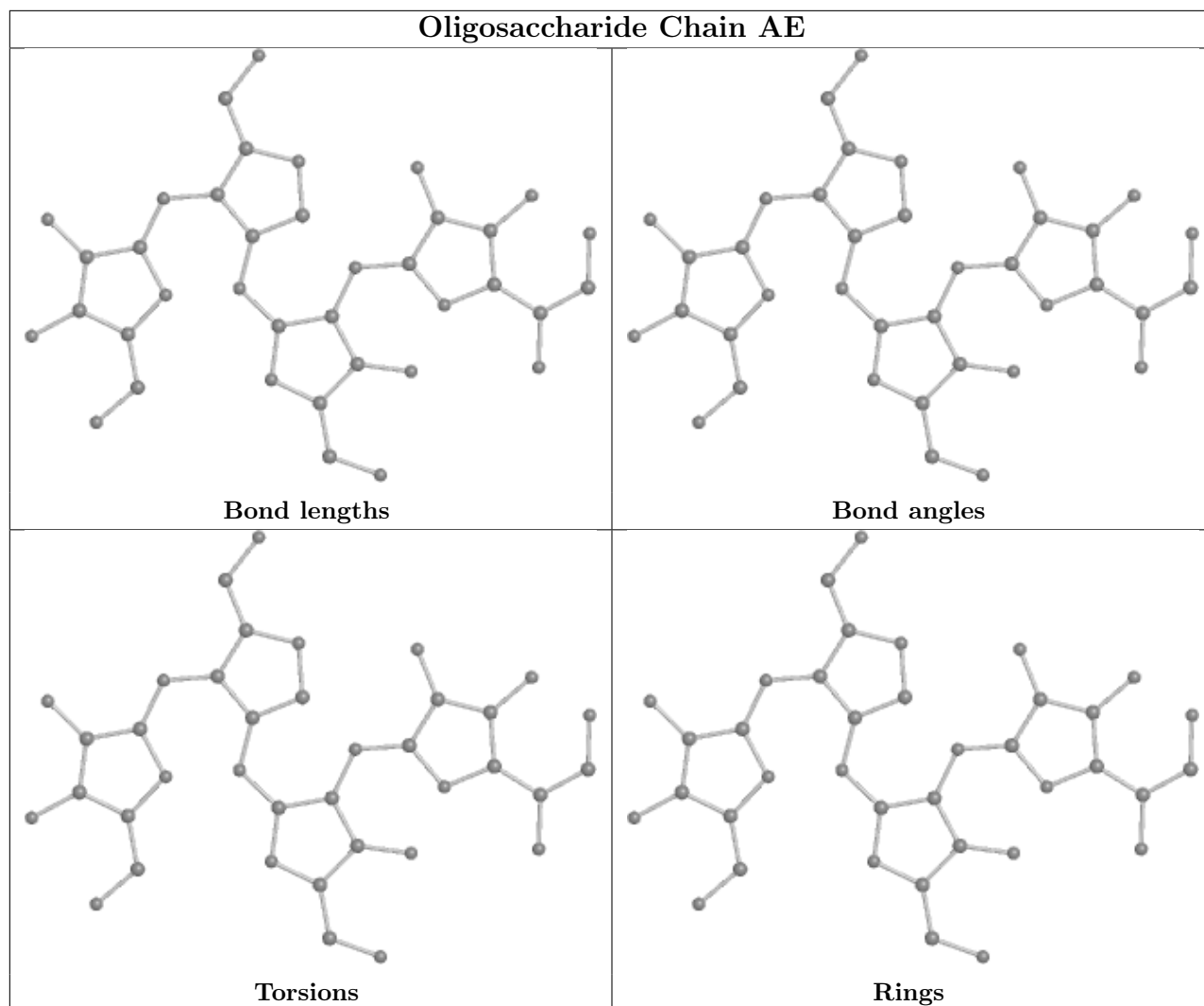


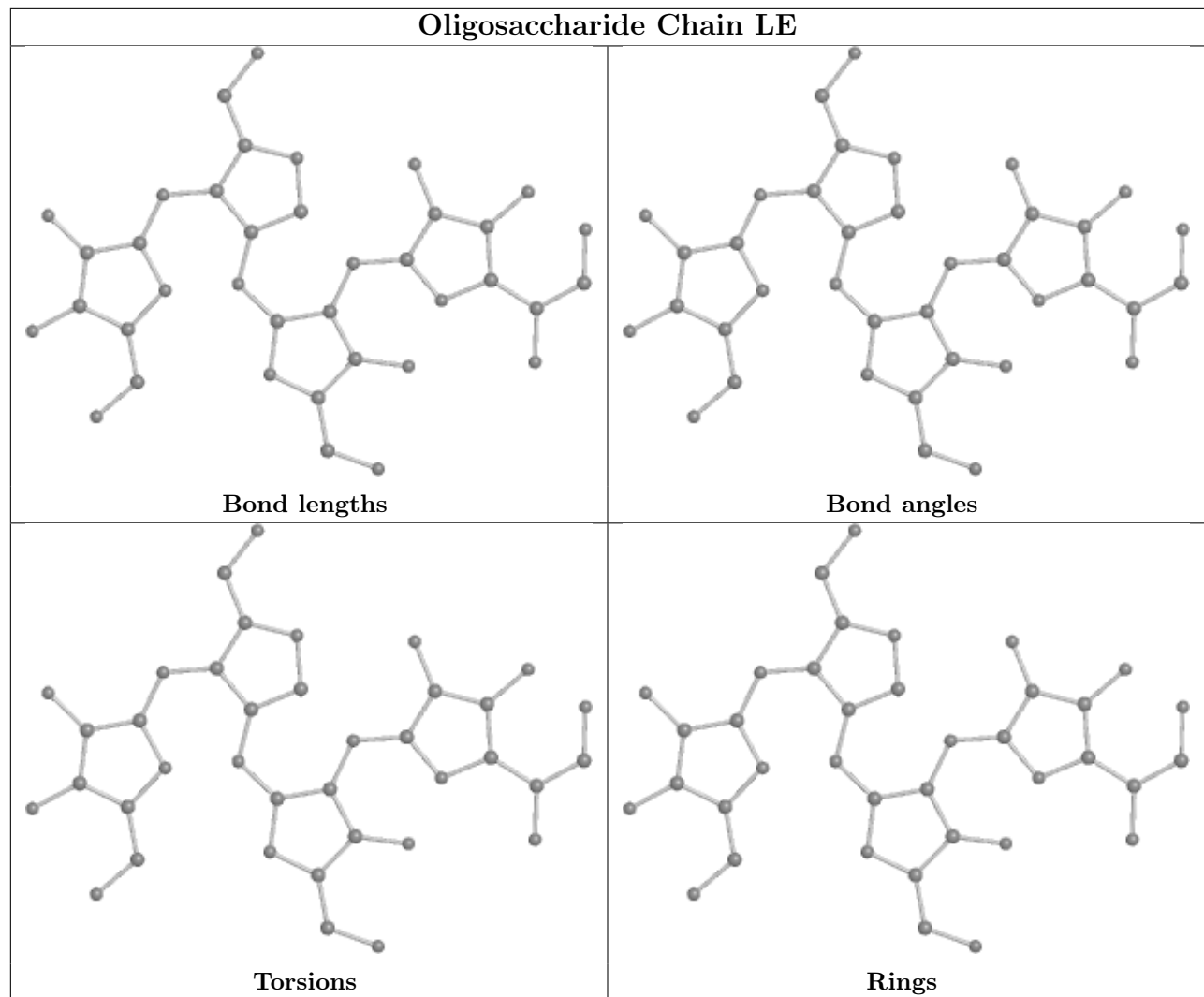


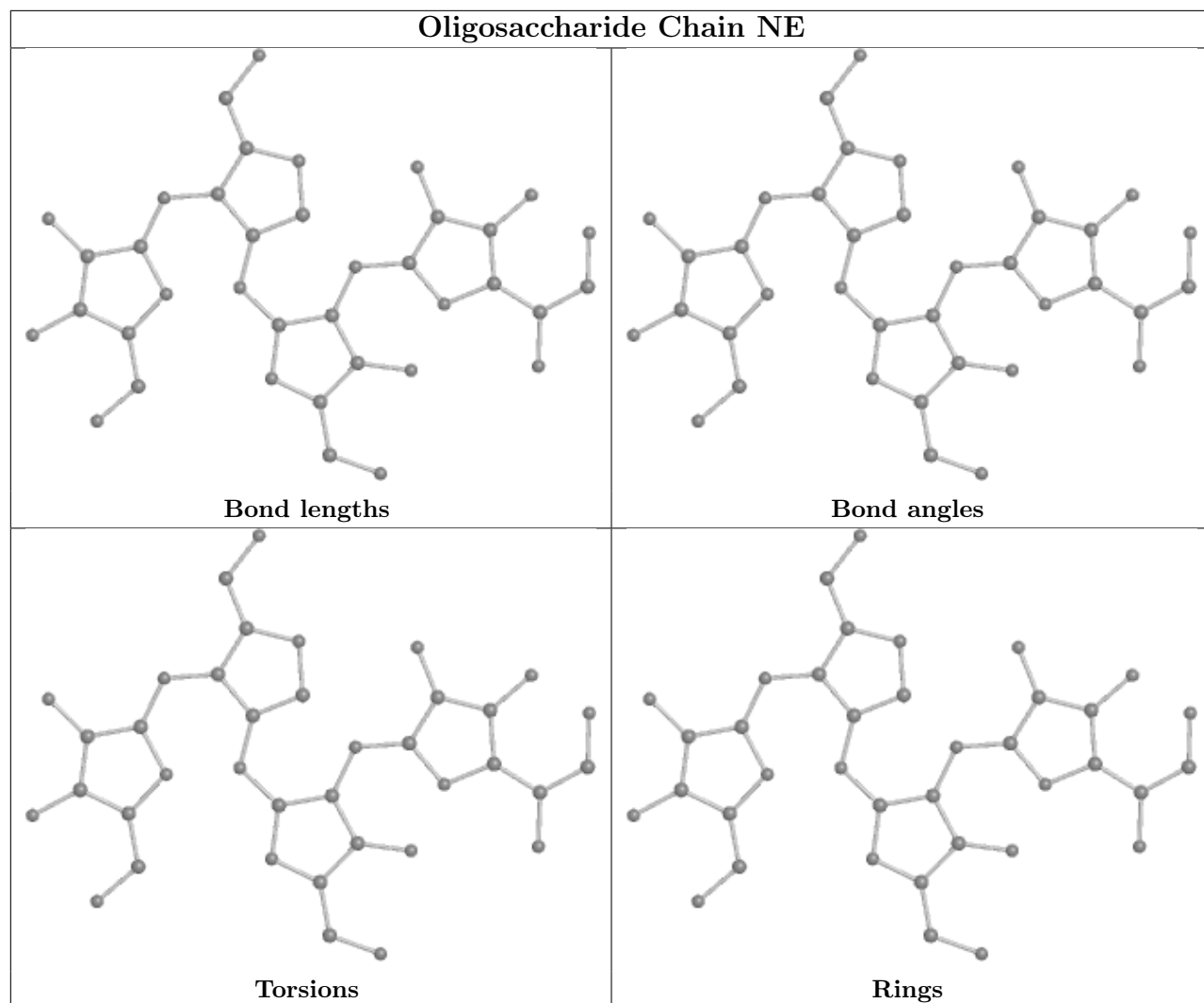


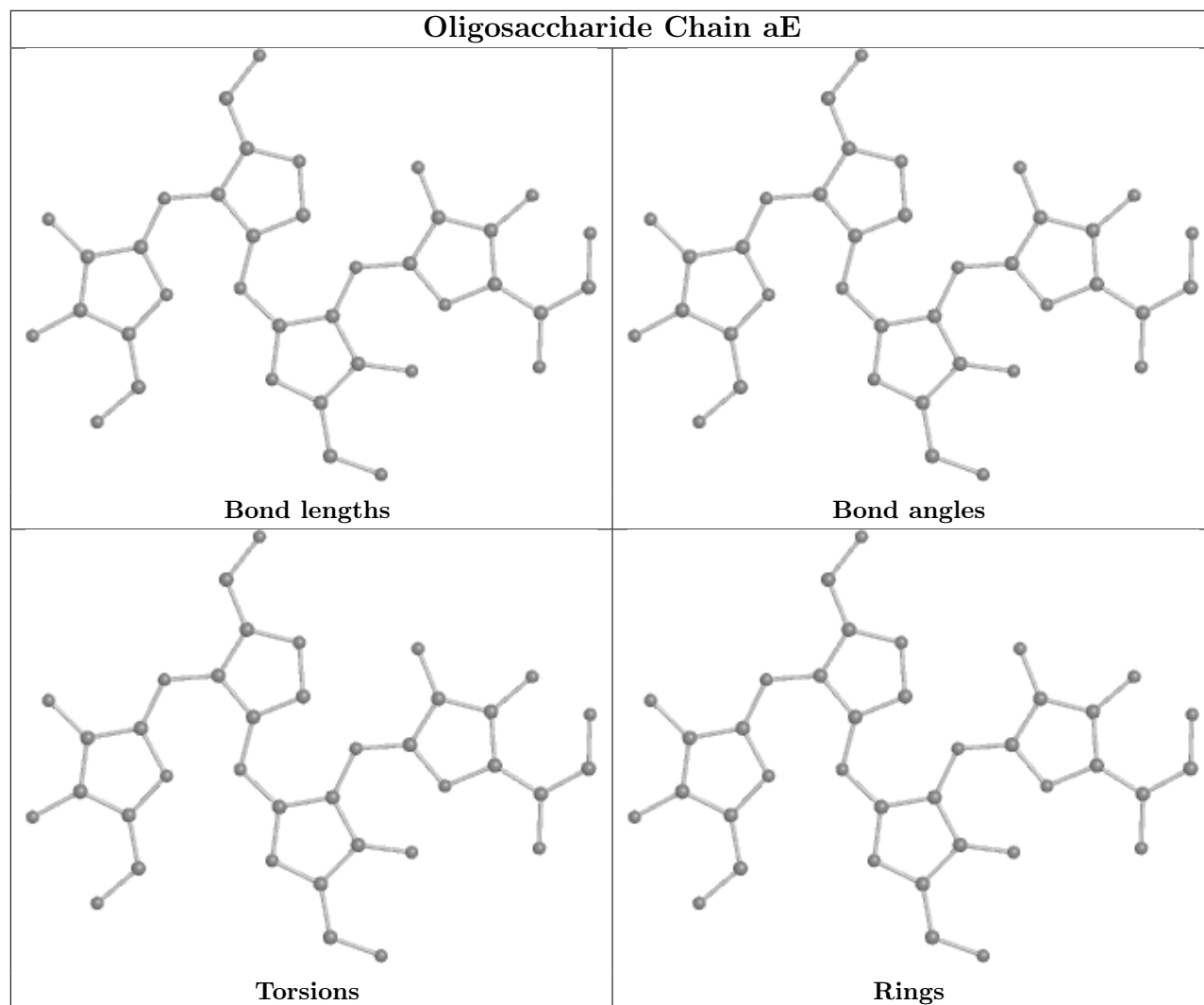


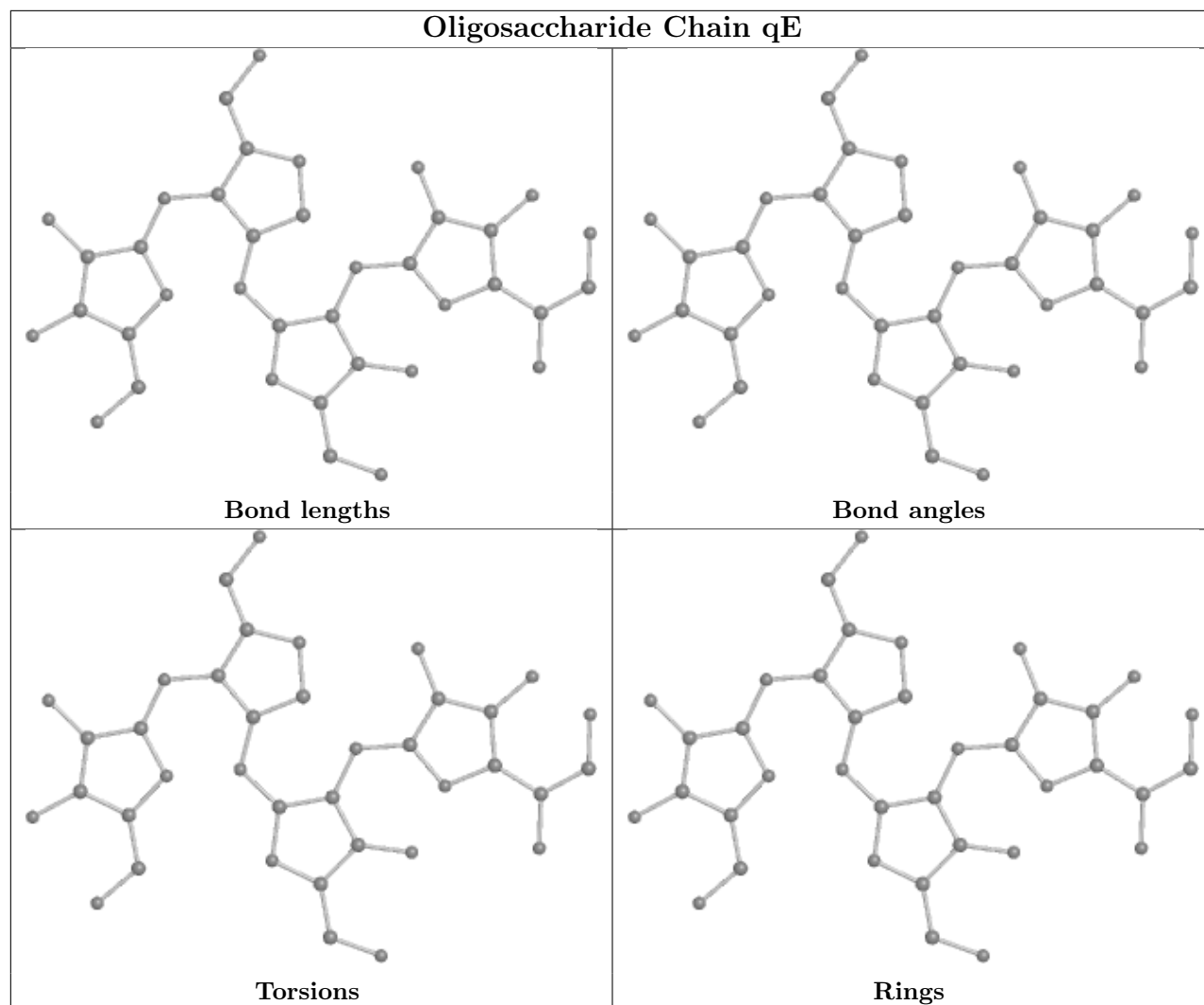


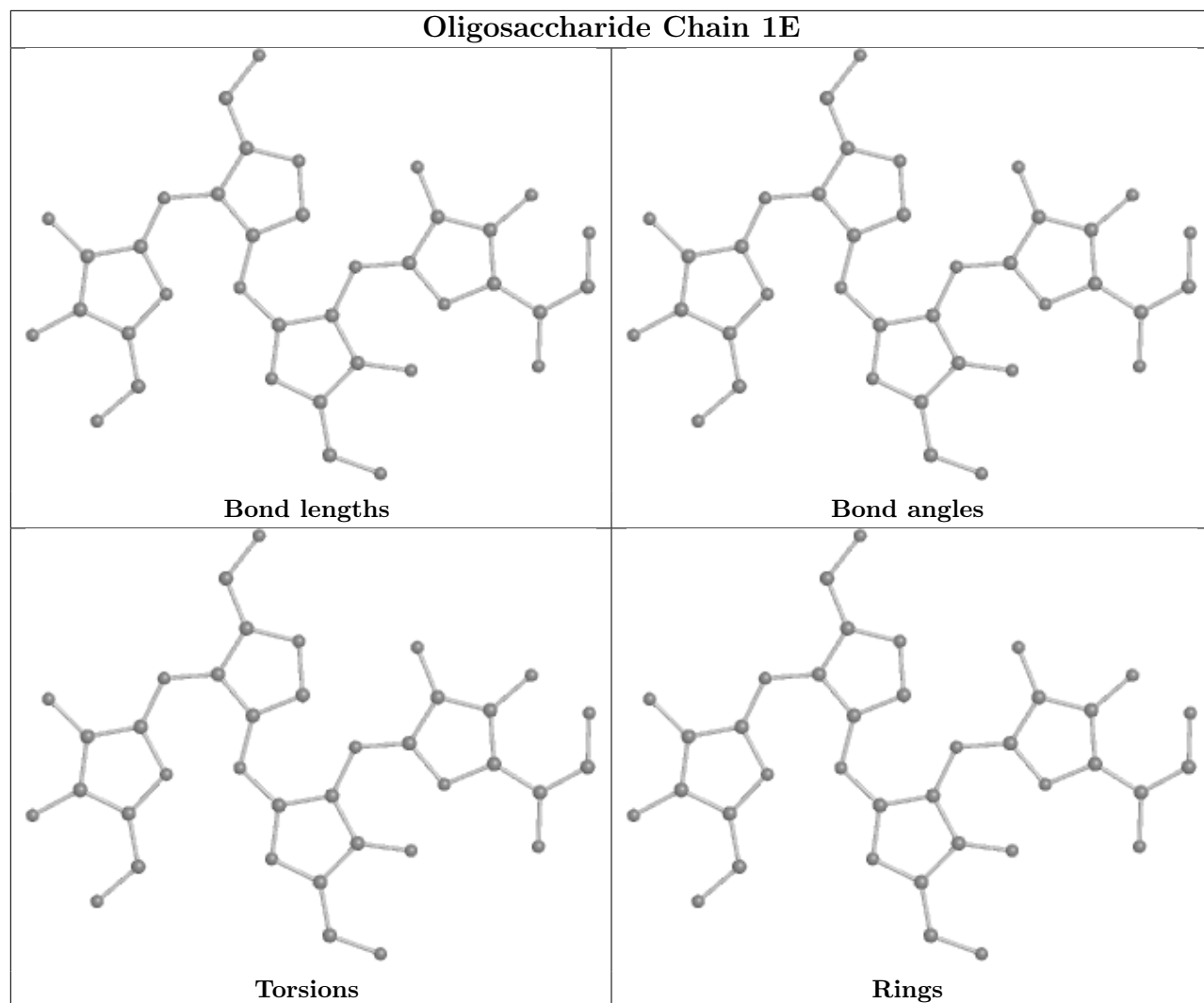


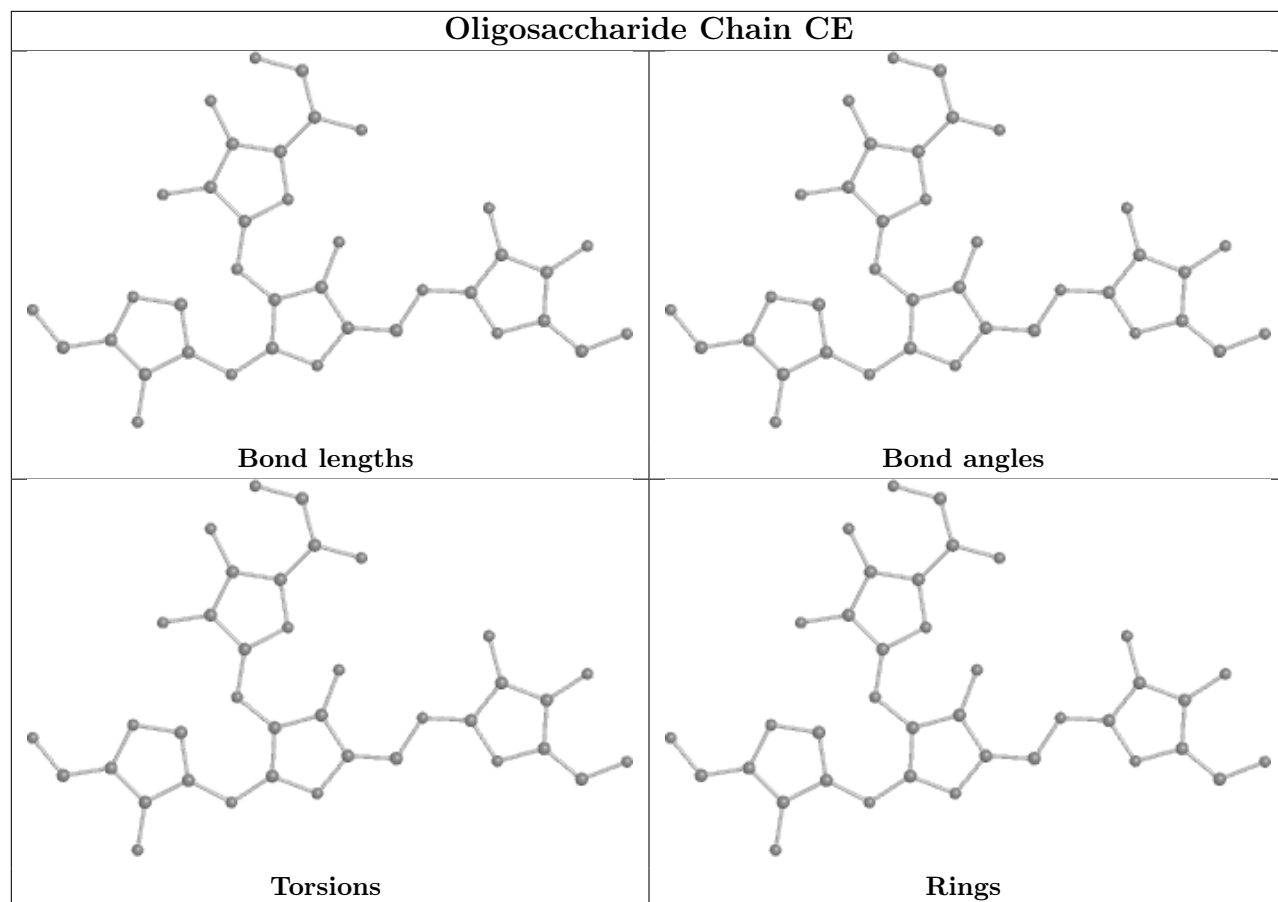


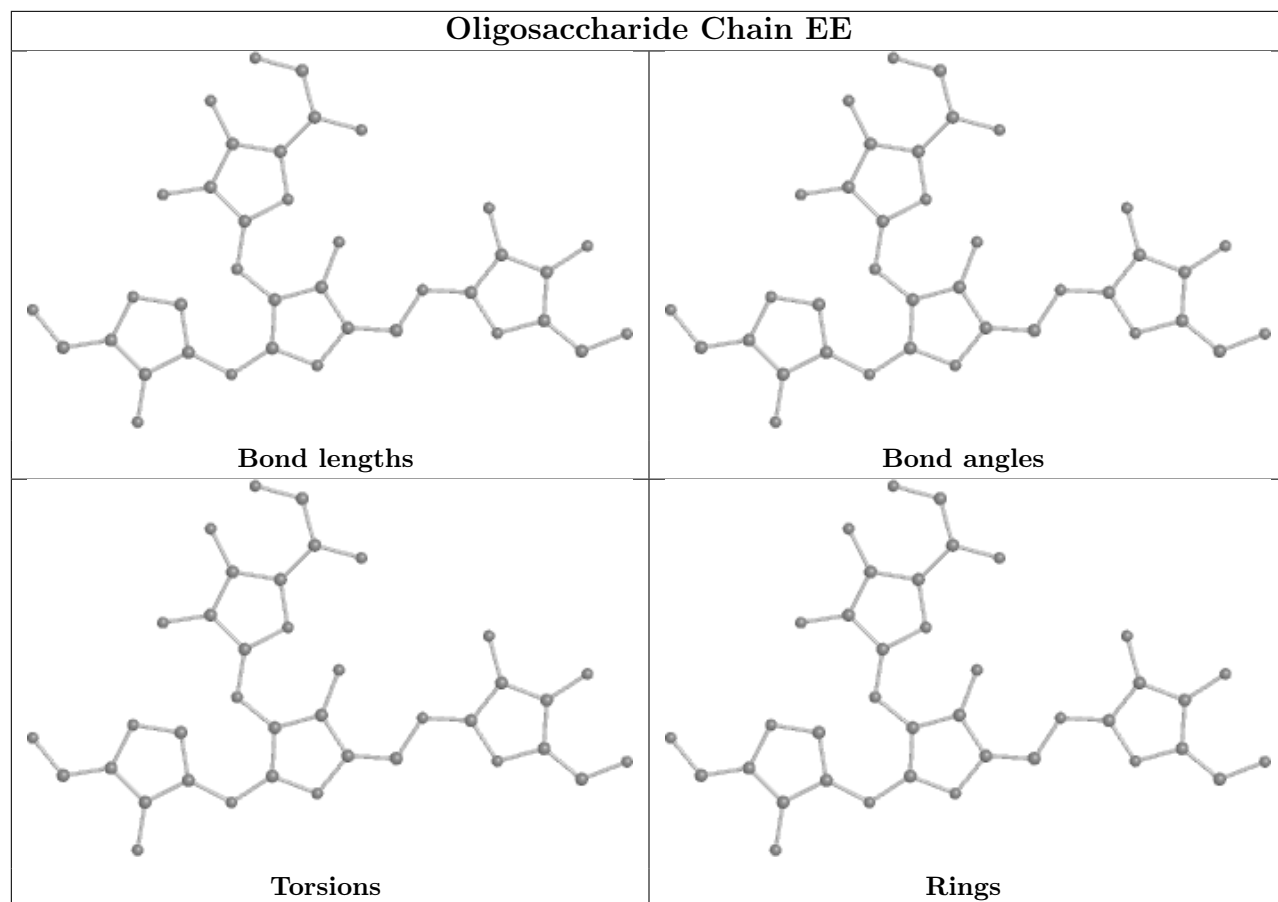


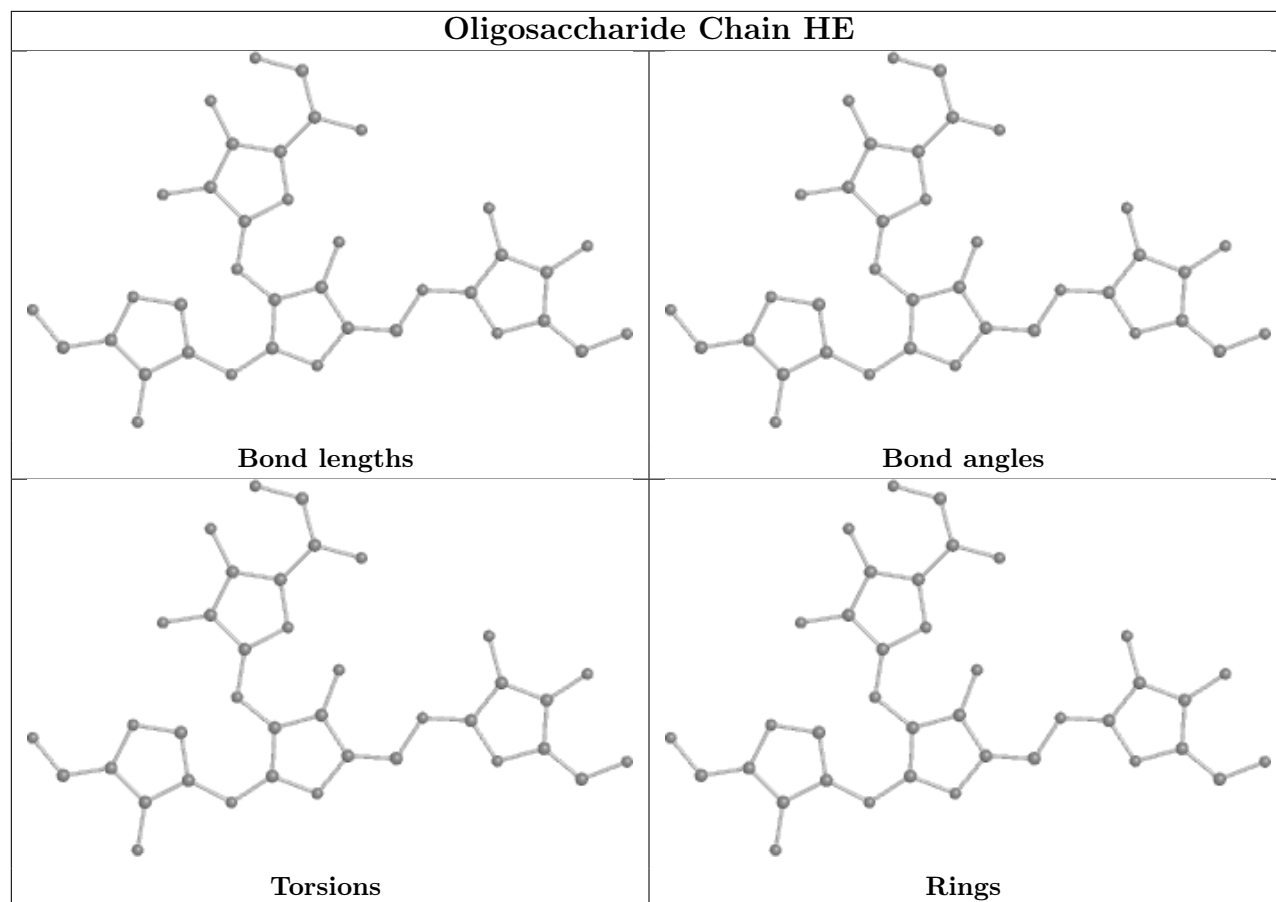


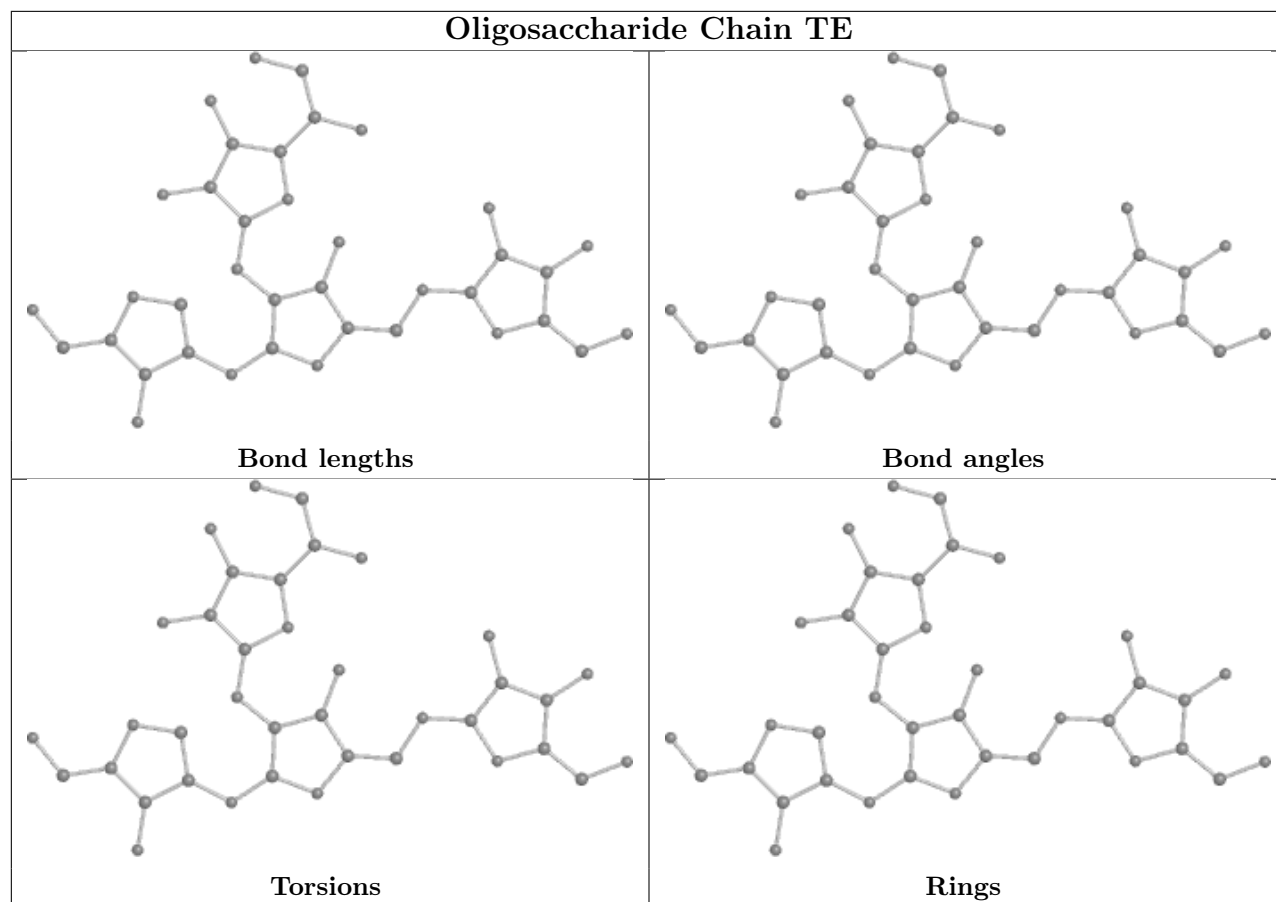


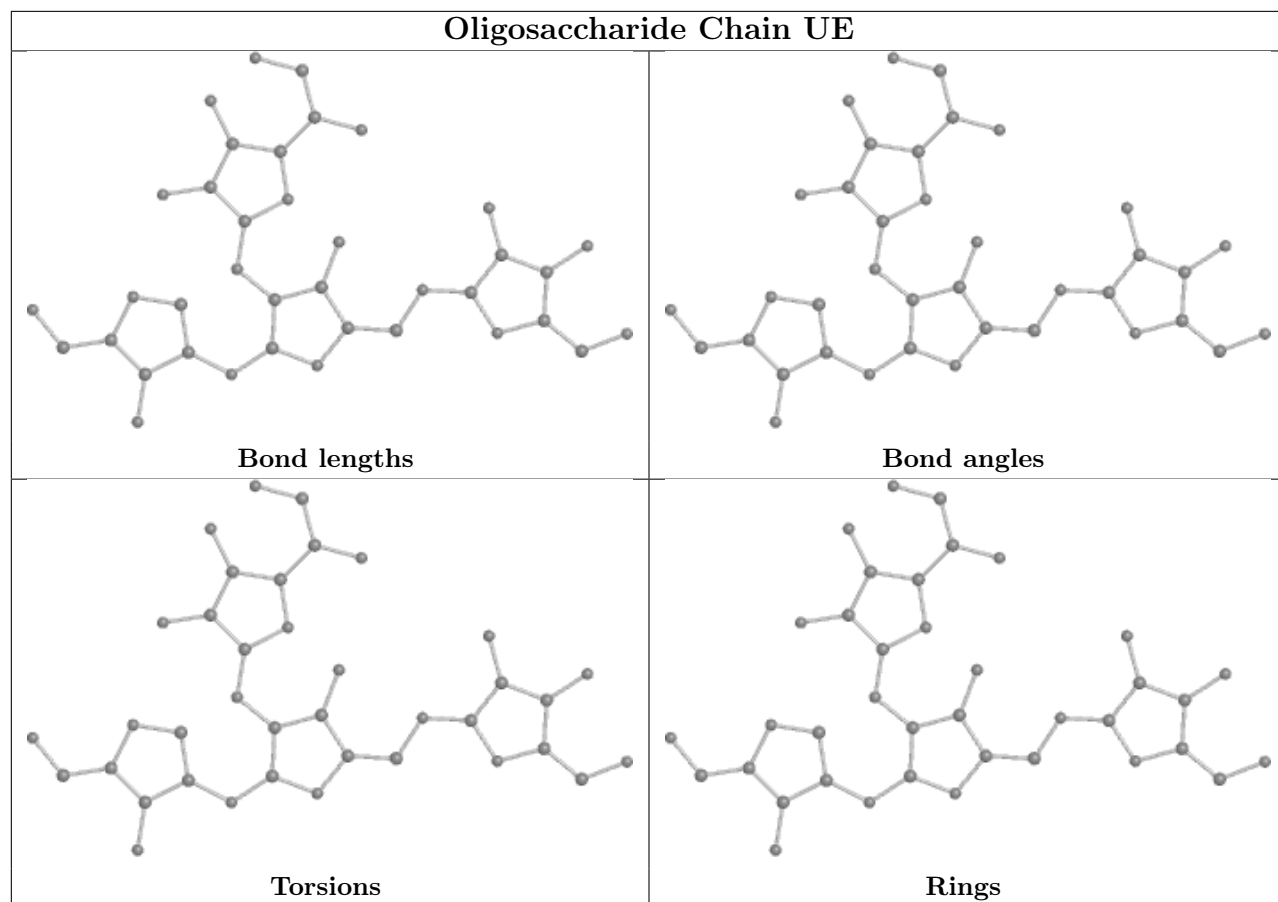


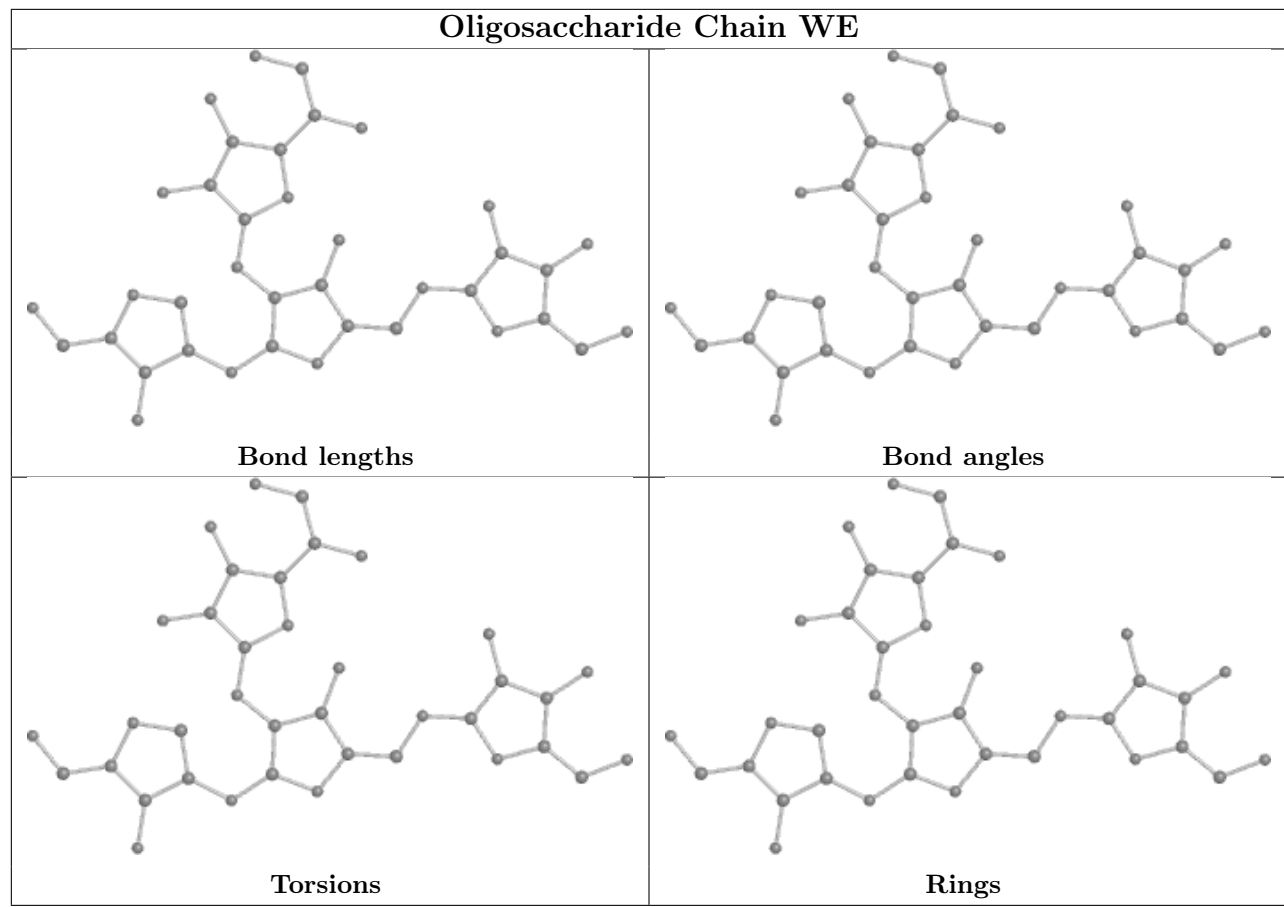


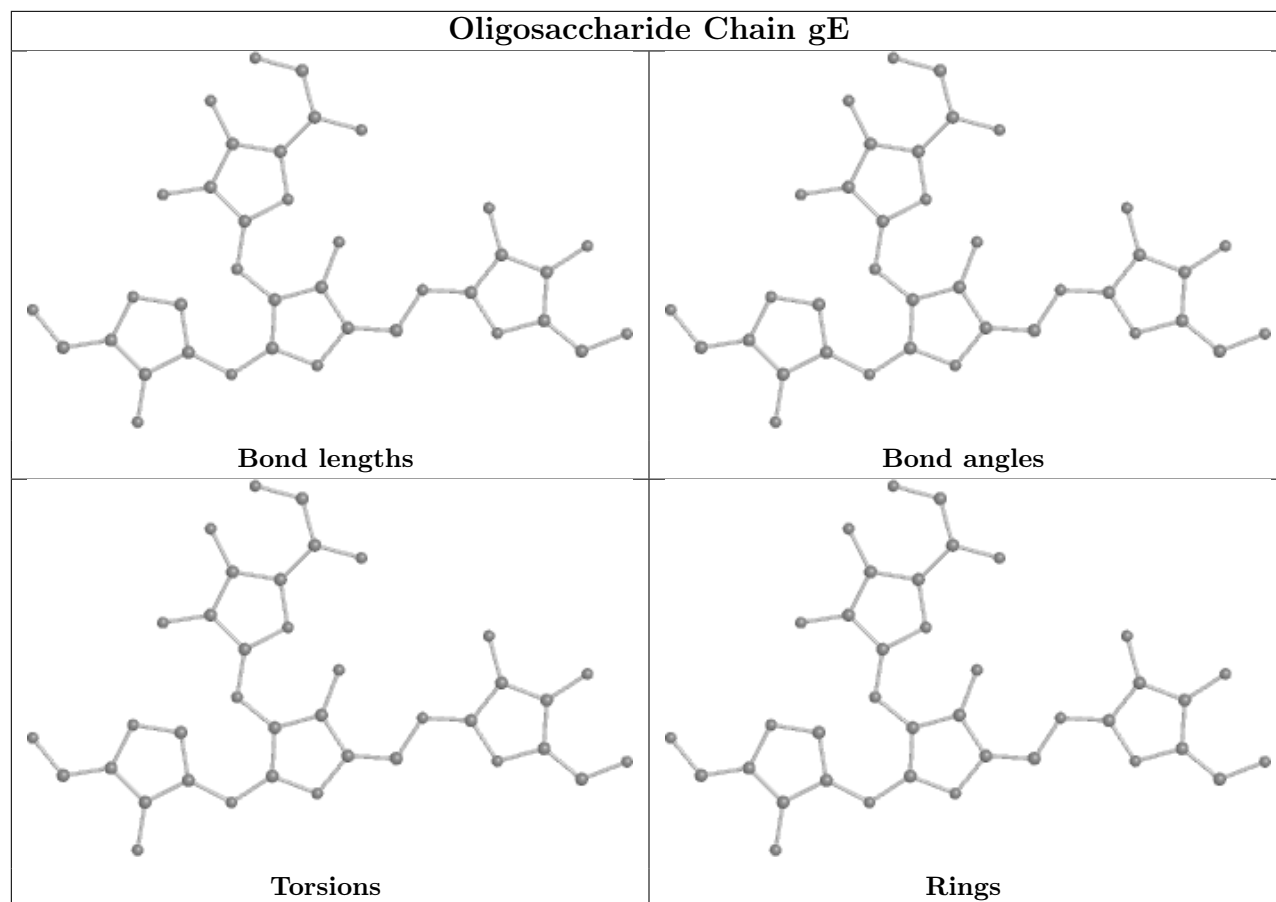


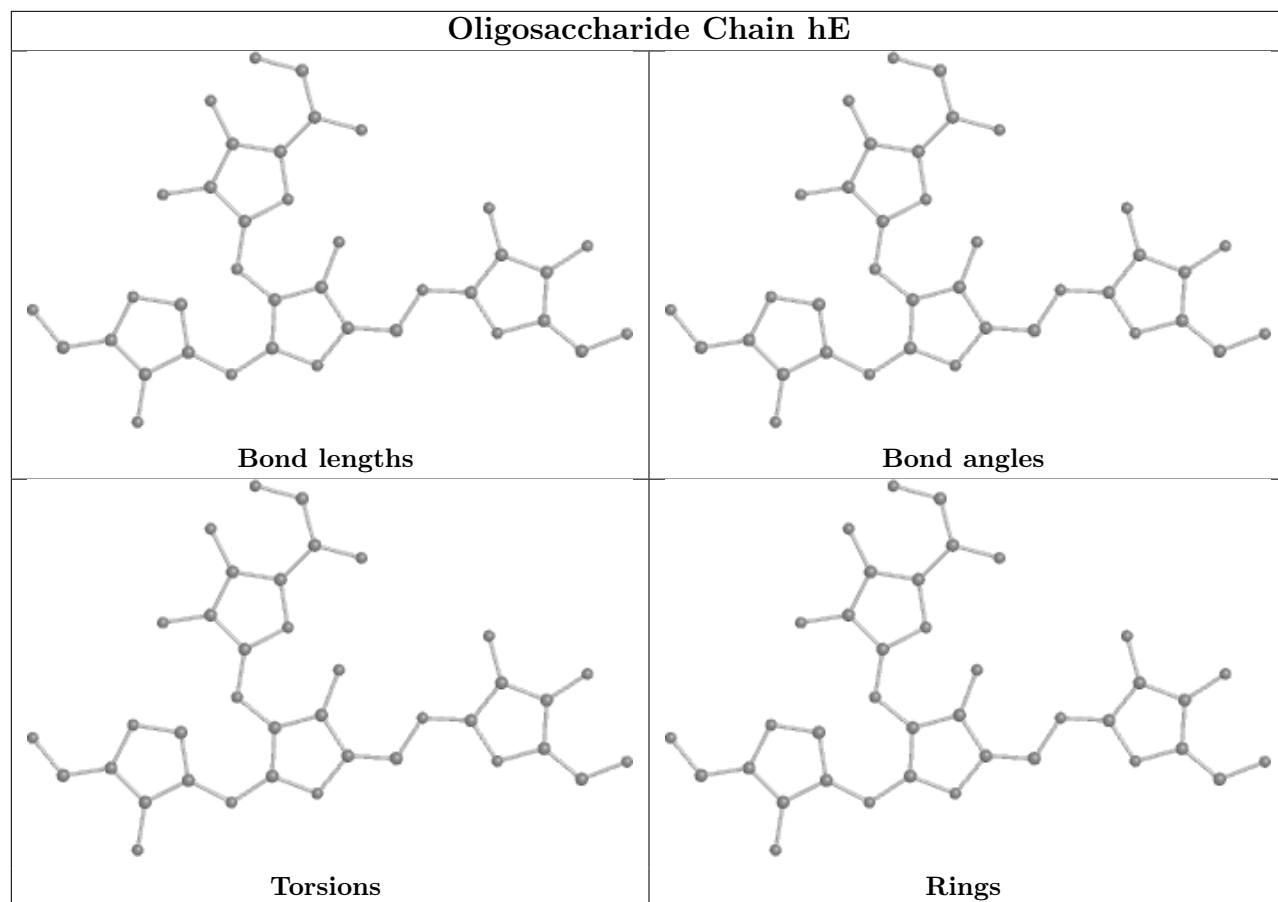


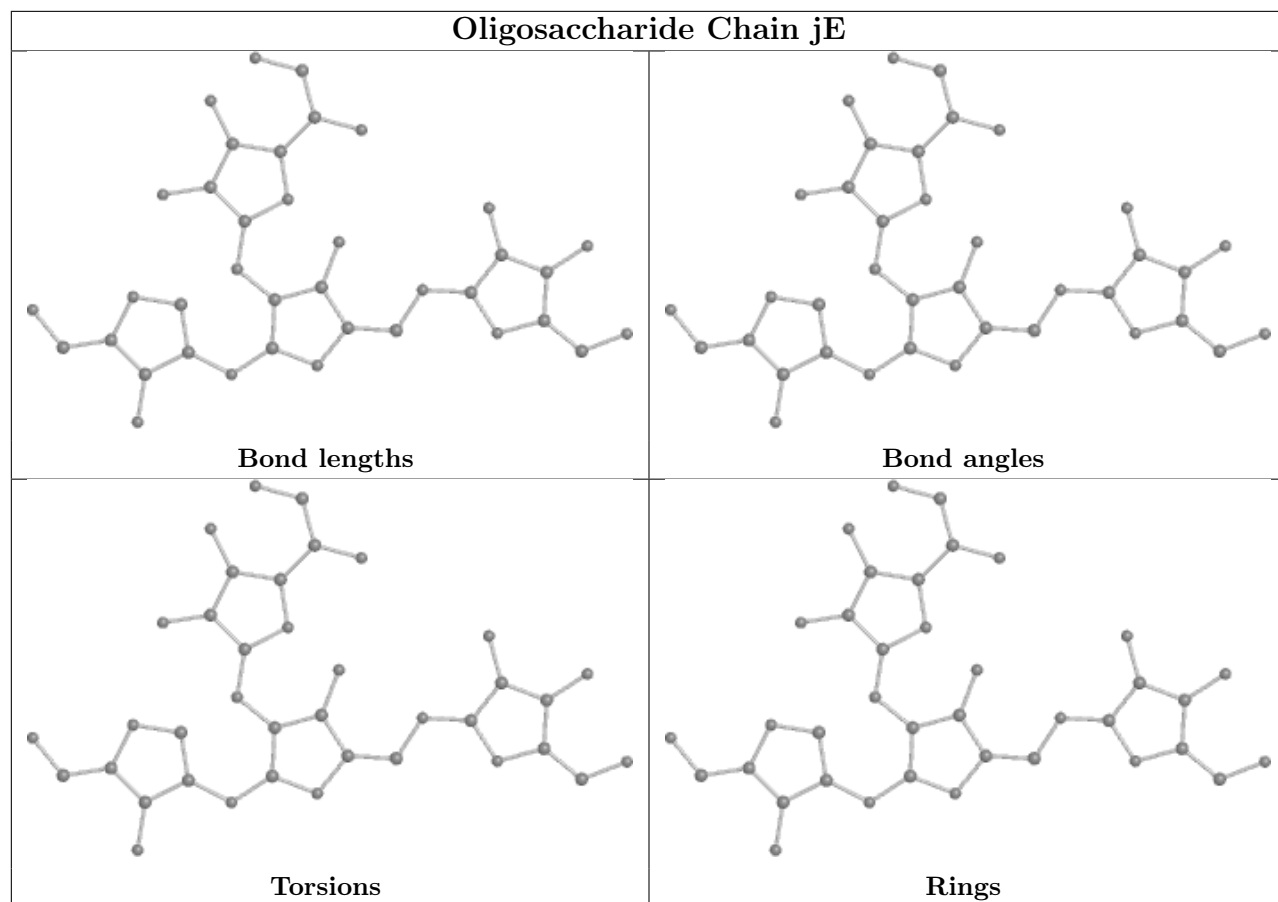


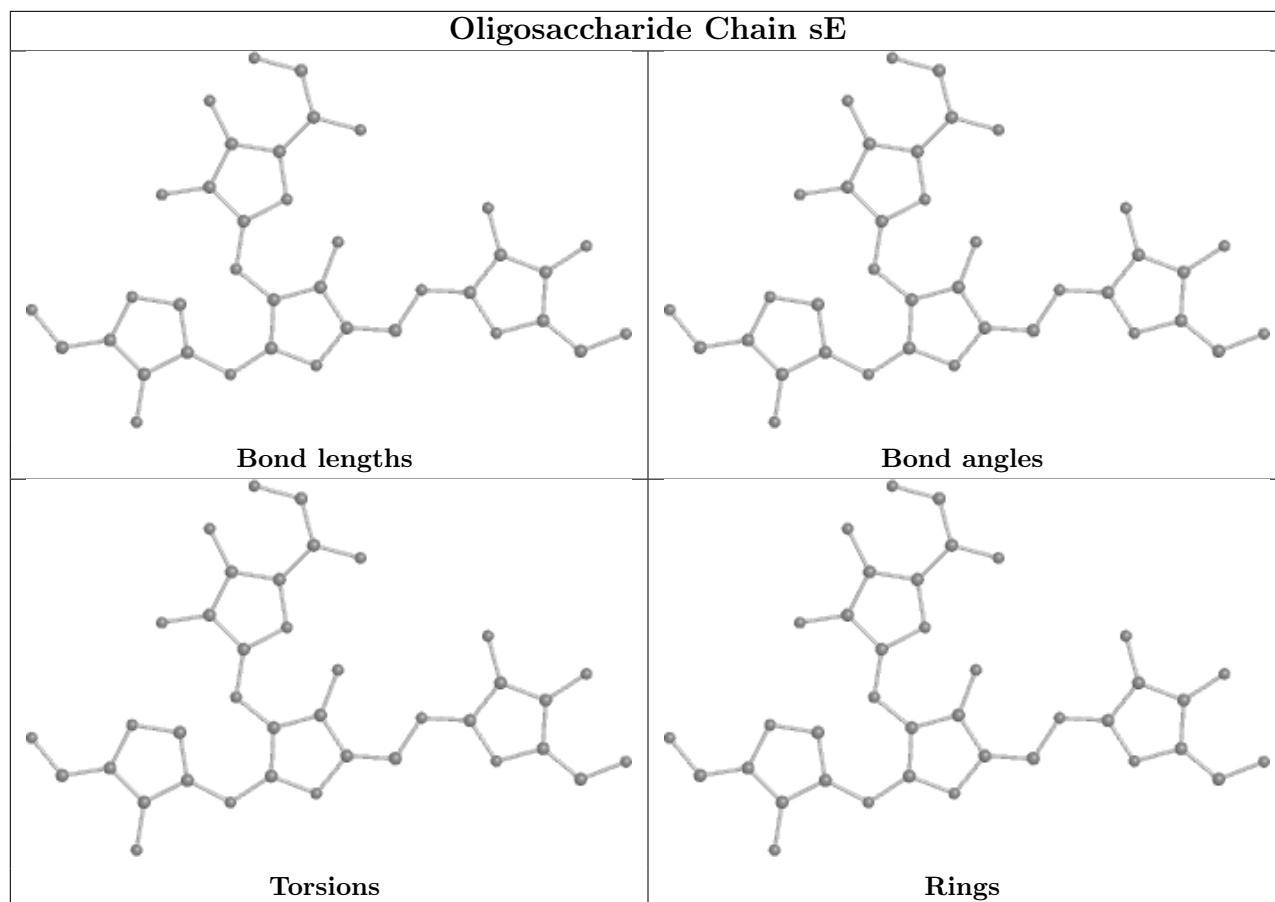


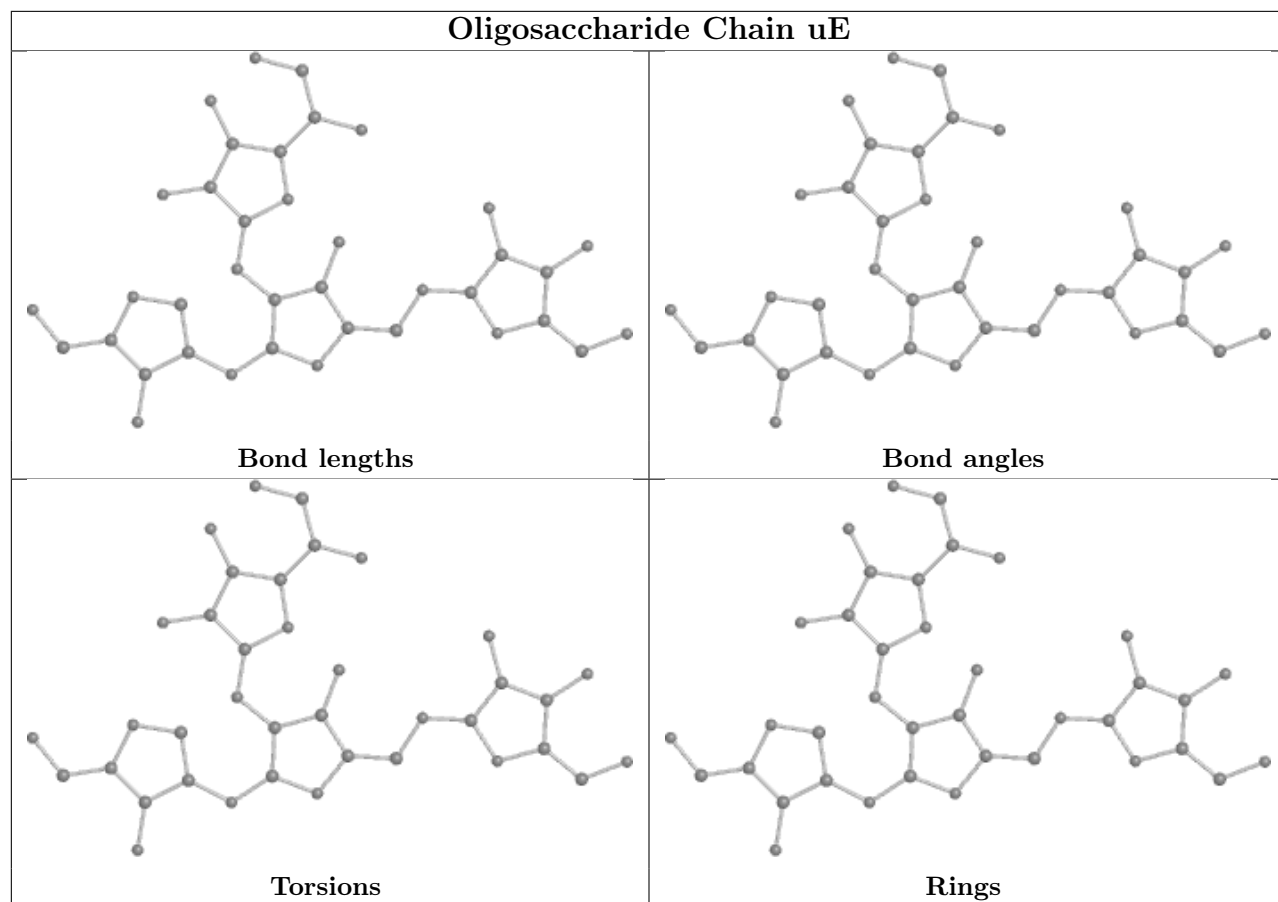


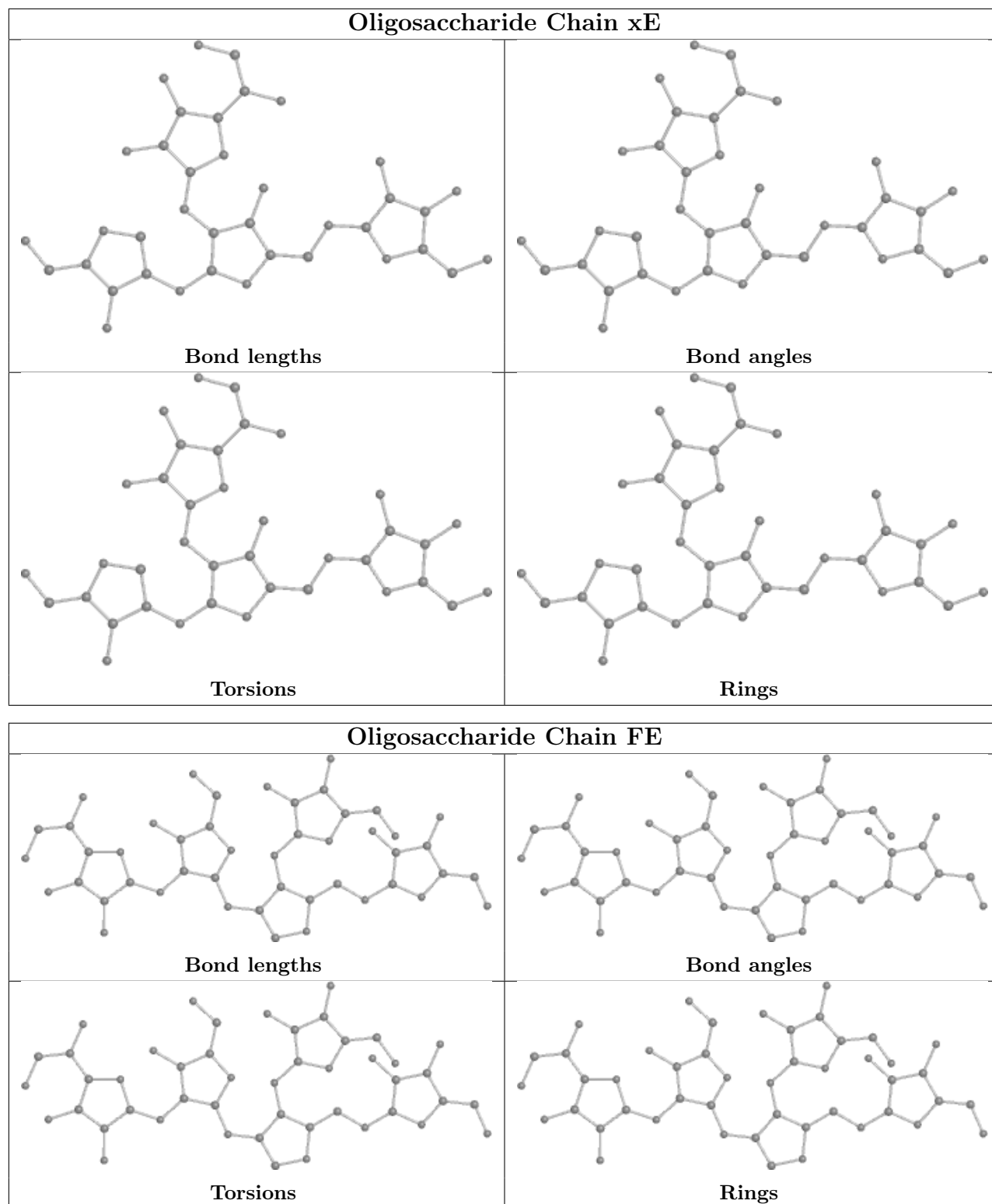


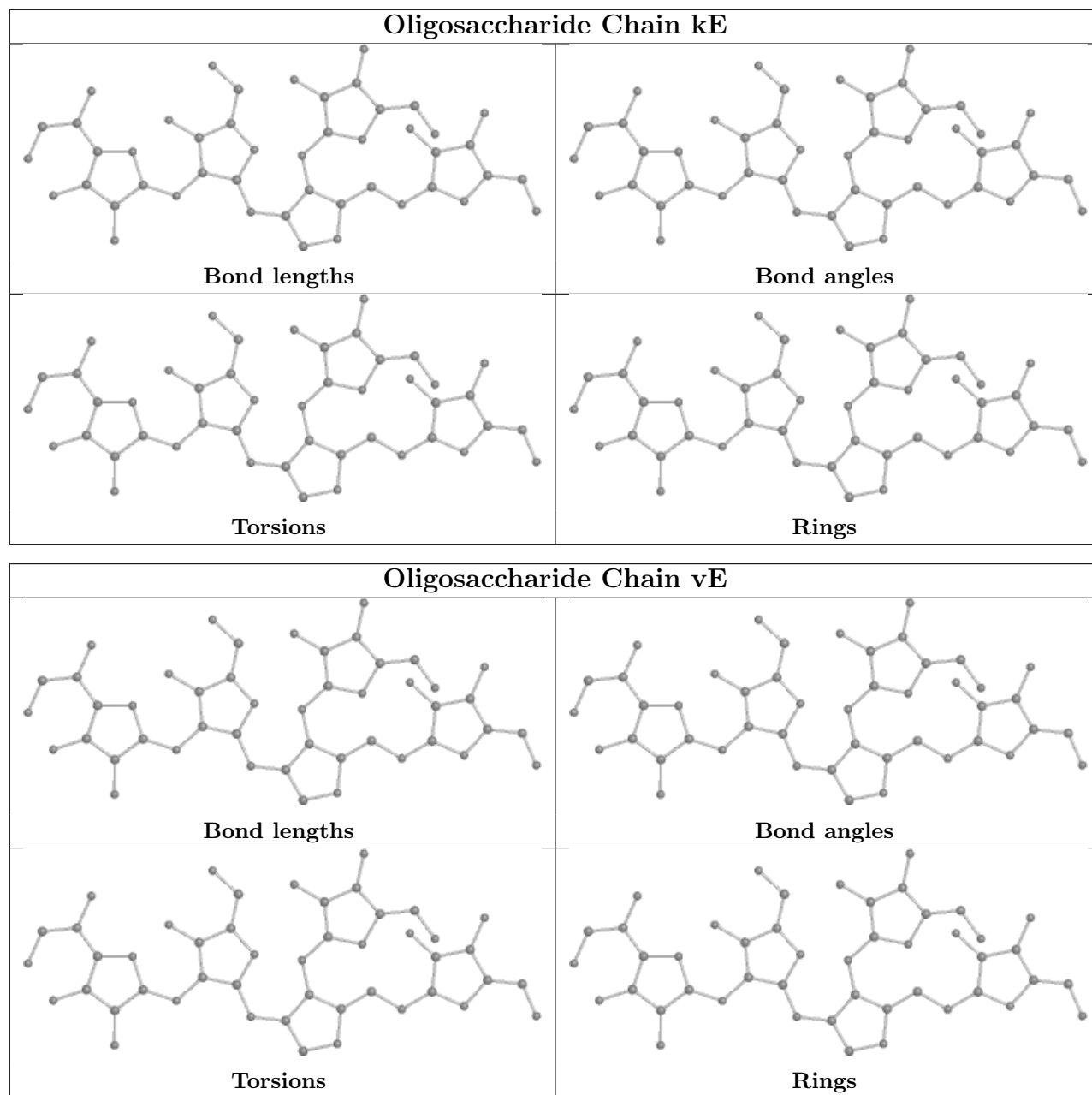


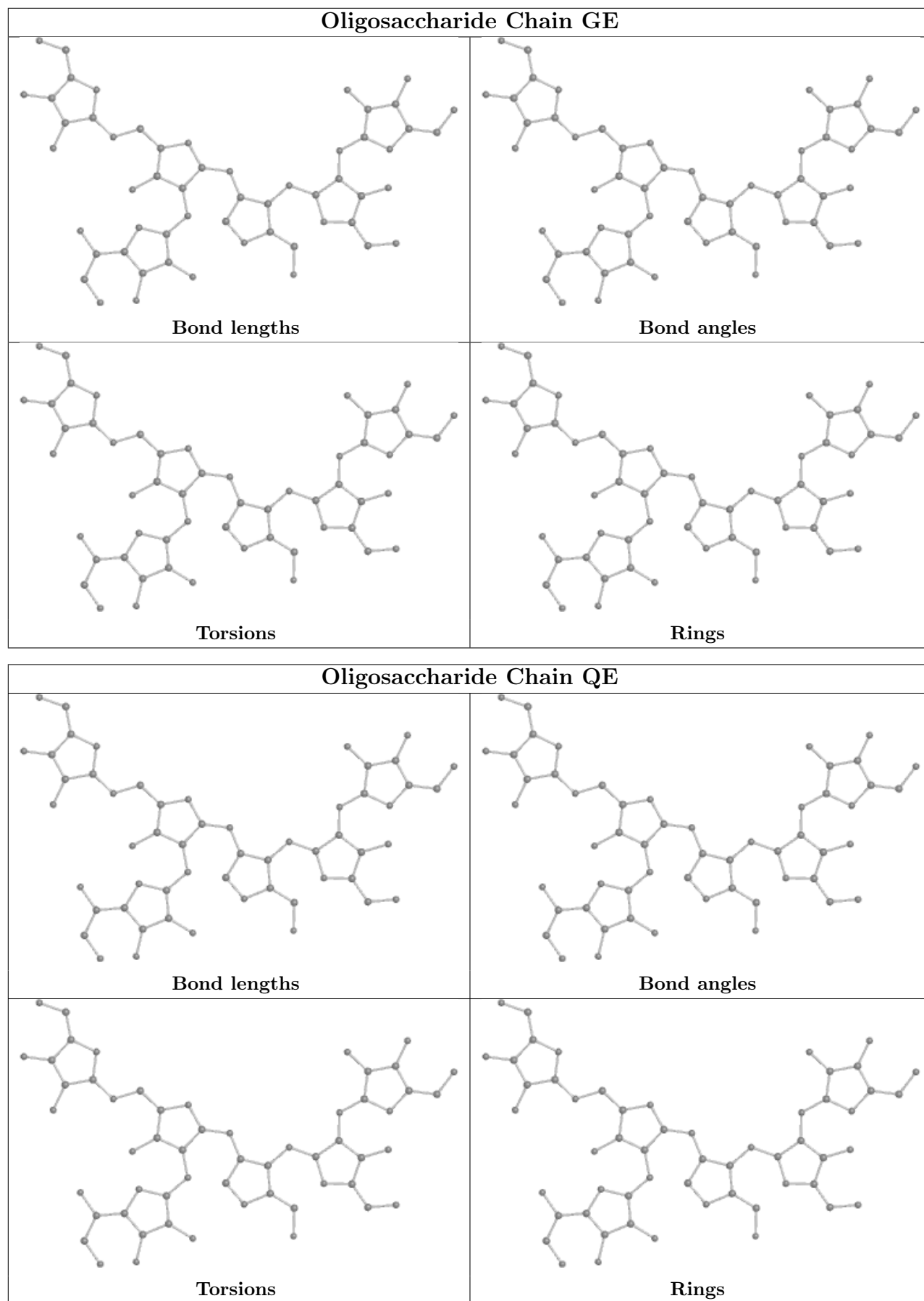


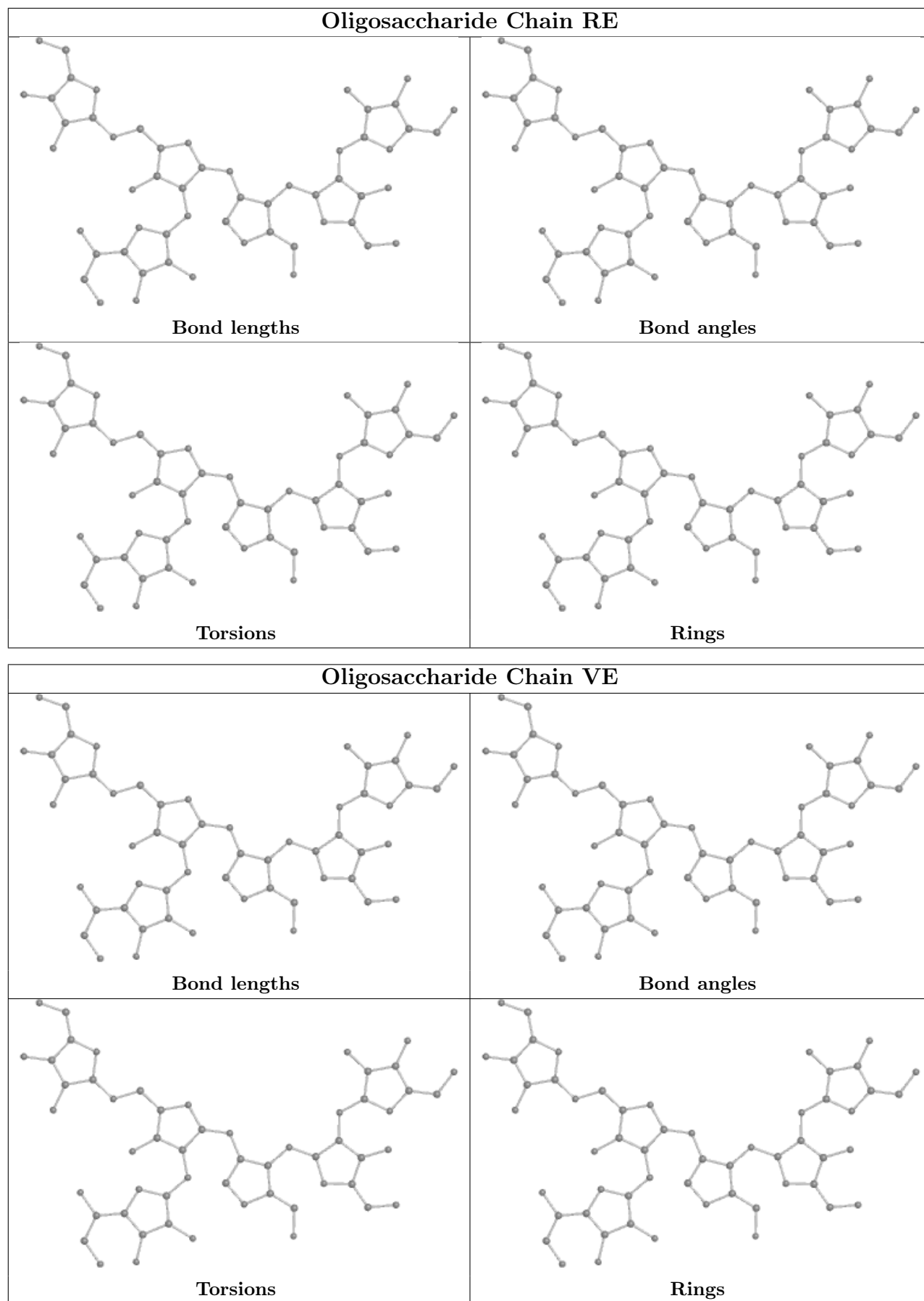


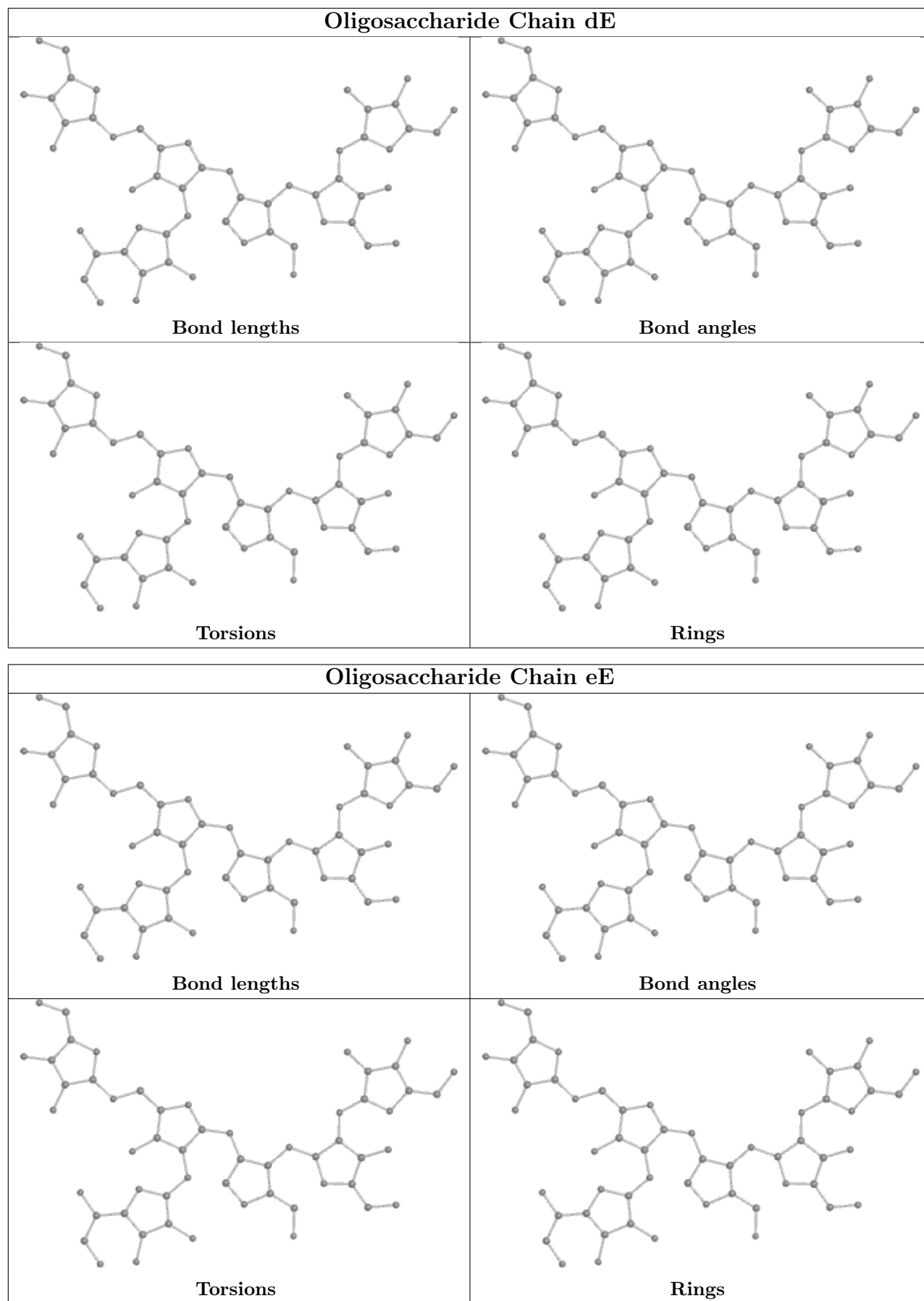


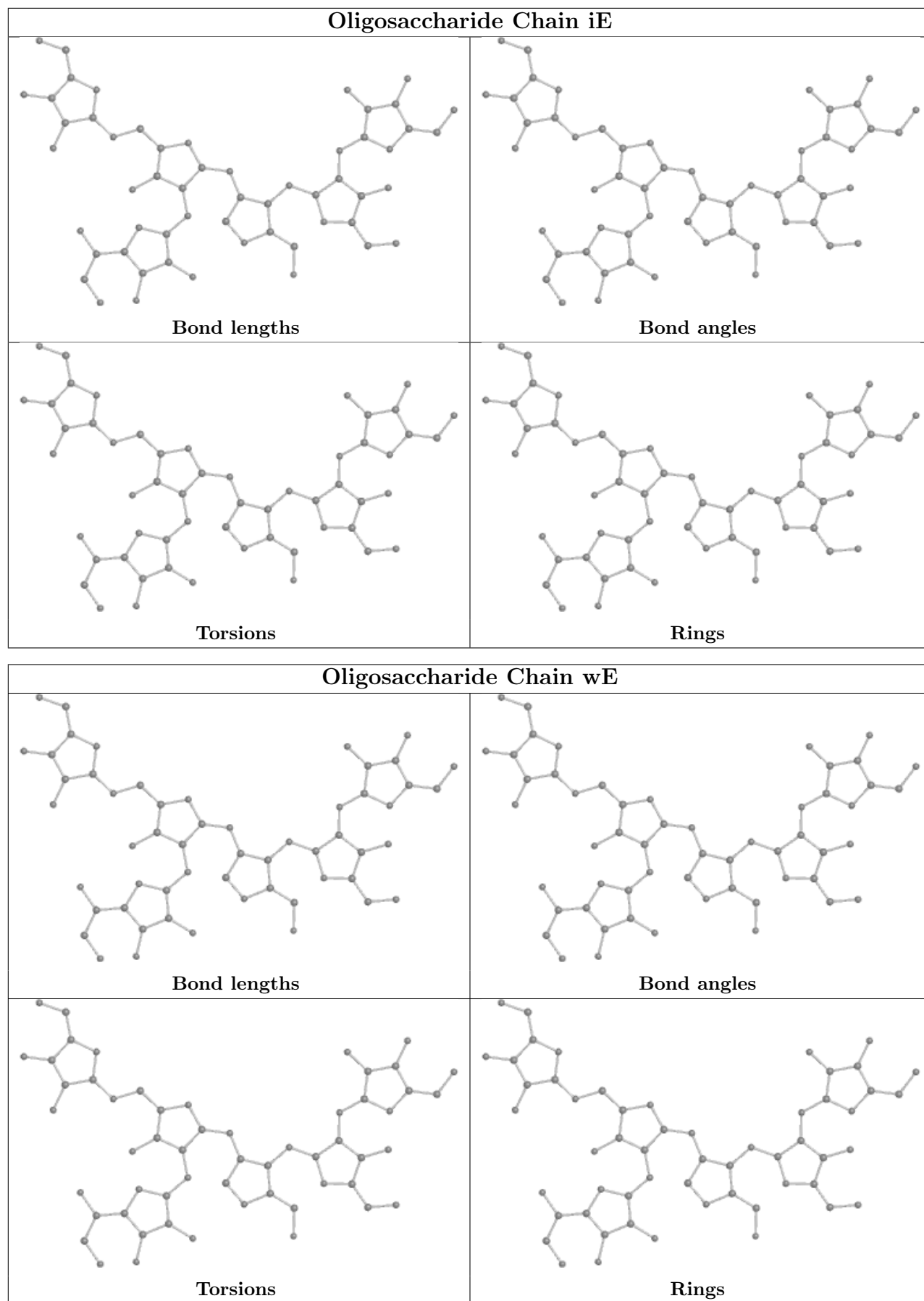


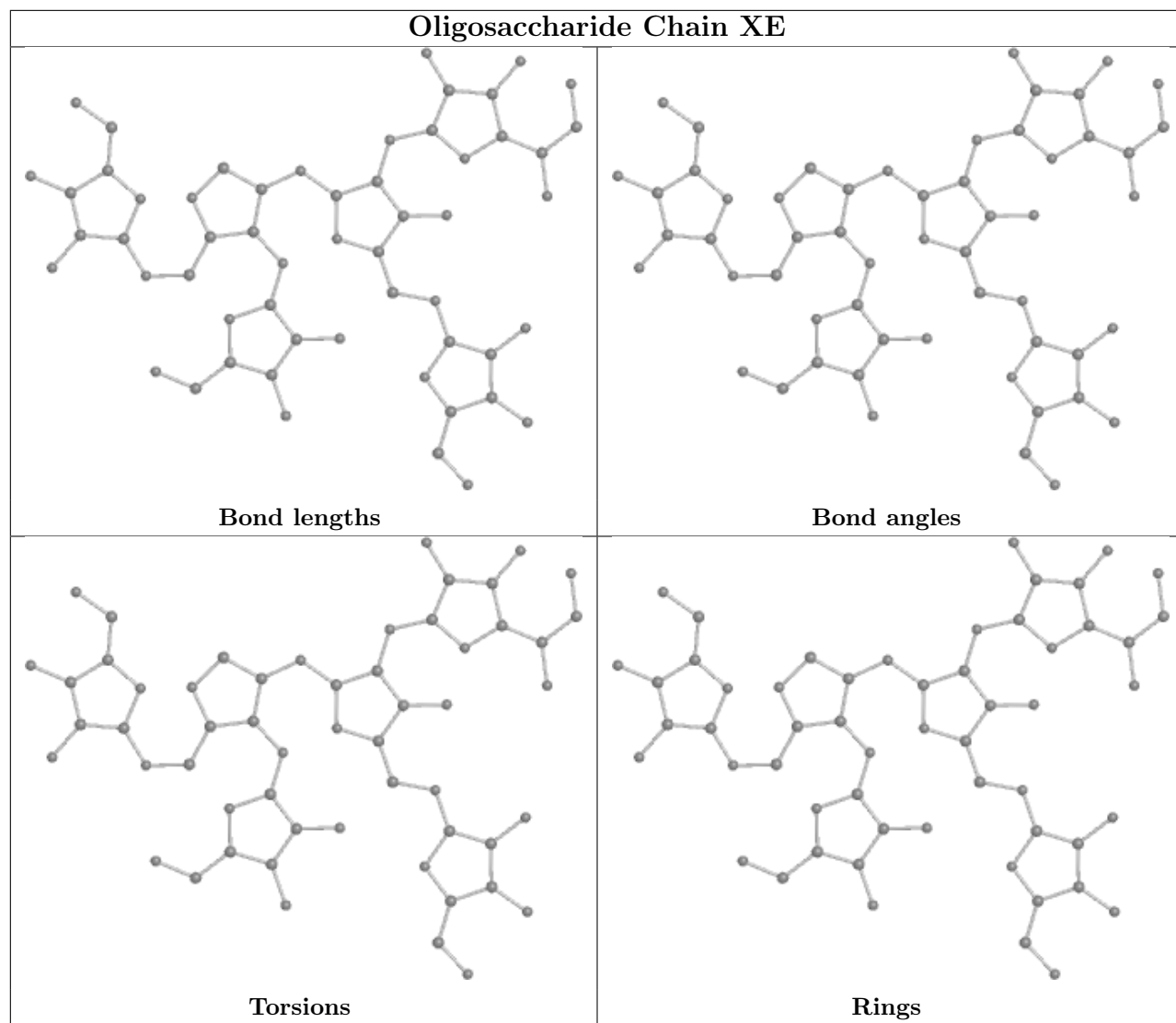


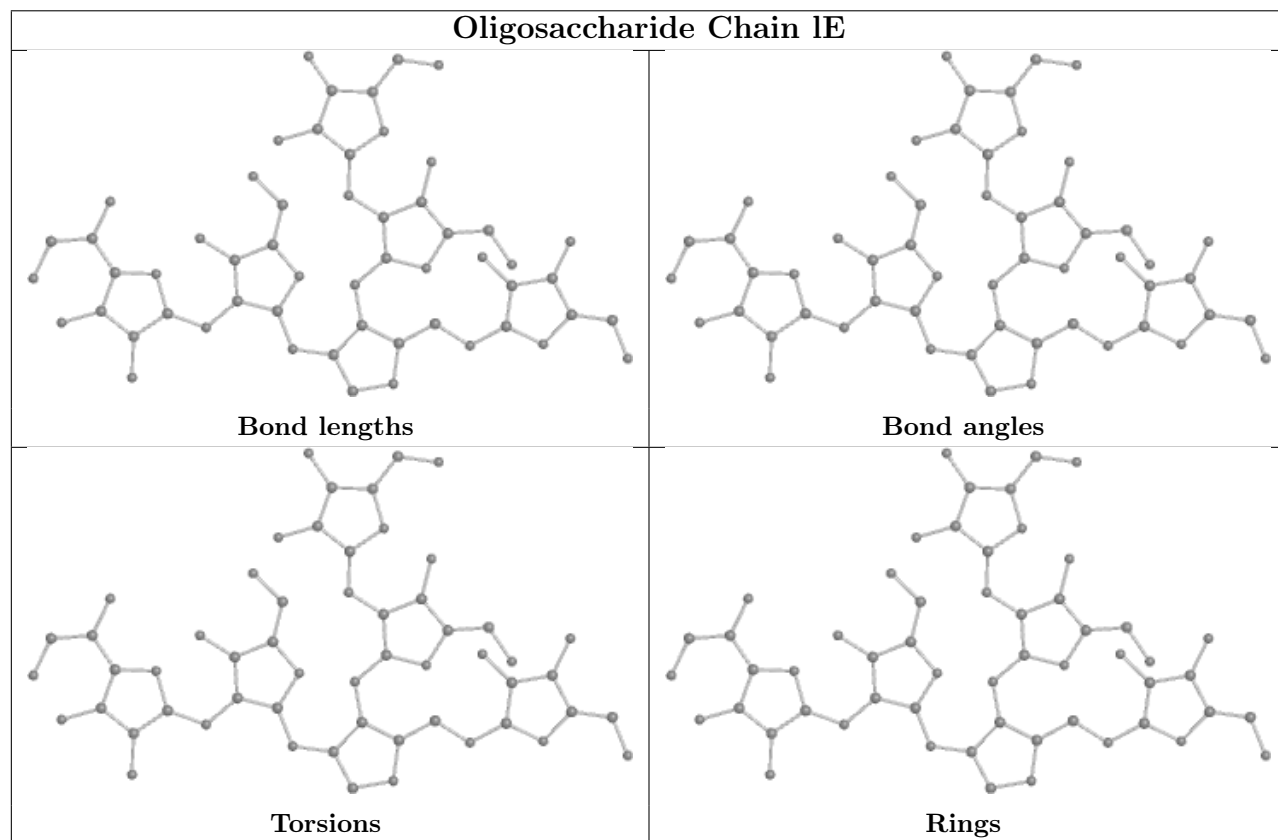
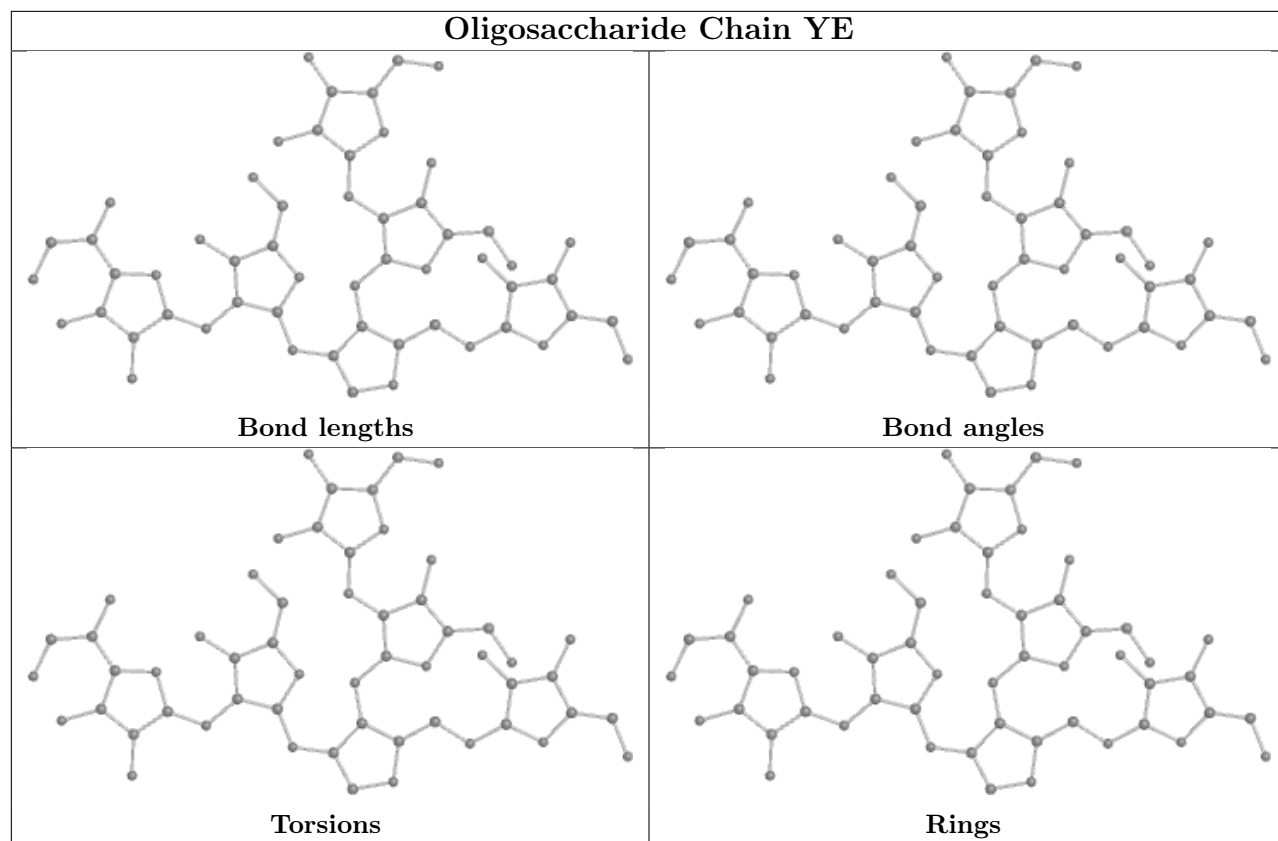












5.6 Ligand geometry

Of 95 ligands modelled in this entry, 6 are monoatomic - leaving 89 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	GLA	F	2011	1	11,11,12	1.78	3 (27%)	15,15,17	0.91	0
27	GLA	E	2005	1	11,11,12	1.77	3 (27%)	15,15,17	0.95	1 (6%)
27	GLA	B	2005	1	11,11,12	1.88	3 (27%)	15,15,17	1.86	4 (26%)
26	AHR	C	2003	-	9,9,10	0.82	0	10,12,14	1.58	2 (20%)
27	GLA	A	2011	1	11,11,12	1.79	3 (27%)	15,15,17	0.94	1 (6%)
28	NAG	C	2009	1	14,14,15	0.36	0	17,19,21	0.78	0
27	GLA	F	2009	1	11,11,12	1.68	2 (18%)	15,15,17	0.89	1 (6%)
26	AHR	E	2003	-	9,9,10	0.67	0	10,12,14	1.58	3 (30%)
27	GLA	B	2013	1	11,11,12	1.73	2 (18%)	15,15,17	0.99	1 (6%)
27	GLA	C	2005	1	11,11,12	1.70	2 (18%)	15,15,17	0.99	1 (6%)
27	GLA	E	2011	1	11,11,12	1.74	3 (27%)	15,15,17	0.91	0
26	AHR	F	2004	-	9,9,10	0.67	0	10,12,14	1.59	3 (30%)
26	AHR	A	2003	-	9,9,10	0.79	1 (11%)	10,12,14	1.57	2 (20%)
27	GLA	F	2016	1	11,11,12	1.70	2 (18%)	15,15,17	0.97	1 (6%)
26	AHR	F	2001	-	9,9,10	0.68	0	10,12,14	1.57	3 (30%)
26	AHR	F	2003	-	9,9,10	0.57	0	10,12,14	1.59	1 (10%)
28	NAG	D	2010	1	14,14,15	0.31	0	17,19,21	0.74	0
27	GLA	F	2006	1	11,11,12	1.83	3 (27%)	15,15,17	2.17	4 (26%)
27	GLA	A	2012	1	11,11,12	1.76	3 (27%)	15,15,17	0.94	1 (6%)
27	GLA	B	2007	1	11,11,12	1.81	3 (27%)	15,15,17	0.90	0
27	GLA	B	2010	1	11,11,12	1.78	3 (27%)	15,15,17	0.86	0
27	GLA	E	2009	1	11,11,12	1.73	3 (27%)	15,15,17	1.13	1 (6%)
27	GLA	B	2011	1	11,11,12	1.72	3 (27%)	15,15,17	1.04	2 (13%)
28	NAG	A	2017	1	14,14,15	0.32	0	17,19,21	0.66	0
27	GLA	D	2005	1	11,11,12	1.79	3 (27%)	15,15,17	0.95	0
27	GLA	A	2015	1	11,11,12	1.81	3 (27%)	15,15,17	0.84	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	GLA	B	2015	1	11,11,12	1.77	2 (18%)	15,15,17	0.86	0
27	GLA	A	2009	1	11,11,12	1.73	3 (27%)	15,15,17	1.12	1 (6%)
27	GLA	A	2004	1	11,11,12	1.89	3 (27%)	15,15,17	1.92	4 (26%)
27	GLA	A	2013	1	11,11,12	1.78	3 (27%)	15,15,17	0.69	0
27	GLA	E	2004	1	11,11,12	1.89	3 (27%)	15,15,17	2.03	4 (26%)
27	GLA	B	2012	1	11,11,12	1.81	3 (27%)	15,15,17	0.77	0
27	GLA	C	2004	1	11,11,12	1.77	3 (27%)	15,15,17	0.81	0
27	GLA	A	2010	1	11,11,12	1.74	3 (27%)	15,15,17	0.92	1 (6%)
27	GLA	B	2016	1	11,11,12	1.85	3 (27%)	15,15,17	0.84	0
27	GLA	F	2017	1	11,11,12	1.75	3 (27%)	15,15,17	1.18	1 (6%)
27	GLA	A	2007	1	11,11,12	1.77	3 (27%)	15,15,17	0.67	0
27	GLA	F	2013	1	11,11,12	1.78	2 (18%)	15,15,17	1.02	1 (6%)
27	GLA	A	2005	1	11,11,12	1.72	2 (18%)	15,15,17	0.93	1 (6%)
26	AHR	A	2018	-	9,9,10	0.56	0	10,12,14	1.09	1 (10%)
27	GLA	E	2014	1	11,11,12	1.75	2 (18%)	15,15,17	0.98	0
27	GLA	E	2008	-	11,11,12	1.76	3 (27%)	15,15,17	1.12	1 (6%)
27	GLA	D	2006	1	11,11,12	1.70	2 (18%)	15,15,17	1.06	1 (6%)
27	GLA	B	2017	1	11,11,12	1.67	2 (18%)	15,15,17	1.55	2 (13%)
27	GLA	F	2018	1	11,11,12	1.78	3 (27%)	15,15,17	0.69	0
27	GLA	D	2009	1	11,11,12	1.82	3 (27%)	15,15,17	0.84	1 (6%)
27	GLA	F	2012	1	11,11,12	1.75	3 (27%)	15,15,17	0.90	1 (6%)
28	NAG	E	2017	1	14,14,15	0.32	0	17,19,21	1.00	2 (11%)
27	GLA	E	2010	1	11,11,12	1.70	2 (18%)	15,15,17	1.43	1 (6%)
27	GLA	E	2006	1	11,11,12	1.79	3 (27%)	15,15,17	0.82	0
26	AHR	A	2002	-	9,9,10	0.87	1 (11%)	10,12,14	1.47	2 (20%)
27	GLA	E	2013	1	11,11,12	1.82	3 (27%)	15,15,17	0.84	0
28	NAG	B	2019	1	14,14,15	0.35	0	17,19,21	0.98	1 (5%)
27	GLA	A	2016	1	11,11,12	1.77	2 (18%)	15,15,17	1.10	1 (6%)
27	GLA	F	2007	1	11,11,12	1.70	3 (27%)	15,15,17	1.09	1 (6%)
27	GLA	E	2007	1	11,11,12	1.82	3 (27%)	15,15,17	1.47	3 (20%)
27	GLA	B	2009	-	11,11,12	1.78	2 (18%)	15,15,17	1.72	2 (13%)
27	GLA	F	2014	1	11,11,12	1.79	3 (27%)	15,15,17	0.88	0
26	AHR	B	2004	-	9,9,10	0.80	0	10,12,14	1.79	4 (40%)
26	AHR	B	2003	-	9,9,10	0.91	0	10,12,14	1.83	4 (40%)
27	GLA	C	2008	1	11,11,12	1.80	3 (27%)	15,15,17	1.01	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	GLA	B	2006	1	11,11,12	1.77	3 (27%)	15,15,17	0.75	0
27	GLA	F	2008	1	11,11,12	1.76	3 (27%)	15,15,17	1.04	2 (13%)
26	AHR	D	2003	-	9,9,10	0.84	0	10,12,14	1.56	2 (20%)
27	GLA	E	2012	1	11,11,12	1.66	2 (18%)	15,15,17	1.32	1 (6%)
27	GLA	B	2014	1	11,11,12	1.68	2 (18%)	15,15,17	0.86	1 (6%)
26	AHR	A	2019	-	9,9,10	0.56	0	10,12,14	0.89	0
27	GLA	F	2010	-	11,11,12	1.80	3 (27%)	15,15,17	0.90	0
27	GLA	A	2008	-	11,11,12	1.79	2 (18%)	15,15,17	1.59	2 (13%)
26	AHR	C	2001	-	9,9,10	0.55	0	10,12,14	1.61	1 (10%)
27	GLA	D	2008	1	11,11,12	1.77	3 (27%)	15,15,17	0.78	0
26	AHR	F	2005	-	9,9,10	0.67	0	10,12,14	1.57	3 (30%)
26	AHR	F	2019	-	9,9,10	0.56	0	10,12,14	0.63	0
28	NAG	C	2010	1	14,14,15	0.32	0	17,19,21	0.91	1 (5%)
26	AHR	B	2002	-	9,9,10	0.56	0	10,12,14	1.16	1 (10%)
28	NAG	B	2018	1	14,14,15	0.35	0	17,19,21	0.81	0
27	GLA	F	2015	1	11,11,12	1.78	3 (27%)	15,15,17	0.70	0
27	GLA	C	2007	1	11,11,12	1.80	3 (27%)	15,15,17	0.89	0
26	AHR	D	2001	-	9,9,10	0.68	0	10,12,14	1.55	2 (20%)
27	GLA	B	2008	1	11,11,12	1.76	2 (18%)	15,15,17	0.81	0
26	AHR	D	2004	-	9,9,10	0.69	0	10,12,14	1.59	3 (30%)
27	GLA	C	2006	1	11,11,12	1.71	2 (18%)	15,15,17	0.84	0
27	GLA	E	2015	1	11,11,12	1.71	2 (18%)	15,15,17	1.36	1 (6%)
26	AHR	B	2020	-	9,9,10	0.90	0	10,12,14	1.02	1 (10%)
27	GLA	D	2007	1	11,11,12	1.73	2 (18%)	15,15,17	0.93	0
26	AHR	E	2002	-	9,9,10	0.82	1 (11%)	10,12,14	1.59	2 (20%)
27	GLA	E	2016	1	11,11,12	1.85	3 (27%)	15,15,17	0.85	0
27	GLA	A	2006	1	11,11,12	1.81	3 (27%)	15,15,17	1.02	1 (6%)
27	GLA	A	2014	1	11,11,12	1.80	2 (18%)	15,15,17	0.93	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. ^{1,2} means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	GLA	F	2011	1	-	1/2/19/22	0/1/1/1
27	GLA	E	2005	1	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	GLA	B	2005	1	-	0/2/19/22	0/1/1/1
26	AHR	C	2003	-	-	2/2/15/18	0/1/1/1
27	GLA	A	2011	1	-	2/2/19/22	0/1/1/1
28	NAG	C	2009	1	-	4/6/23/26	0/1/1/1
27	GLA	F	2009	1	1/1/4/5	2/2/19/22	0/1/1/1
26	AHR	E	2003	-	-	2/2/15/18	0/1/1/1
27	GLA	B	2013	1	-	1/2/19/22	0/1/1/1
27	GLA	C	2005	1	-	2/2/19/22	0/1/1/1
27	GLA	E	2011	1	-	2/2/19/22	0/1/1/1
26	AHR	F	2004	-	-	2/2/15/18	0/1/1/1
26	AHR	A	2003	-	-	2/2/15/18	0/1/1/1
27	GLA	F	2016	1	-	2/2/19/22	0/1/1/1
26	AHR	F	2001	-	-	2/2/15/18	0/1/1/1
26	AHR	F	2003	-	-	1/2/15/18	0/1/1/1
28	NAG	D	2010	1	-	0/6/23/26	0/1/1/1
27	GLA	F	2006	1	-	0/2/19/22	0/1/1/1
27	GLA	A	2012	1	-	2/2/19/22	0/1/1/1
27	GLA	B	2007	1	-	2/2/19/22	0/1/1/1
27	GLA	B	2010	1	-	2/2/19/22	0/1/1/1
27	GLA	E	2009	1	-	0/2/19/22	0/1/1/1
27	GLA	B	2011	1	-	1/2/19/22	0/1/1/1
28	NAG	A	2017	1	-	2/6/23/26	0/1/1/1
27	GLA	D	2005	1	-	2/2/19/22	0/1/1/1
27	GLA	A	2015	1	-	2/2/19/22	0/1/1/1
27	GLA	B	2015	1	-	2/2/19/22	0/1/1/1
27	GLA	A	2009	1	-	1/2/19/22	0/1/1/1
27	GLA	A	2004	1	-	0/2/19/22	0/1/1/1
27	GLA	A	2013	1	-	0/2/19/22	0/1/1/1
27	GLA	E	2004	1	-	0/2/19/22	0/1/1/1
27	GLA	B	2012	1	-	1/2/19/22	0/1/1/1
27	GLA	C	2004	1	-	2/2/19/22	0/1/1/1
27	GLA	A	2010	1	-	2/2/19/22	0/1/1/1
27	GLA	B	2016	1	-	2/2/19/22	0/1/1/1
27	GLA	F	2017	1	-	2/2/19/22	0/1/1/1
27	GLA	A	2007	1	1/1/4/5	2/2/19/22	0/1/1/1
27	GLA	F	2013	1	-	0/2/19/22	0/1/1/1
27	GLA	A	2005	1	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	AHR	A	2018	-	-	0/2/15/18	0/1/1/1
27	GLA	E	2014	1	-	2/2/19/22	0/1/1/1
27	GLA	E	2008	-	-	2/2/19/22	0/1/1/1
27	GLA	D	2006	1	-	0/2/19/22	0/1/1/1
27	GLA	B	2017	1	-	2/2/19/22	0/1/1/1
27	GLA	F	2018	1	-	2/2/19/22	0/1/1/1
27	GLA	D	2009	1	-	2/2/19/22	0/1/1/1
27	GLA	F	2012	1	-	2/2/19/22	0/1/1/1
28	NAG	E	2017	1	-	4/6/23/26	0/1/1/1
27	GLA	E	2010	1	-	1/2/19/22	0/1/1/1
27	GLA	E	2006	1	-	2/2/19/22	0/1/1/1
26	AHR	A	2002	-	-	2/2/15/18	0/1/1/1
27	GLA	E	2013	1	-	2/2/19/22	0/1/1/1
28	NAG	B	2019	1	-	2/6/23/26	0/1/1/1
27	GLA	A	2016	1	-	1/2/19/22	0/1/1/1
27	GLA	F	2007	1	-	2/2/19/22	0/1/1/1
27	GLA	E	2007	1	1/1/4/5	2/2/19/22	0/1/1/1
27	GLA	B	2009	-	-	2/2/19/22	0/1/1/1
27	GLA	F	2014	1	-	2/2/19/22	0/1/1/1
26	AHR	B	2004	-	-	2/2/15/18	0/1/1/1
26	AHR	B	2003	-	-	2/2/15/18	0/1/1/1
27	GLA	C	2008	1	-	2/2/19/22	0/1/1/1
27	GLA	B	2006	1	-	0/2/19/22	0/1/1/1
27	GLA	F	2008	1	-	1/2/19/22	0/1/1/1
26	AHR	D	2003	-	-	2/2/15/18	0/1/1/1
27	GLA	E	2012	1	-	1/2/19/22	0/1/1/1
27	GLA	B	2014	1	1/1/4/5	0/2/19/22	0/1/1/1
26	AHR	A	2019	-	-	0/2/15/18	0/1/1/1
27	GLA	F	2010	-	-	2/2/19/22	0/1/1/1
27	GLA	A	2008	-	-	2/2/19/22	0/1/1/1
26	AHR	C	2001	-	-	2/2/15/18	0/1/1/1
27	GLA	D	2008	1	-	2/2/19/22	0/1/1/1
26	AHR	F	2005	-	-	2/2/15/18	0/1/1/1
26	AHR	F	2019	-	-	0/2/15/18	0/1/1/1
28	NAG	C	2010	1	-	4/6/23/26	0/1/1/1
26	AHR	B	2002	-	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	NAG	B	2018	1	-	4/6/23/26	0/1/1/1
27	GLA	F	2015	1	-	0/2/19/22	0/1/1/1
27	GLA	C	2007	1	-	2/2/19/22	0/1/1/1
26	AHR	D	2001	-	-	1/2/15/18	0/1/1/1
27	GLA	B	2008	1	1/1/4/5	2/2/19/22	0/1/1/1
26	AHR	D	2004	-	-	2/2/15/18	0/1/1/1
27	GLA	C	2006	1	-	0/2/19/22	0/1/1/1
27	GLA	E	2015	1	-	0/2/19/22	0/1/1/1
26	AHR	B	2020	-	-	1/2/15/18	0/1/1/1
27	GLA	D	2007	1	-	2/2/19/22	0/1/1/1
26	AHR	E	2002	-	-	2/2/15/18	0/1/1/1
27	GLA	E	2016	1	-	2/2/19/22	0/1/1/1
27	GLA	A	2006	1	-	1/2/19/22	0/1/1/1
27	GLA	A	2014	1	-	2/2/19/22	0/1/1/1

All (168) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	2004	GLA	O5-C1	4.89	1.51	1.43
27	B	2005	GLA	O5-C1	4.86	1.51	1.43
27	B	2009	GLA	O5-C1	4.77	1.51	1.43
27	E	2004	GLA	O5-C1	4.73	1.51	1.43
27	A	2008	GLA	O5-C1	4.73	1.51	1.43
27	B	2010	GLA	O5-C1	4.68	1.51	1.43
27	E	2016	GLA	O5-C1	4.68	1.51	1.43
27	F	2013	GLA	O5-C1	4.67	1.51	1.43
27	E	2013	GLA	O5-C1	4.67	1.51	1.43
27	B	2016	GLA	O5-C1	4.66	1.51	1.43
27	D	2005	GLA	O5-C1	4.66	1.51	1.43
27	D	2009	GLA	O5-C1	4.66	1.51	1.43
27	B	2012	GLA	O5-C1	4.65	1.51	1.43
27	E	2008	GLA	O5-C1	4.63	1.51	1.43
27	C	2007	GLA	O5-C1	4.61	1.51	1.43
27	F	2011	GLA	O5-C1	4.61	1.51	1.43
27	F	2014	GLA	O5-C1	4.61	1.51	1.43
27	A	2014	GLA	O5-C1	4.60	1.51	1.43
27	F	2010	GLA	O5-C1	4.59	1.51	1.43
27	F	2015	GLA	O5-C1	4.59	1.51	1.43
27	A	2015	GLA	O5-C1	4.59	1.51	1.43
27	F	2018	GLA	O5-C1	4.59	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	E	2006	GLA	O5-C1	4.58	1.51	1.43
27	F	2006	GLA	O5-C1	4.58	1.51	1.43
27	C	2008	GLA	O5-C1	4.58	1.51	1.43
27	F	2017	GLA	O5-C1	4.58	1.51	1.43
27	C	2004	GLA	O5-C1	4.56	1.51	1.43
27	A	2011	GLA	O5-C1	4.54	1.51	1.43
27	A	2013	GLA	O5-C1	4.54	1.51	1.43
27	A	2012	GLA	O5-C1	4.53	1.51	1.43
27	B	2015	GLA	O5-C1	4.53	1.50	1.43
27	A	2016	GLA	O5-C1	4.53	1.50	1.43
27	B	2013	GLA	O5-C1	4.52	1.50	1.43
27	E	2007	GLA	O5-C1	4.52	1.50	1.43
27	B	2008	GLA	O5-C1	4.52	1.50	1.43
27	E	2014	GLA	O5-C1	4.52	1.50	1.43
27	E	2009	GLA	O5-C1	4.51	1.50	1.43
27	F	2016	GLA	O5-C1	4.51	1.50	1.43
27	B	2007	GLA	O5-C1	4.51	1.50	1.43
27	A	2009	GLA	O5-C1	4.50	1.50	1.43
27	A	2006	GLA	O5-C1	4.50	1.50	1.43
27	E	2015	GLA	O5-C1	4.49	1.50	1.43
27	B	2006	GLA	O5-C1	4.49	1.50	1.43
27	E	2012	GLA	O5-C1	4.47	1.50	1.43
27	A	2007	GLA	O5-C1	4.46	1.50	1.43
27	D	2006	GLA	O5-C1	4.46	1.50	1.43
27	C	2005	GLA	O5-C1	4.46	1.50	1.43
27	A	2005	GLA	O5-C1	4.45	1.50	1.43
27	D	2007	GLA	O5-C1	4.44	1.50	1.43
27	E	2010	GLA	O5-C1	4.42	1.50	1.43
27	E	2005	GLA	O5-C1	4.42	1.50	1.43
27	C	2006	GLA	O5-C1	4.41	1.50	1.43
27	D	2008	GLA	O5-C1	4.41	1.50	1.43
27	F	2008	GLA	O5-C1	4.39	1.50	1.43
27	E	2011	GLA	O5-C1	4.38	1.50	1.43
27	F	2012	GLA	O5-C1	4.37	1.50	1.43
27	B	2017	GLA	O5-C1	4.35	1.50	1.43
27	F	2007	GLA	O5-C1	4.30	1.50	1.43
27	B	2014	GLA	O5-C1	4.29	1.50	1.43
27	F	2009	GLA	O5-C1	4.28	1.50	1.43
27	A	2010	GLA	O5-C1	4.22	1.50	1.43
27	B	2011	GLA	O5-C1	4.15	1.50	1.43
27	E	2004	GLA	C2-C3	-3.08	1.48	1.52
27	F	2006	GLA	C2-C3	-2.98	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	2016	GLA	C2-C3	-2.97	1.48	1.52
27	A	2006	GLA	C2-C3	-2.97	1.48	1.52
27	B	2007	GLA	C2-C3	-2.90	1.48	1.52
27	A	2010	GLA	C2-C3	-2.88	1.48	1.52
27	A	2015	GLA	C2-C3	-2.87	1.48	1.52
27	E	2016	GLA	C2-C3	-2.87	1.48	1.52
27	E	2005	GLA	C2-C3	-2.84	1.48	1.52
27	B	2011	GLA	C2-C3	-2.83	1.48	1.52
27	A	2014	GLA	C2-C3	-2.81	1.48	1.52
27	D	2008	GLA	C2-C3	-2.81	1.48	1.52
27	F	2008	GLA	C2-C3	-2.80	1.48	1.52
27	A	2011	GLA	C2-C3	-2.78	1.48	1.52
27	E	2007	GLA	C2-C3	-2.78	1.48	1.52
27	A	2007	GLA	C2-C3	-2.78	1.48	1.52
27	F	2010	GLA	C2-C3	-2.77	1.48	1.52
27	F	2012	GLA	C2-C3	-2.77	1.48	1.52
27	E	2013	GLA	C2-C3	-2.76	1.48	1.52
27	B	2015	GLA	C2-C3	-2.76	1.48	1.52
27	C	2007	GLA	C2-C3	-2.76	1.48	1.52
27	D	2009	GLA	C2-C3	-2.76	1.48	1.52
27	C	2008	GLA	C2-C3	-2.75	1.48	1.52
27	A	2004	GLA	C2-C3	-2.75	1.48	1.52
27	B	2005	GLA	C2-C3	-2.74	1.48	1.52
27	A	2013	GLA	C2-C3	-2.74	1.48	1.52
27	E	2006	GLA	C2-C3	-2.73	1.48	1.52
27	B	2006	GLA	C2-C3	-2.72	1.48	1.52
27	B	2012	GLA	C2-C3	-2.71	1.48	1.52
27	B	2008	GLA	C2-C3	-2.71	1.48	1.52
27	E	2011	GLA	C2-C3	-2.71	1.48	1.52
27	A	2016	GLA	C2-C3	-2.65	1.48	1.52
27	F	2014	GLA	C2-C3	-2.64	1.48	1.52
27	A	2012	GLA	C2-C3	-2.63	1.48	1.52
27	F	2007	GLA	C2-C3	-2.62	1.48	1.52
27	B	2014	GLA	C2-C3	-2.61	1.48	1.52
27	F	2018	GLA	C2-C3	-2.61	1.48	1.52
27	D	2007	GLA	C2-C3	-2.61	1.48	1.52
27	F	2015	GLA	C2-C3	-2.60	1.48	1.52
27	E	2014	GLA	C2-C3	-2.59	1.48	1.52
27	F	2011	GLA	C2-C3	-2.57	1.48	1.52
27	C	2004	GLA	C2-C3	-2.57	1.48	1.52
27	F	2009	GLA	C2-C3	-2.57	1.48	1.52
27	D	2005	GLA	C2-C3	-2.56	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	2010	GLA	C2-C3	-2.53	1.48	1.52
27	C	2006	GLA	C2-C3	-2.52	1.48	1.52
27	F	2013	GLA	C2-C3	-2.51	1.48	1.52
27	A	2008	GLA	C2-C3	-2.51	1.48	1.52
27	A	2005	GLA	C2-C3	-2.50	1.48	1.52
27	B	2013	GLA	C2-C3	-2.45	1.48	1.52
27	A	2009	GLA	C2-C3	-2.44	1.48	1.52
27	F	2017	GLA	C2-C3	-2.43	1.48	1.52
26	A	2002	AHR	C1-C2	2.41	1.55	1.51
27	B	2017	GLA	C2-C3	-2.38	1.49	1.52
27	E	2008	GLA	C2-C3	-2.36	1.49	1.52
27	E	2010	GLA	C2-C3	-2.36	1.49	1.52
27	F	2016	GLA	C2-C3	-2.35	1.49	1.52
27	E	2009	GLA	C2-C3	-2.34	1.49	1.52
27	E	2007	GLA	O5-C5	2.33	1.48	1.43
27	C	2005	GLA	C2-C3	-2.33	1.49	1.52
27	D	2006	GLA	C2-C3	-2.32	1.49	1.52
27	E	2015	GLA	C2-C3	-2.30	1.49	1.52
27	B	2009	GLA	C2-C3	-2.29	1.49	1.52
27	B	2005	GLA	O5-C5	2.22	1.48	1.43
27	A	2004	GLA	O5-C5	2.22	1.47	1.43
27	E	2016	GLA	O5-C5	2.21	1.47	1.43
27	B	2016	GLA	O5-C5	2.18	1.47	1.43
27	D	2008	GLA	O5-C5	2.18	1.47	1.43
27	E	2004	GLA	O5-C5	2.17	1.47	1.43
26	A	2003	AHR	C1-C2	2.16	1.55	1.51
27	B	2006	GLA	O5-C5	2.15	1.47	1.43
27	B	2011	GLA	O5-C5	2.14	1.47	1.43
26	E	2002	AHR	C1-C2	2.14	1.55	1.51
27	C	2004	GLA	O5-C5	2.13	1.47	1.43
27	A	2011	GLA	O5-C5	2.12	1.47	1.43
27	F	2015	GLA	O5-C5	2.12	1.47	1.43
27	D	2009	GLA	O5-C5	2.11	1.47	1.43
27	C	2008	GLA	O5-C5	2.11	1.47	1.43
27	D	2005	GLA	O5-C5	2.10	1.47	1.43
27	F	2006	GLA	O5-C5	2.10	1.47	1.43
27	E	2005	GLA	O5-C5	2.10	1.47	1.43
27	E	2009	GLA	O5-C5	2.09	1.47	1.43
27	F	2011	GLA	O5-C5	2.09	1.47	1.43
27	B	2012	GLA	O5-C5	2.08	1.47	1.43
27	E	2013	GLA	O5-C5	2.08	1.47	1.43
27	E	2008	GLA	O5-C5	2.08	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	F	2018	GLA	O5-C5	2.08	1.47	1.43
27	B	2010	GLA	O5-C5	2.07	1.47	1.43
27	C	2007	GLA	O5-C5	2.07	1.47	1.43
27	E	2011	GLA	O5-C5	2.07	1.47	1.43
27	A	2015	GLA	O5-C5	2.06	1.47	1.43
27	A	2010	GLA	O5-C5	2.06	1.47	1.43
27	F	2010	GLA	O5-C5	2.05	1.47	1.43
27	A	2006	GLA	O5-C5	2.05	1.47	1.43
27	F	2012	GLA	O5-C5	2.05	1.47	1.43
27	F	2014	GLA	O5-C5	2.05	1.47	1.43
27	A	2012	GLA	O5-C5	2.04	1.47	1.43
27	B	2007	GLA	O5-C5	2.03	1.47	1.43
27	E	2006	GLA	O5-C5	2.03	1.47	1.43
27	A	2009	GLA	O5-C5	2.03	1.47	1.43
27	A	2013	GLA	O5-C5	2.03	1.47	1.43
27	E	2012	GLA	C2-C3	-2.03	1.49	1.52
27	F	2017	GLA	O5-C5	2.02	1.47	1.43
27	F	2008	GLA	O5-C5	2.02	1.47	1.43
27	F	2007	GLA	O5-C5	2.01	1.47	1.43
27	A	2007	GLA	O5-C5	2.01	1.47	1.43

All (98) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	F	2006	GLA	O5-C1-C2	5.56	119.35	110.77
27	B	2009	GLA	C1-C2-C3	4.96	115.76	109.67
27	E	2004	GLA	O5-C1-C2	4.71	118.04	110.77
27	B	2005	GLA	O5-C1-C2	4.65	117.95	110.77
27	A	2004	GLA	O5-C1-C2	4.47	117.67	110.77
27	A	2008	GLA	C1-C2-C3	4.42	115.10	109.67
27	B	2017	GLA	C1-C2-C3	4.02	114.60	109.67
26	F	2003	AHR	O4-C1-C2	-3.94	98.37	105.99
26	C	2001	AHR	O4-C1-C2	-3.89	98.47	105.99
27	E	2010	GLA	C1-C2-C3	3.88	114.44	109.67
27	E	2012	GLA	C1-C2-C3	3.83	114.37	109.67
27	E	2015	GLA	C1-C2-C3	3.72	114.24	109.67
27	A	2004	GLA	C1-O5-C5	3.59	117.06	112.19
26	A	2003	AHR	C1-C2-C3	3.57	107.07	101.63
27	E	2004	GLA	C1-C2-C3	3.50	113.97	109.67
27	B	2005	GLA	C1-C2-C3	3.46	113.91	109.67
26	F	2004	AHR	O4-C1-C2	-3.43	99.36	105.99
27	F	2006	GLA	C1-C2-C3	3.41	113.86	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	2004	GLA	C1-C2-C3	3.36	113.80	109.67
26	F	2005	AHR	O4-C1-C2	-3.36	99.50	105.99
27	F	2006	GLA	C1-O5-C5	3.36	116.74	112.19
27	E	2004	GLA	C1-O5-C5	3.34	116.71	112.19
26	D	2004	AHR	O4-C1-C2	-3.31	99.58	105.99
26	E	2002	AHR	C1-C2-C3	3.31	106.67	101.63
26	E	2003	AHR	O4-C1-C2	-3.29	99.62	105.99
26	F	2001	AHR	O4-C1-C2	-3.28	99.65	105.99
28	B	2019	NAG	C1-O5-C5	3.09	116.38	112.19
27	F	2017	GLA	C1-C2-C3	3.05	113.41	109.67
26	D	2001	AHR	O4-C1-C2	-3.02	100.15	105.99
27	B	2005	GLA	C1-O5-C5	3.02	116.28	112.19
26	B	2003	AHR	O4-C1-C2	-2.92	100.35	105.99
26	B	2003	AHR	C1-O4-C4	-2.91	101.37	108.16
26	A	2002	AHR	C1-C2-C3	2.90	106.04	101.63
27	A	2008	GLA	O5-C1-C2	2.88	115.22	110.77
26	C	2003	AHR	C1-C2-C3	2.88	106.01	101.63
27	B	2009	GLA	O5-C1-C2	2.67	114.89	110.77
26	D	2001	AHR	O2-C2-C1	2.65	118.88	110.97
26	B	2003	AHR	O5-C5-C4	-2.63	102.26	111.29
27	E	2007	GLA	C3-C4-C5	2.63	114.92	110.24
26	D	2003	AHR	O5-C5-C4	-2.63	102.28	111.29
27	E	2009	GLA	C1-C2-C3	2.62	112.89	109.67
26	C	2003	AHR	O5-C5-C4	-2.62	102.29	111.29
27	D	2006	GLA	C1-C2-C3	2.61	112.88	109.67
26	B	2002	AHR	C1-C2-C3	2.60	105.59	101.63
27	A	2009	GLA	C1-C2-C3	2.60	112.86	109.67
26	E	2002	AHR	O5-C5-C4	-2.60	102.38	111.29
26	D	2003	AHR	O4-C1-C2	-2.59	100.97	105.99
27	E	2008	GLA	C1-C2-C3	2.59	112.85	109.67
28	C	2010	NAG	C1-O5-C5	2.58	115.69	112.19
26	A	2018	AHR	C1-C2-C3	2.54	105.50	101.63
27	A	2016	GLA	C1-C2-C3	2.54	112.78	109.67
27	E	2004	GLA	C6-C5-C4	-2.51	107.12	113.00
26	B	2004	AHR	O4-C1-C2	-2.50	101.15	105.99
27	C	2005	GLA	C1-C2-C3	2.47	112.70	109.67
26	B	2020	AHR	C1-C2-C3	2.46	105.38	101.63
27	E	2007	GLA	C1-C2-C3	2.45	112.68	109.67
26	B	2004	AHR	C5-C4-C3	2.42	120.92	115.09
26	F	2005	AHR	O2-C2-C3	2.42	115.85	111.27
26	E	2003	AHR	O2-C2-C3	2.41	115.84	111.27
26	B	2004	AHR	C1-O4-C4	-2.41	102.54	108.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	F	2006	GLA	C6-C5-C4	-2.41	107.37	113.00
26	F	2001	AHR	O2-C2-C3	2.39	115.80	111.27
27	A	2010	GLA	C6-C5-C4	-2.39	107.41	113.00
26	D	2004	AHR	O2-C2-C3	2.38	115.78	111.27
26	A	2002	AHR	O4-C4-C3	-2.38	102.60	104.70
26	D	2004	AHR	O2-C2-C1	2.37	118.04	110.97
27	B	2017	GLA	O5-C1-C2	2.35	114.40	110.77
27	A	2006	GLA	C6-C5-C4	-2.34	107.52	113.00
27	F	2008	GLA	C6-C5-C4	-2.34	107.53	113.00
26	B	2003	AHR	C5-C4-C3	2.33	120.70	115.09
27	F	2016	GLA	C1-C2-C3	2.32	112.52	109.67
26	E	2003	AHR	O2-C2-C1	2.30	117.83	110.97
26	F	2004	AHR	O2-C2-C3	2.30	115.63	111.27
26	F	2005	AHR	O2-C2-C1	2.30	117.81	110.97
27	E	2007	GLA	C1-O5-C5	2.30	115.30	112.19
27	A	2004	GLA	C6-C5-C4	-2.29	107.64	113.00
27	F	2013	GLA	C1-C2-C3	2.28	112.47	109.67
26	F	2001	AHR	O2-C2-C1	2.28	117.75	110.97
27	F	2008	GLA	C1-C2-C3	2.27	112.46	109.67
27	A	2005	GLA	C1-C2-C3	2.26	112.45	109.67
27	F	2009	GLA	C3-C4-C5	2.23	114.21	110.24
26	B	2004	AHR	O5-C5-C4	-2.22	103.69	111.29
26	F	2004	AHR	O2-C2-C1	2.21	117.57	110.97
27	B	2013	GLA	C1-C2-C3	2.18	112.35	109.67
27	B	2011	GLA	C3-C4-C5	2.17	114.12	110.24
28	E	2017	NAG	C1-O5-C5	2.15	115.10	112.19
27	A	2011	GLA	C6-C5-C4	-2.15	107.98	113.00
28	E	2017	NAG	O5-C5-C6	2.15	110.57	107.20
26	A	2003	AHR	O5-C5-C4	-2.12	104.02	111.29
27	F	2012	GLA	C6-C5-C4	-2.05	108.20	113.00
27	B	2011	GLA	C6-C5-C4	-2.03	108.24	113.00
27	B	2014	GLA	C1-O5-C5	-2.03	109.44	112.19
27	F	2007	GLA	C3-C4-C5	2.01	113.83	110.24
27	A	2012	GLA	C1-C2-C3	2.01	112.14	109.67
27	E	2005	GLA	C6-C5-C4	-2.01	108.30	113.00
27	D	2009	GLA	C6-C5-C4	-2.00	108.31	113.00
27	B	2005	GLA	C6-C5-C4	-2.00	108.32	113.00
27	C	2008	GLA	C6-C5-C4	-2.00	108.32	113.00

All (5) chirality outliers are listed below:

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Mol	Chain	Res	Type	Atom
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Mol	Chain	Res	Type	Atom
27	A	2007	GLA	C1
27	B	2008	GLA	C1
27	B	2014	GLA	C1
27	E	2007	GLA	C1
27	F	2009	GLA	C1

All (135) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
28	B	2018	NAG	C3-C2-N2-C7
28	B	2018	NAG	C8-C7-N2-C2
28	B	2018	NAG	O7-C7-N2-C2
28	C	2009	NAG	C3-C2-N2-C7
28	C	2009	NAG	C8-C7-N2-C2
28	C	2009	NAG	O7-C7-N2-C2
28	E	2017	NAG	C8-C7-N2-C2
28	E	2017	NAG	O7-C7-N2-C2
26	A	2002	AHR	C3-C4-C5-O5
26	A	2003	AHR	C3-C4-C5-O5
27	F	2010	GLA	O5-C5-C6-O6
27	C	2004	GLA	O5-C5-C6-O6
27	C	2007	GLA	O5-C5-C6-O6
26	A	2002	AHR	O4-C4-C5-O5
26	A	2003	AHR	O4-C4-C5-O5
26	E	2002	AHR	O4-C4-C5-O5
26	C	2003	AHR	C3-C4-C5-O5
26	E	2002	AHR	C3-C4-C5-O5
27	F	2009	GLA	C4-C5-C6-O6
27	B	2016	GLA	O5-C5-C6-O6
27	A	2007	GLA	C4-C5-C6-O6
26	D	2003	AHR	C3-C4-C5-O5
27	A	2008	GLA	O5-C5-C6-O6
27	C	2005	GLA	O5-C5-C6-O6
27	E	2008	GLA	O5-C5-C6-O6
27	E	2014	GLA	O5-C5-C6-O6
27	F	2014	GLA	O5-C5-C6-O6
27	C	2005	GLA	C4-C5-C6-O6
27	F	2018	GLA	C4-C5-C6-O6
27	A	2011	GLA	O5-C5-C6-O6
27	B	2009	GLA	O5-C5-C6-O6
27	C	2004	GLA	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
27	F	2014	GLA	C4-C5-C6-O6
27	F	2018	GLA	O5-C5-C6-O6
27	F	2010	GLA	C4-C5-C6-O6
26	C	2003	AHR	O4-C4-C5-O5
27	A	2010	GLA	O5-C5-C6-O6
27	E	2007	GLA	O5-C5-C6-O6
27	A	2008	GLA	C4-C5-C6-O6
27	B	2008	GLA	C4-C5-C6-O6
27	E	2016	GLA	C4-C5-C6-O6
27	B	2007	GLA	O5-C5-C6-O6
27	D	2009	GLA	O5-C5-C6-O6
27	E	2005	GLA	O5-C5-C6-O6
27	F	2007	GLA	O5-C5-C6-O6
27	C	2008	GLA	O5-C5-C6-O6
27	E	2016	GLA	O5-C5-C6-O6
28	E	2017	NAG	C4-C5-C6-O6
27	A	2007	GLA	O5-C5-C6-O6
27	D	2007	GLA	O5-C5-C6-O6
27	F	2009	GLA	O5-C5-C6-O6
27	A	2012	GLA	C4-C5-C6-O6
27	C	2007	GLA	C4-C5-C6-O6
27	A	2015	GLA	C4-C5-C6-O6
27	E	2011	GLA	C4-C5-C6-O6
26	D	2003	AHR	O4-C4-C5-O5
26	D	2004	AHR	O4-C4-C5-O5
26	E	2003	AHR	O4-C4-C5-O5
26	F	2001	AHR	O4-C4-C5-O5
28	C	2010	NAG	O5-C5-C6-O6
27	A	2011	GLA	C4-C5-C6-O6
27	E	2006	GLA	C4-C5-C6-O6
27	E	2014	GLA	C4-C5-C6-O6
27	B	2008	GLA	O5-C5-C6-O6
27	B	2015	GLA	O5-C5-C6-O6
27	F	2012	GLA	O5-C5-C6-O6
28	A	2017	NAG	O5-C5-C6-O6
28	B	2019	NAG	O5-C5-C6-O6
27	C	2008	GLA	C4-C5-C6-O6
27	D	2009	GLA	C4-C5-C6-O6
27	B	2016	GLA	C4-C5-C6-O6
28	C	2010	NAG	C4-C5-C6-O6
27	D	2005	GLA	O5-C5-C6-O6
27	E	2005	GLA	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
27	E	2007	GLA	C4-C5-C6-O6
27	F	2007	GLA	C4-C5-C6-O6
26	C	2001	AHR	O4-C4-C5-O5
26	F	2005	AHR	O4-C4-C5-O5
27	B	2010	GLA	O5-C5-C6-O6
26	D	2004	AHR	C3-C4-C5-O5
27	A	2012	GLA	O5-C5-C6-O6
28	A	2017	NAG	C4-C5-C6-O6
28	B	2019	NAG	C4-C5-C6-O6
26	F	2004	AHR	O4-C4-C5-O5
27	B	2009	GLA	C4-C5-C6-O6
26	B	2003	AHR	C3-C4-C5-O5
26	E	2003	AHR	C3-C4-C5-O5
26	F	2001	AHR	C3-C4-C5-O5
26	F	2005	AHR	C3-C4-C5-O5
27	A	2015	GLA	O5-C5-C6-O6
27	D	2007	GLA	C4-C5-C6-O6
27	E	2013	GLA	O5-C5-C6-O6
27	E	2008	GLA	C4-C5-C6-O6
27	E	2011	GLA	O5-C5-C6-O6
27	B	2017	GLA	C4-C5-C6-O6
26	B	2003	AHR	O4-C4-C5-O5
27	B	2011	GLA	O5-C5-C6-O6
27	B	2015	GLA	C4-C5-C6-O6
27	E	2006	GLA	O5-C5-C6-O6
27	D	2008	GLA	C4-C5-C6-O6
28	E	2017	NAG	O5-C5-C6-O6
27	E	2010	GLA	O5-C5-C6-O6
27	A	2009	GLA	O5-C5-C6-O6
27	A	2014	GLA	O5-C5-C6-O6
26	B	2020	AHR	O4-C4-C5-O5
27	B	2007	GLA	C4-C5-C6-O6
27	A	2016	GLA	O5-C5-C6-O6
26	B	2004	AHR	C3-C4-C5-O5
27	B	2017	GLA	O5-C5-C6-O6
27	A	2010	GLA	C4-C5-C6-O6
27	F	2016	GLA	C4-C5-C6-O6
26	B	2004	AHR	O4-C4-C5-O5
27	A	2006	GLA	O5-C5-C6-O6
27	F	2017	GLA	C4-C5-C6-O6
27	D	2005	GLA	C4-C5-C6-O6
28	C	2009	NAG	O5-C5-C6-O6

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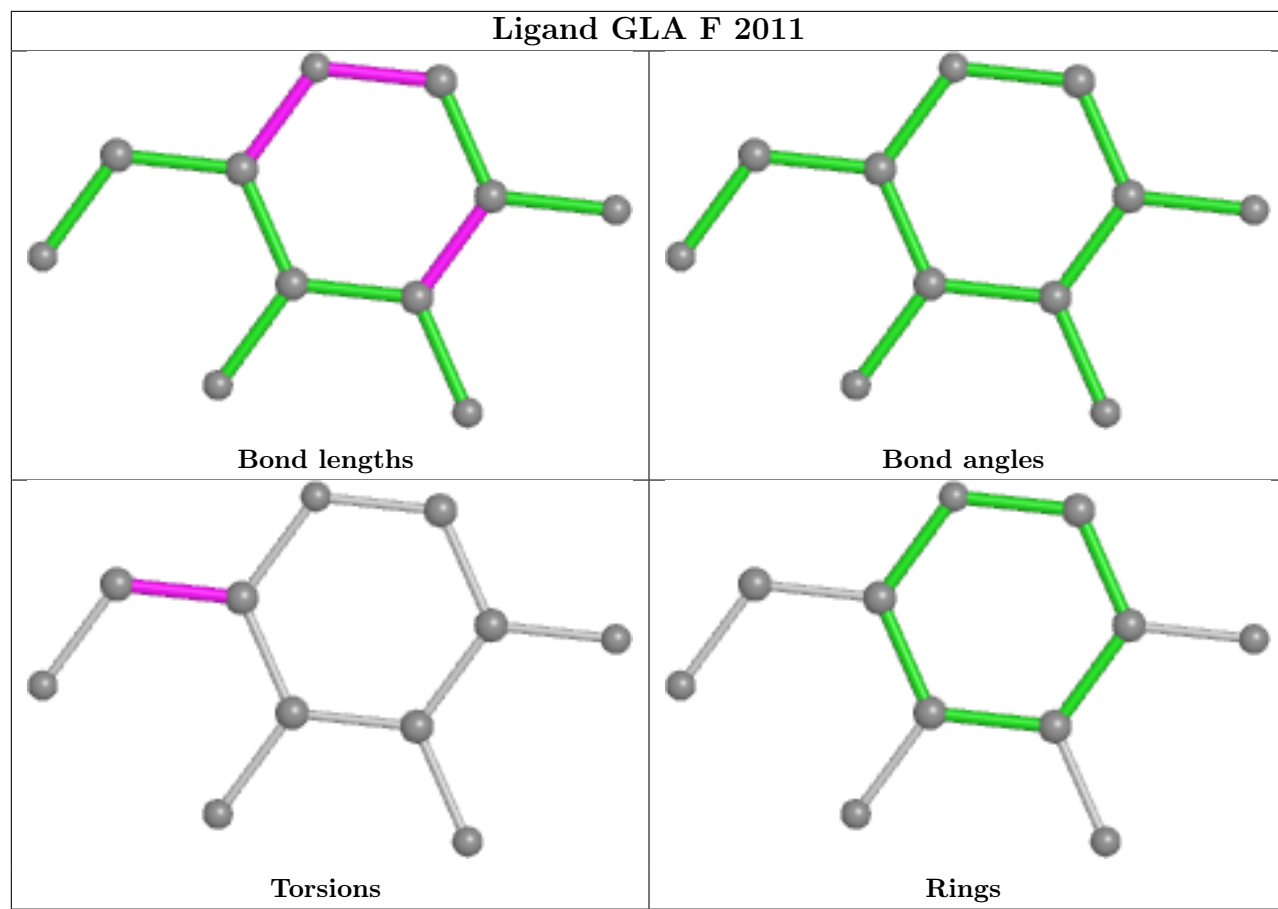
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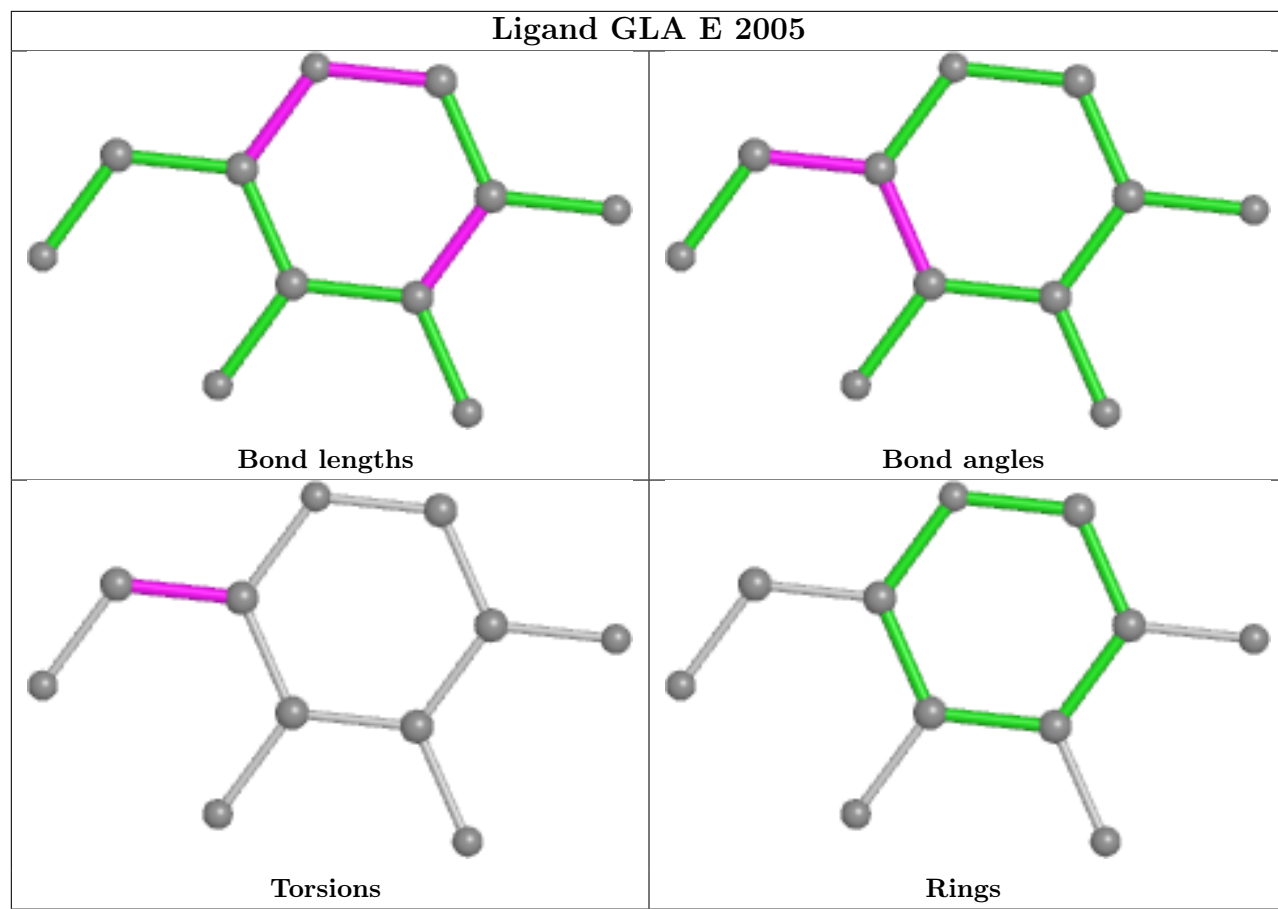
Mol	Chain	Res	Type	Atoms
27	F	2008	GLA	O5-C5-C6-O6
26	C	2001	AHR	C3-C4-C5-O5
26	F	2004	AHR	C3-C4-C5-O5
27	B	2013	GLA	O5-C5-C6-O6
27	B	2010	GLA	C4-C5-C6-O6
27	F	2012	GLA	C4-C5-C6-O6
27	D	2008	GLA	O5-C5-C6-O6
27	F	2011	GLA	O5-C5-C6-O6
27	F	2016	GLA	O5-C5-C6-O6
27	F	2017	GLA	O5-C5-C6-O6
27	E	2013	GLA	C4-C5-C6-O6
27	E	2012	GLA	C4-C5-C6-O6
28	B	2018	NAG	O5-C5-C6-O6
26	D	2001	AHR	O4-C4-C5-O5
26	F	2003	AHR	O4-C4-C5-O5
27	B	2012	GLA	C4-C5-C6-O6
28	C	2010	NAG	C8-C7-N2-C2
27	A	2014	GLA	C4-C5-C6-O6
28	C	2010	NAG	O7-C7-N2-C2

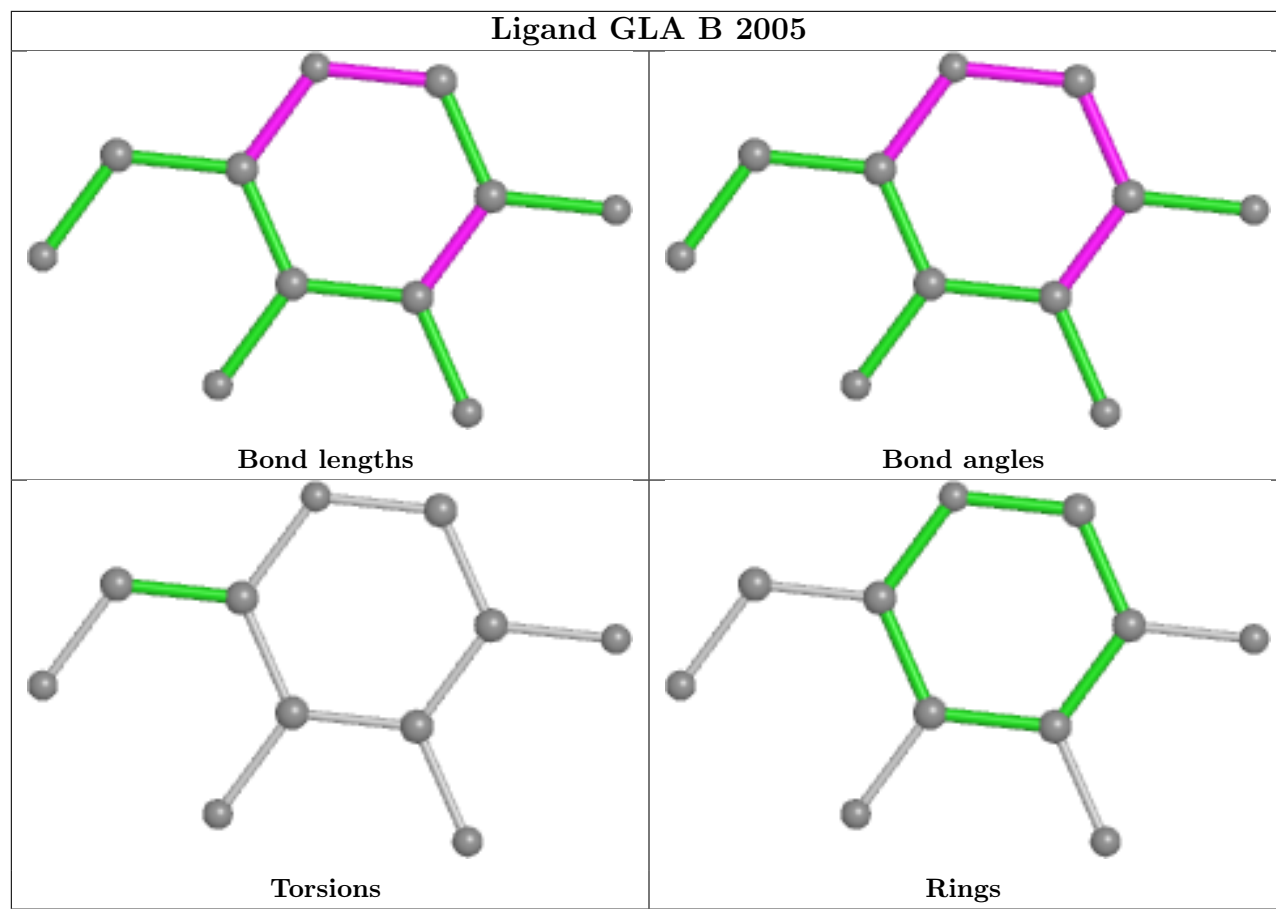
There are no ring outliers.

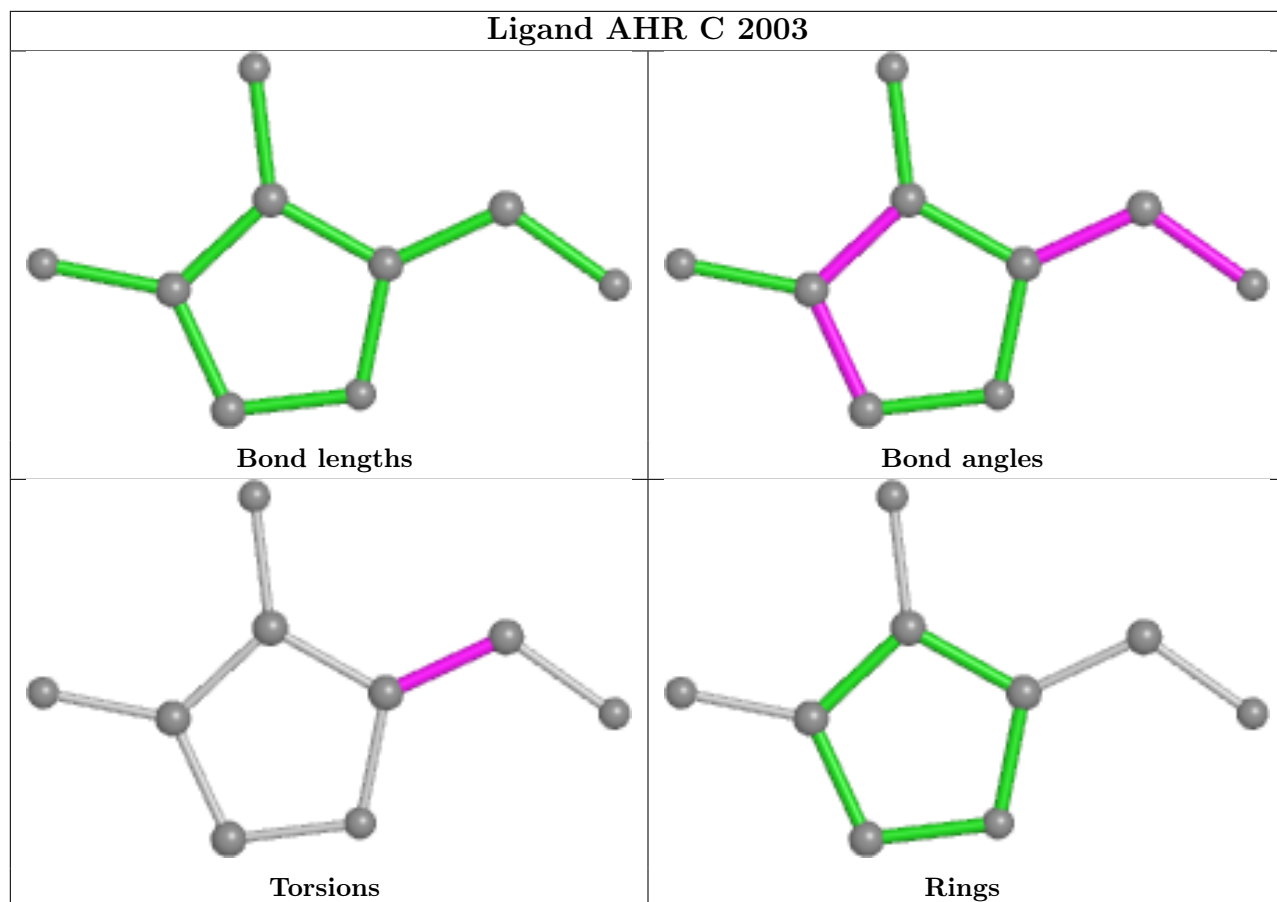
No monomer is involved in short contacts.

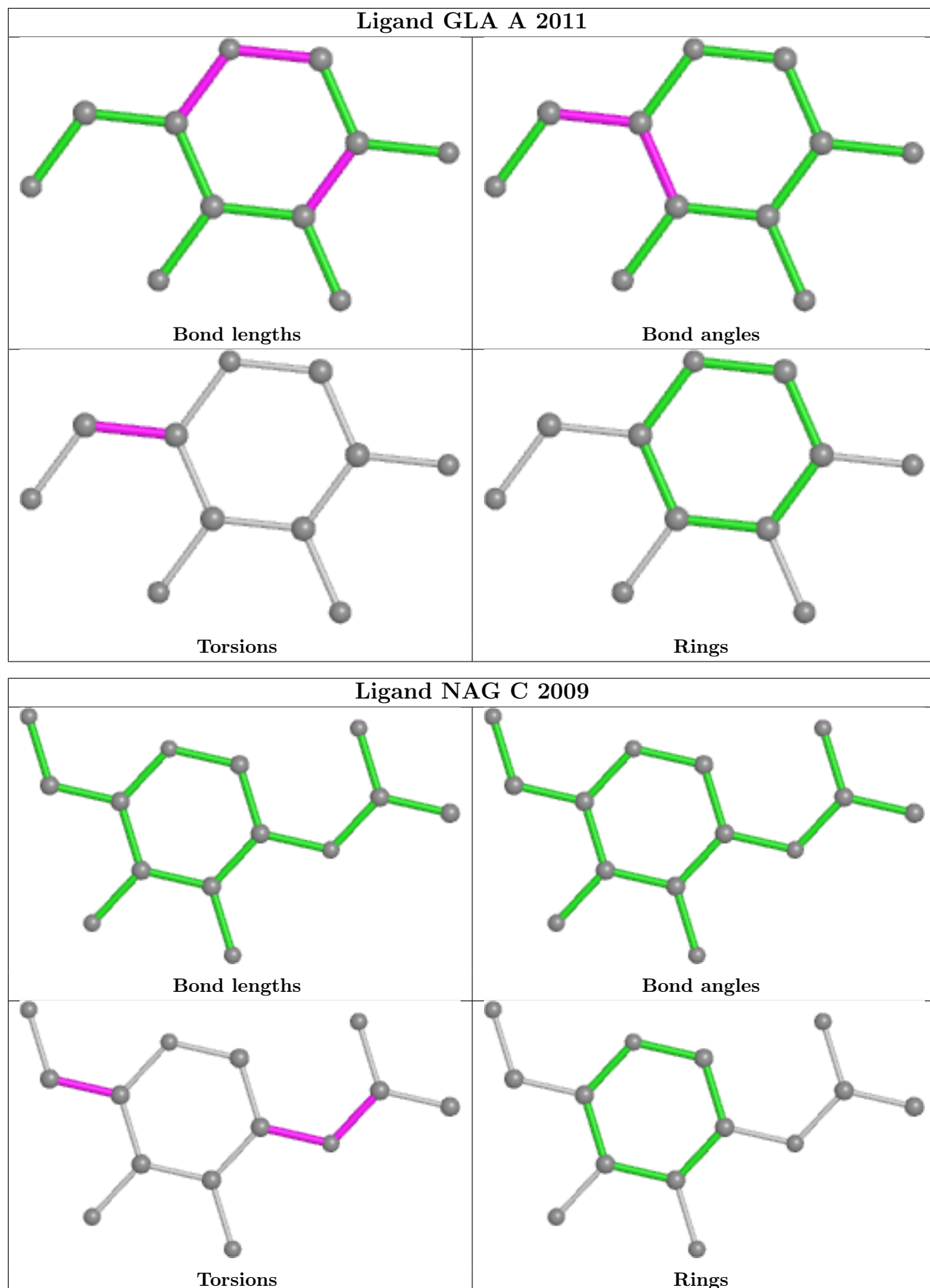
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

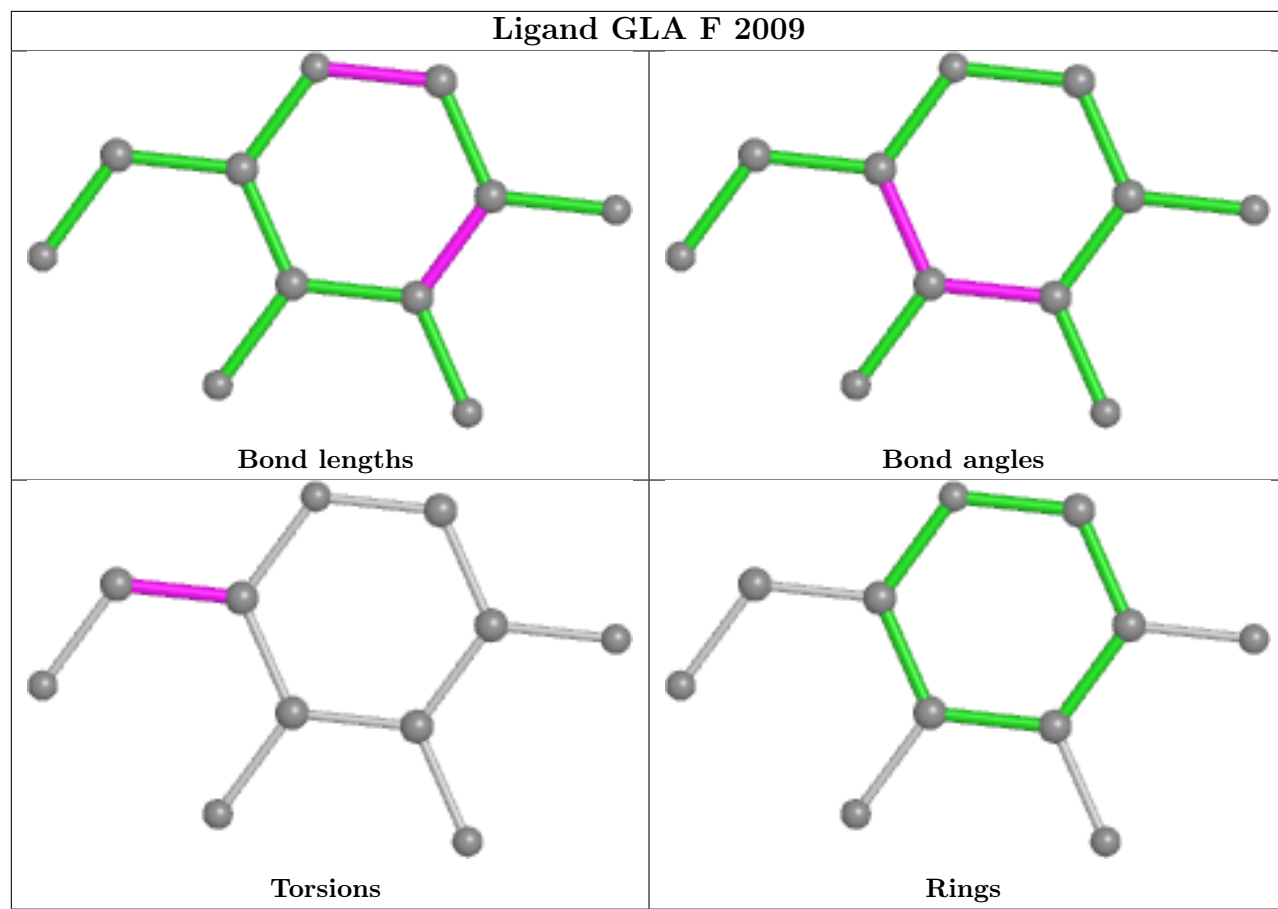


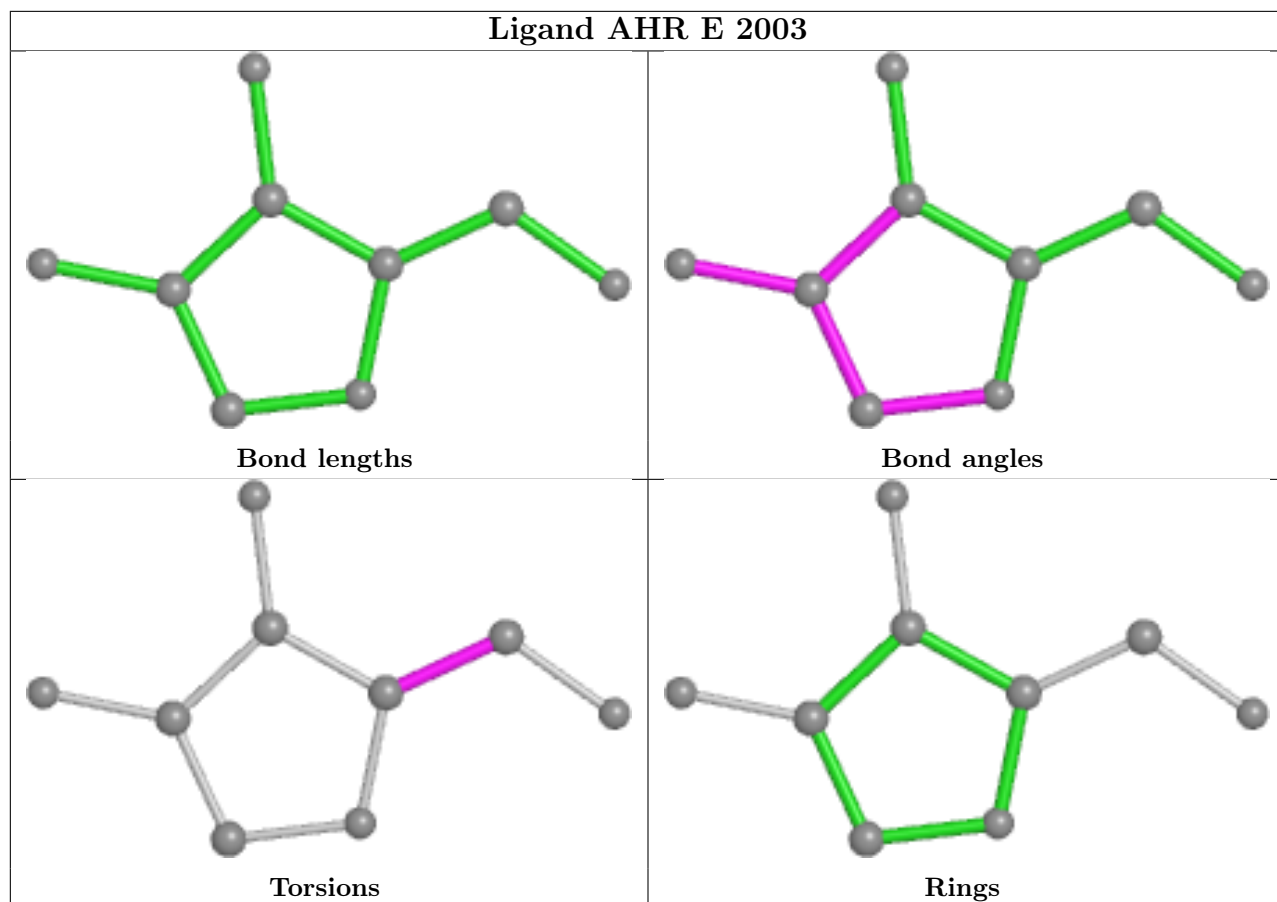


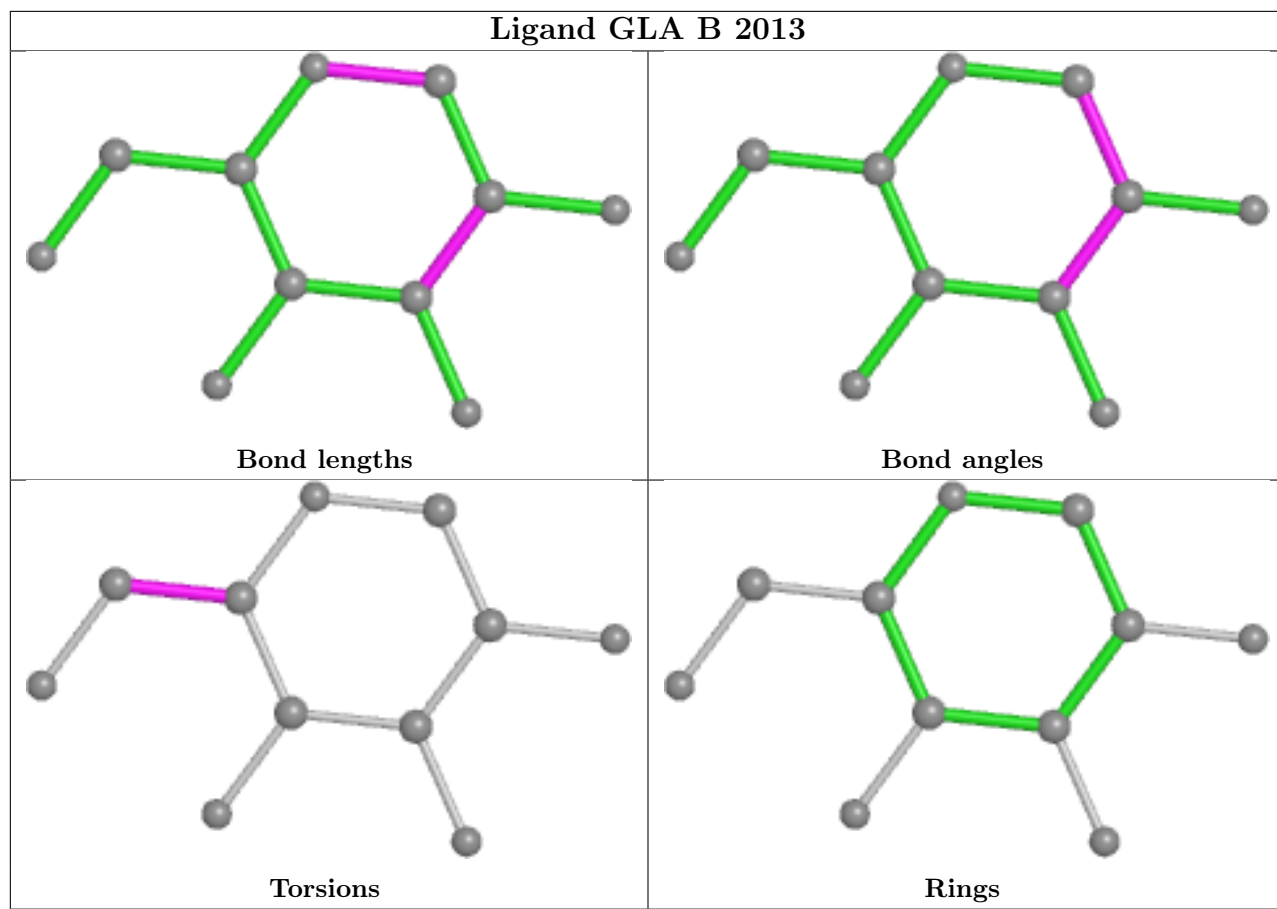


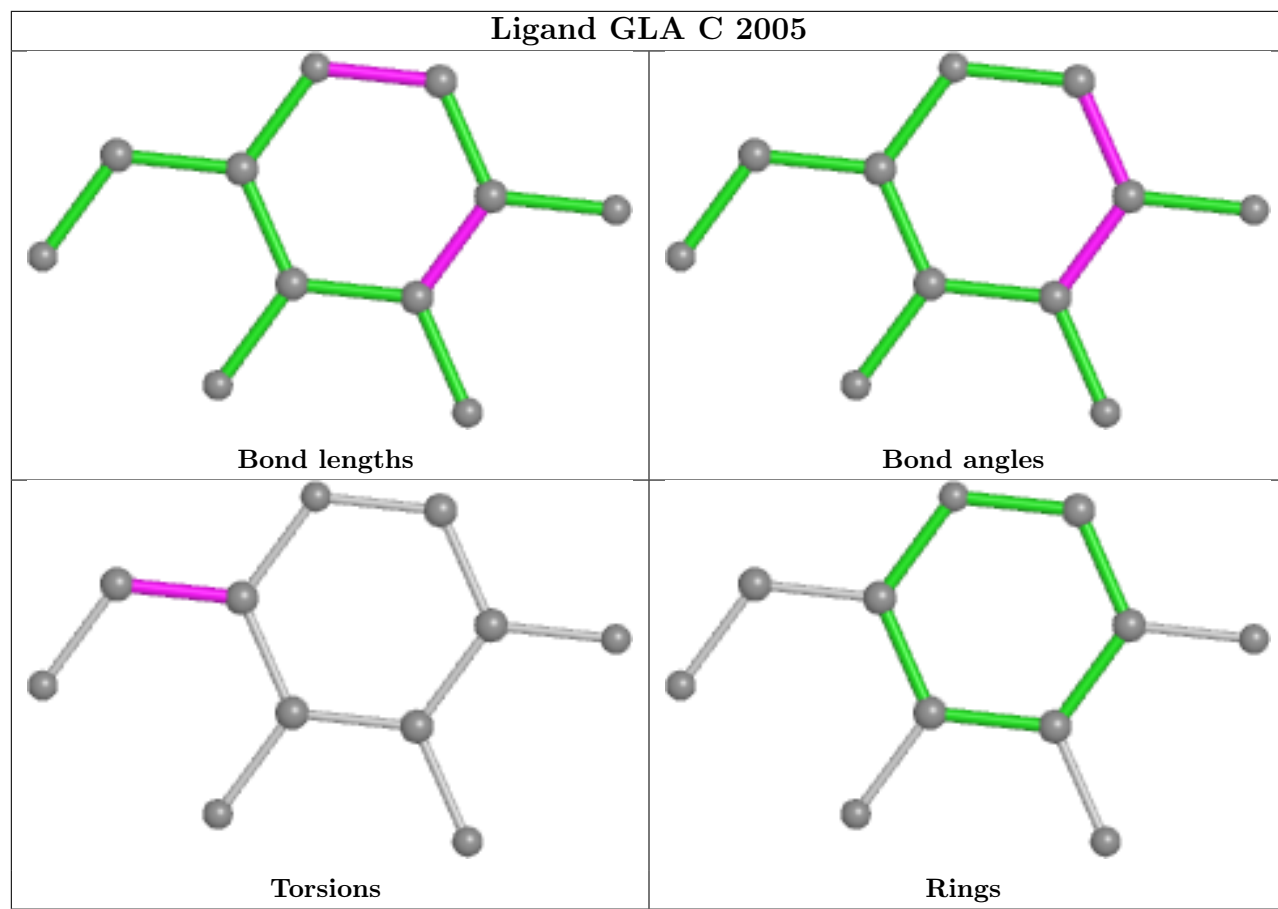


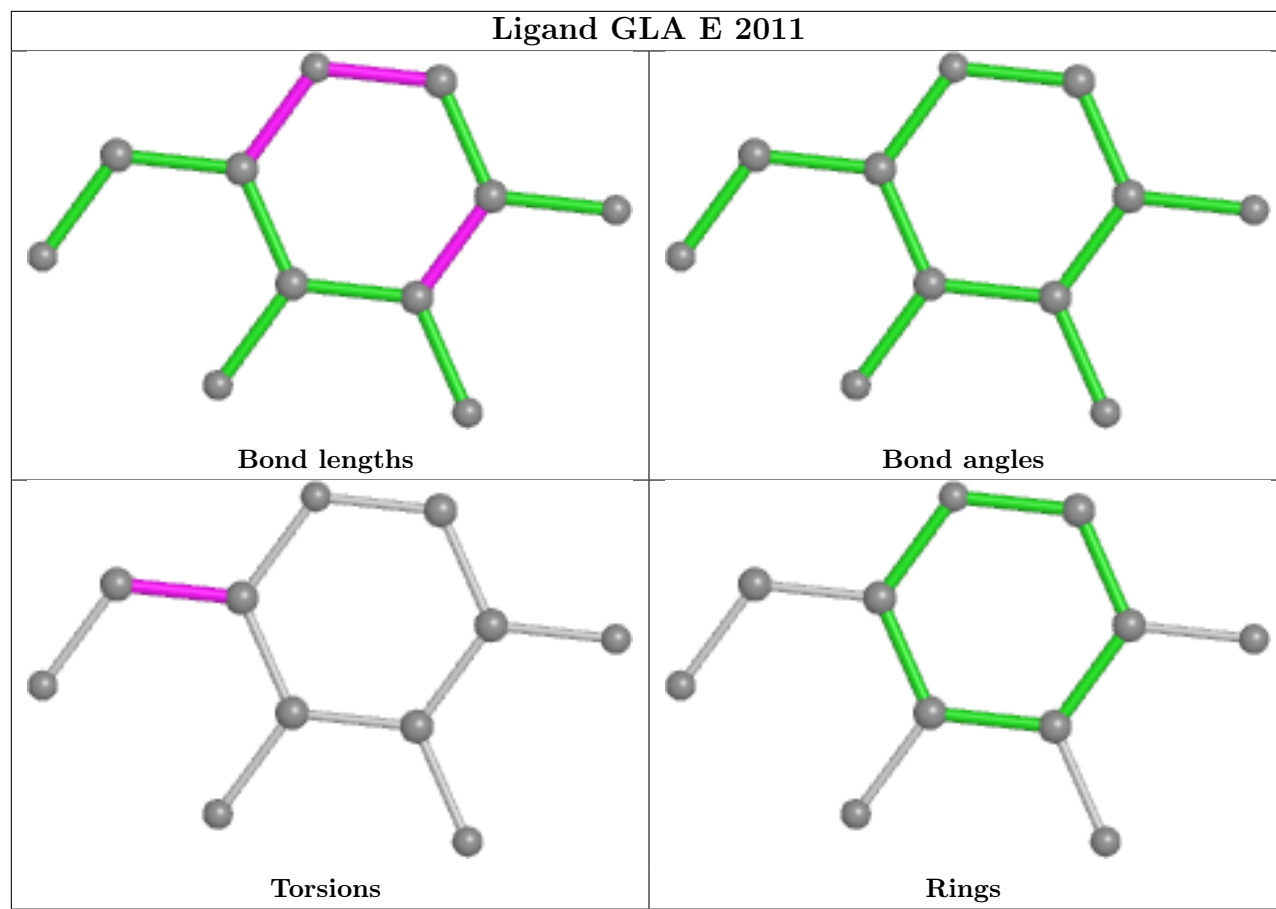


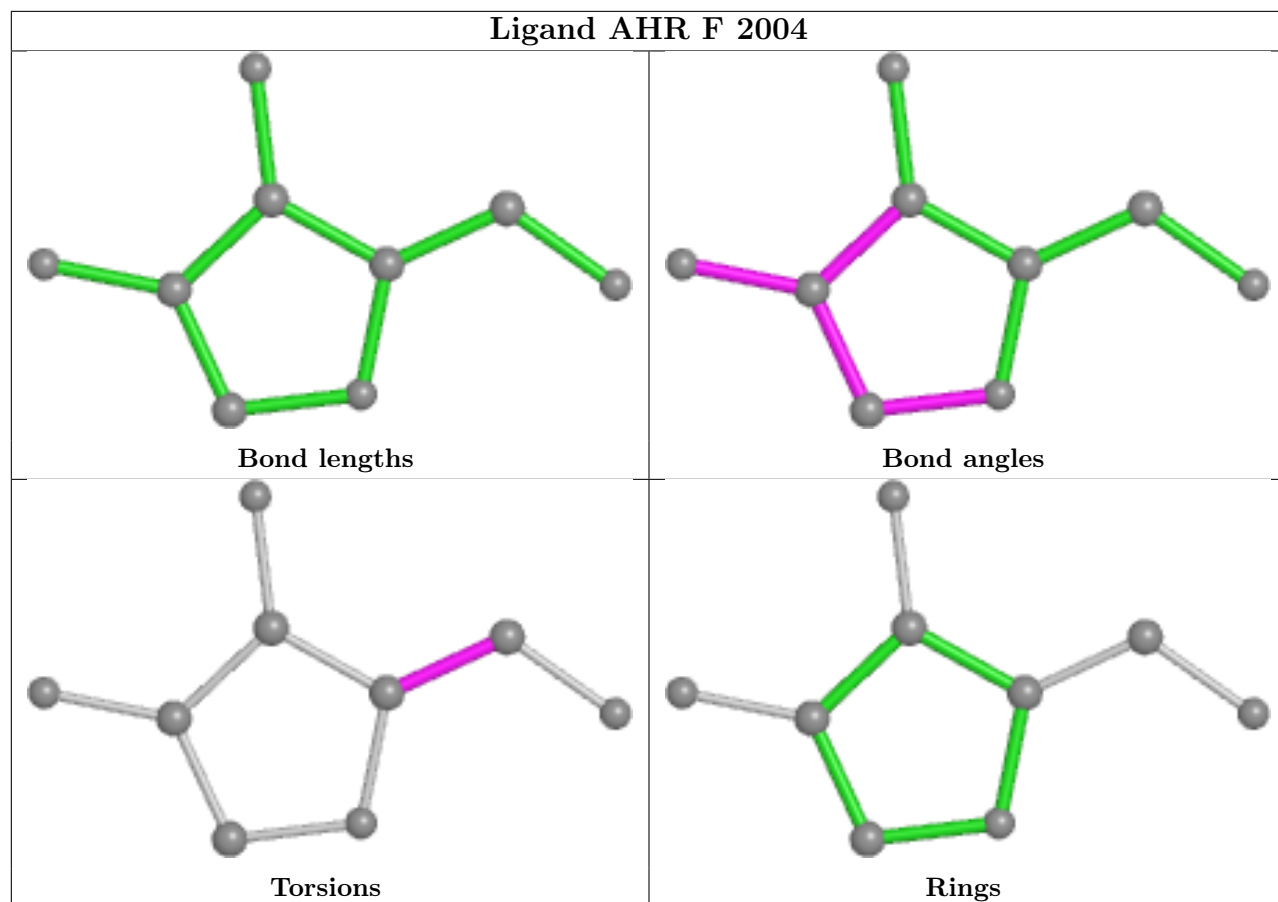


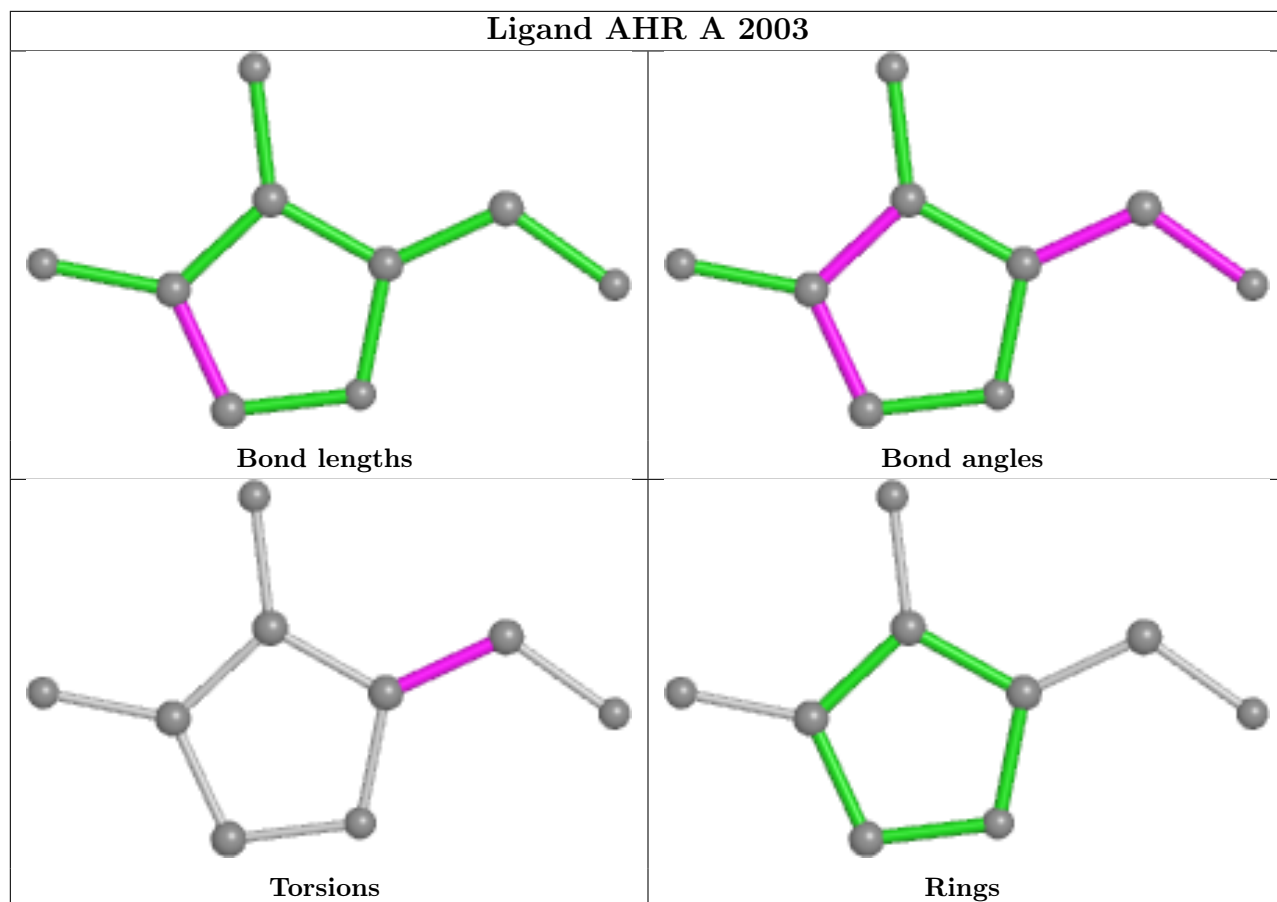


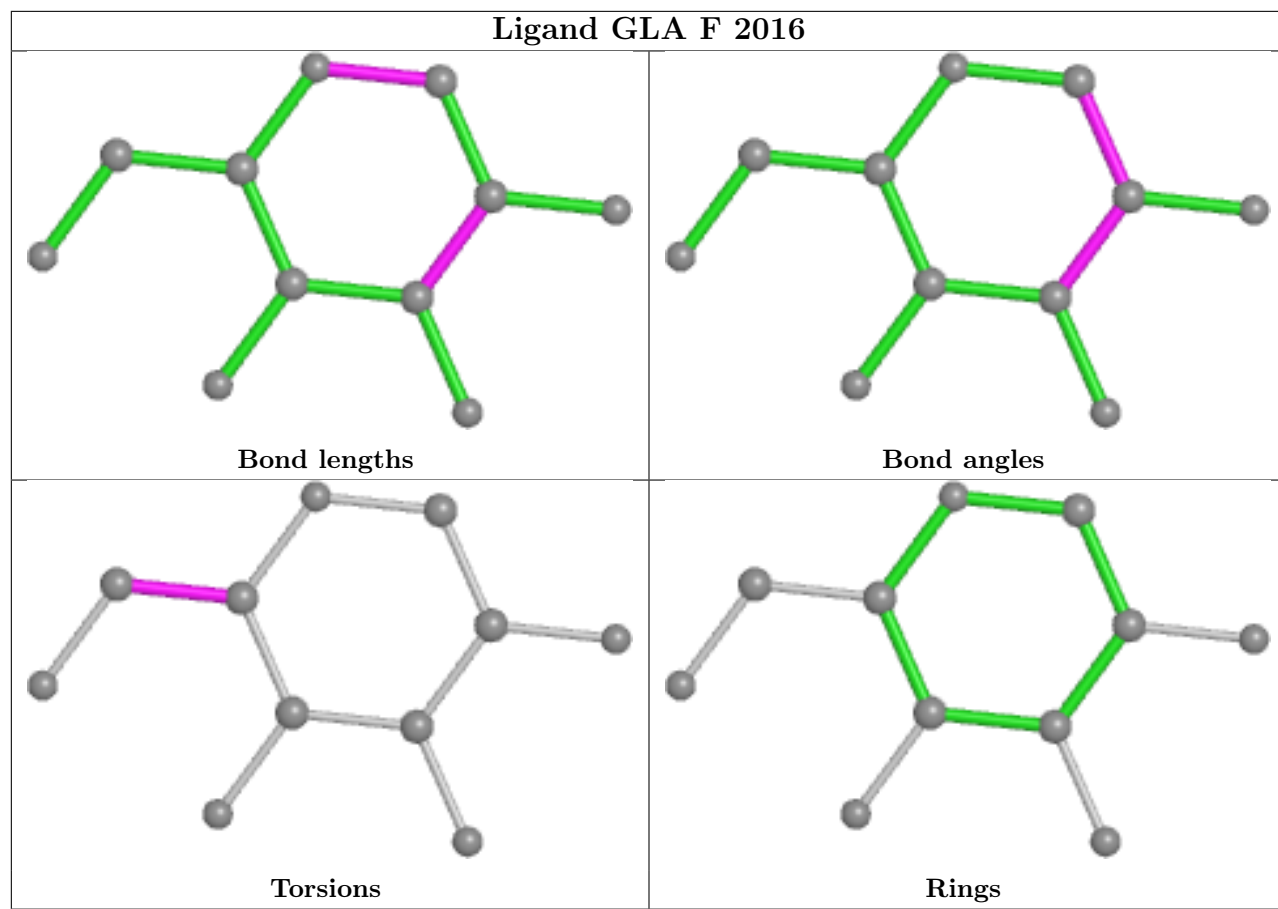


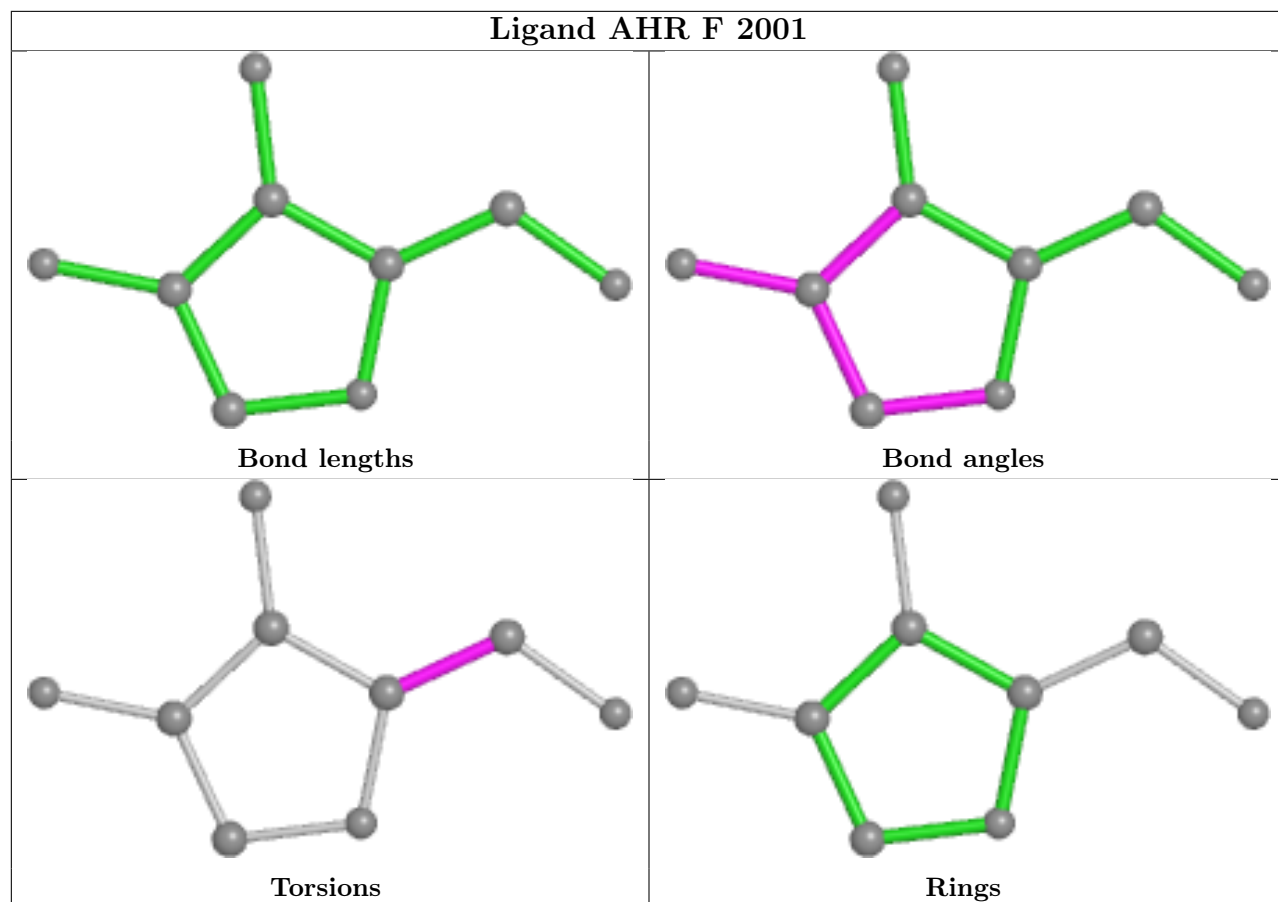


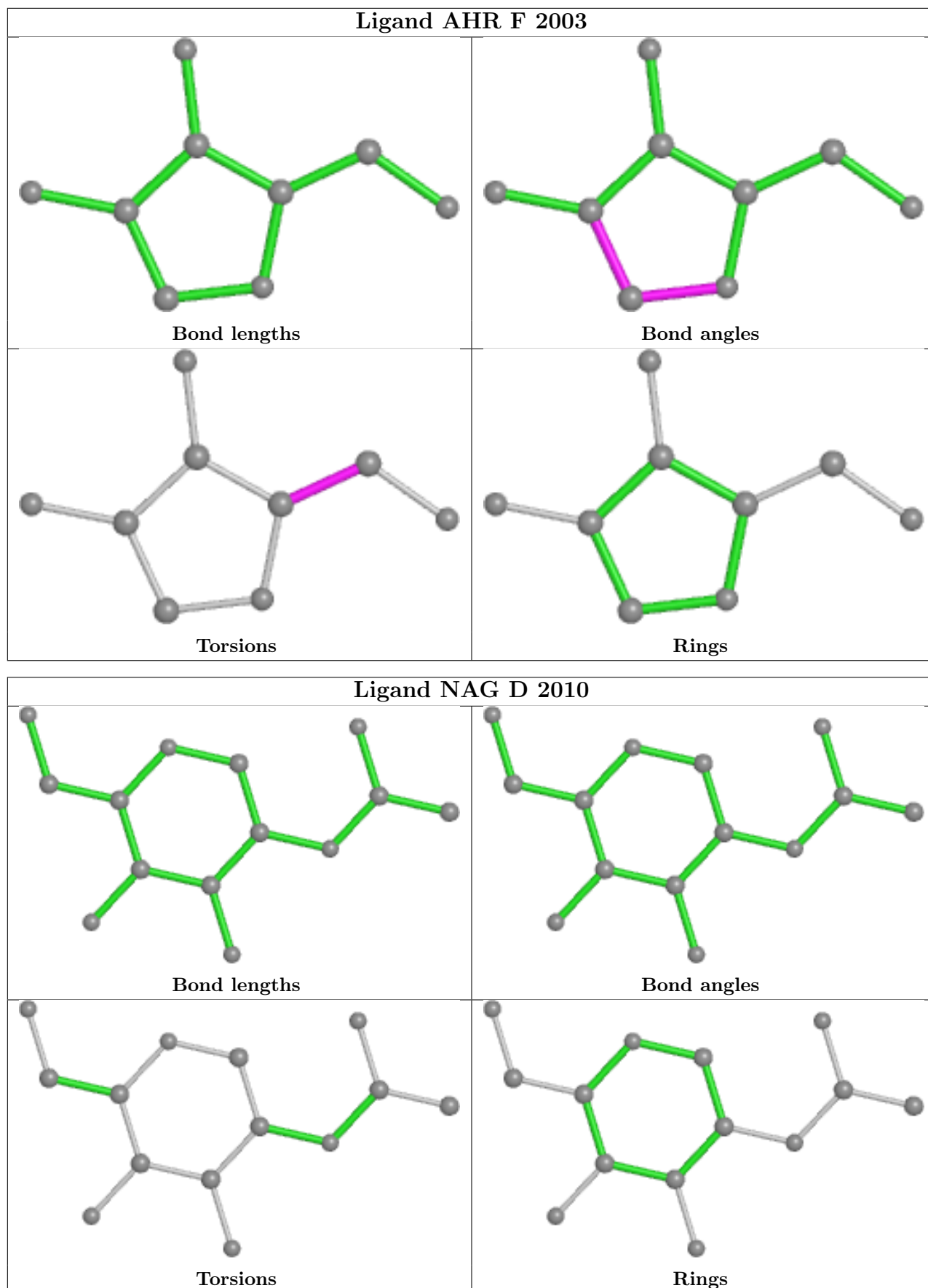


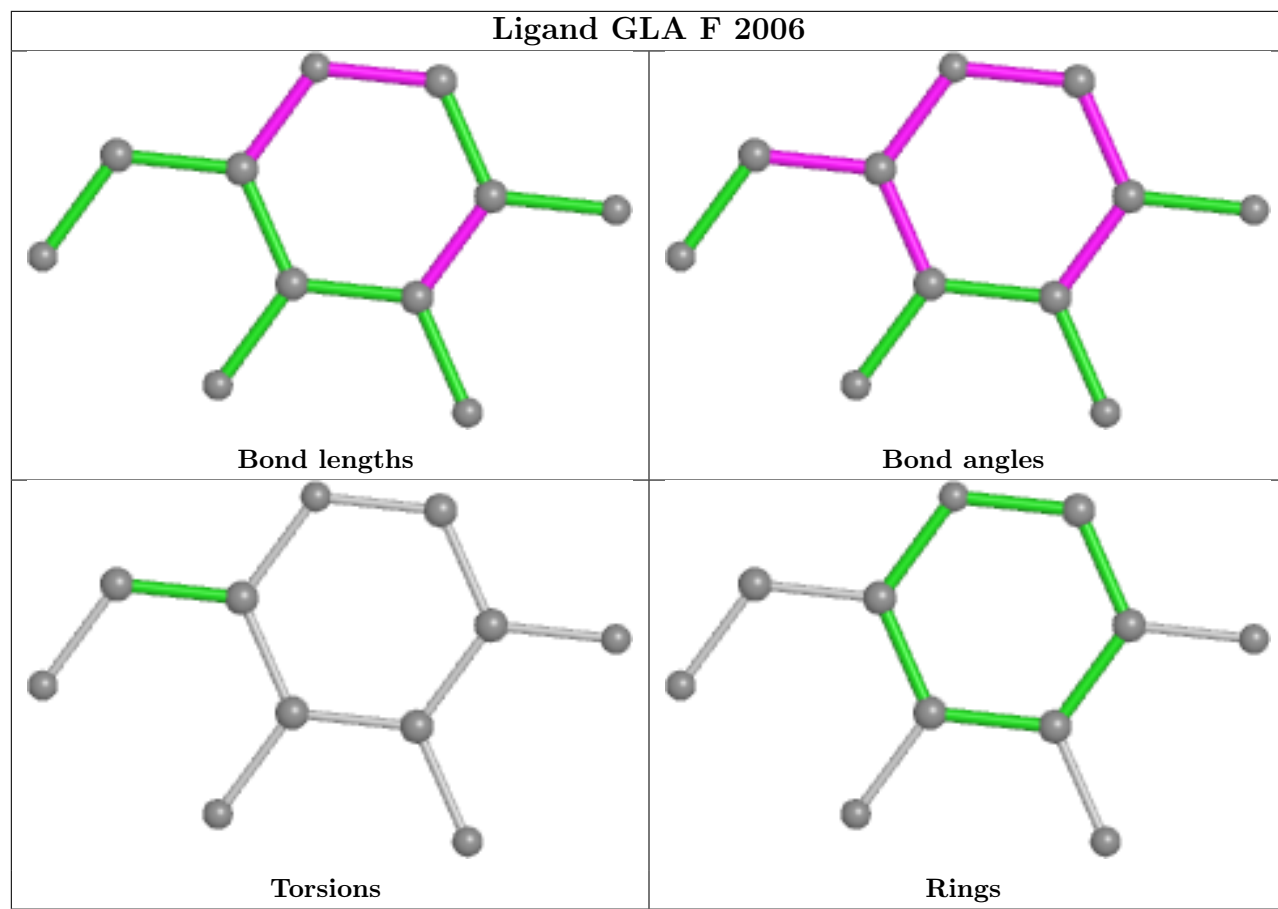


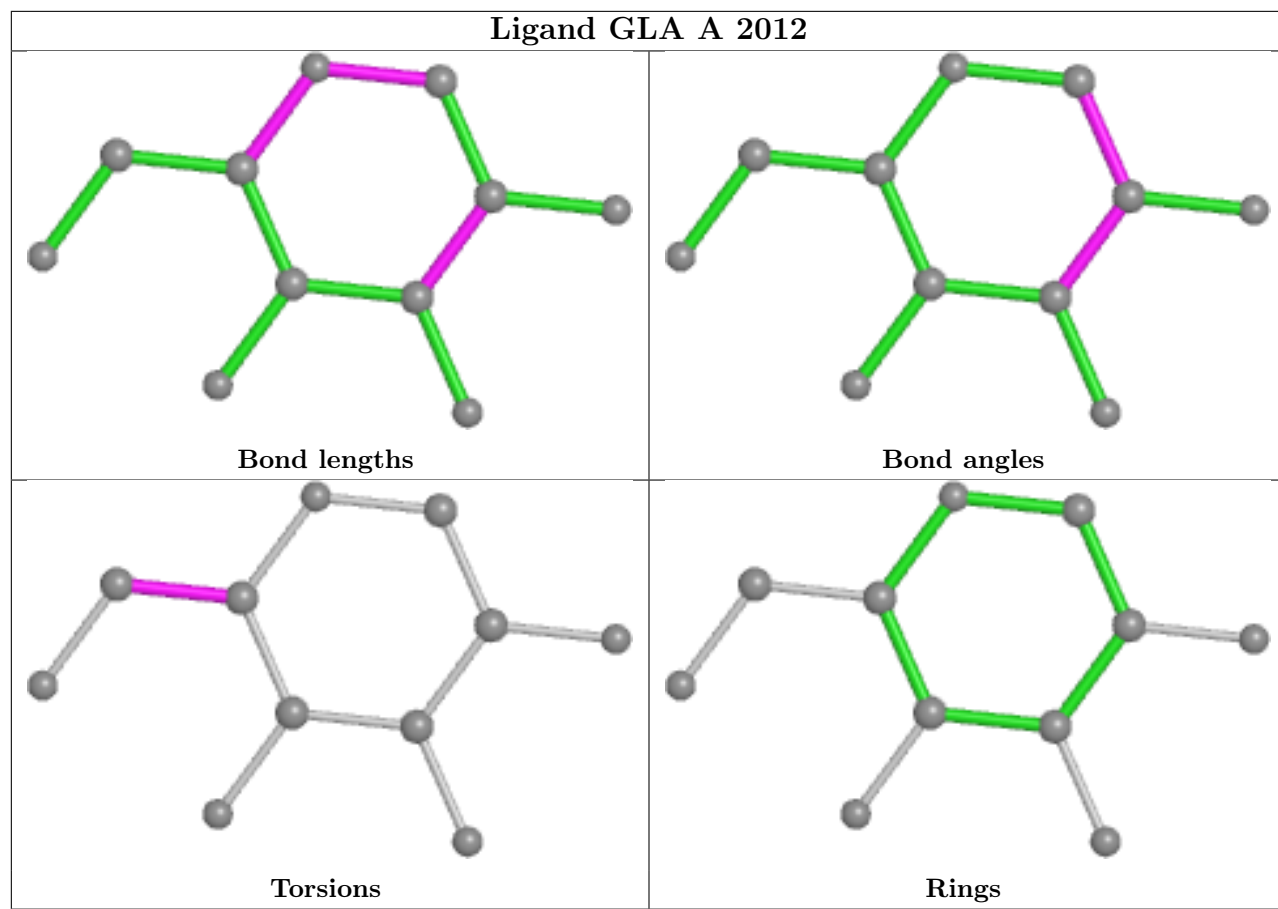


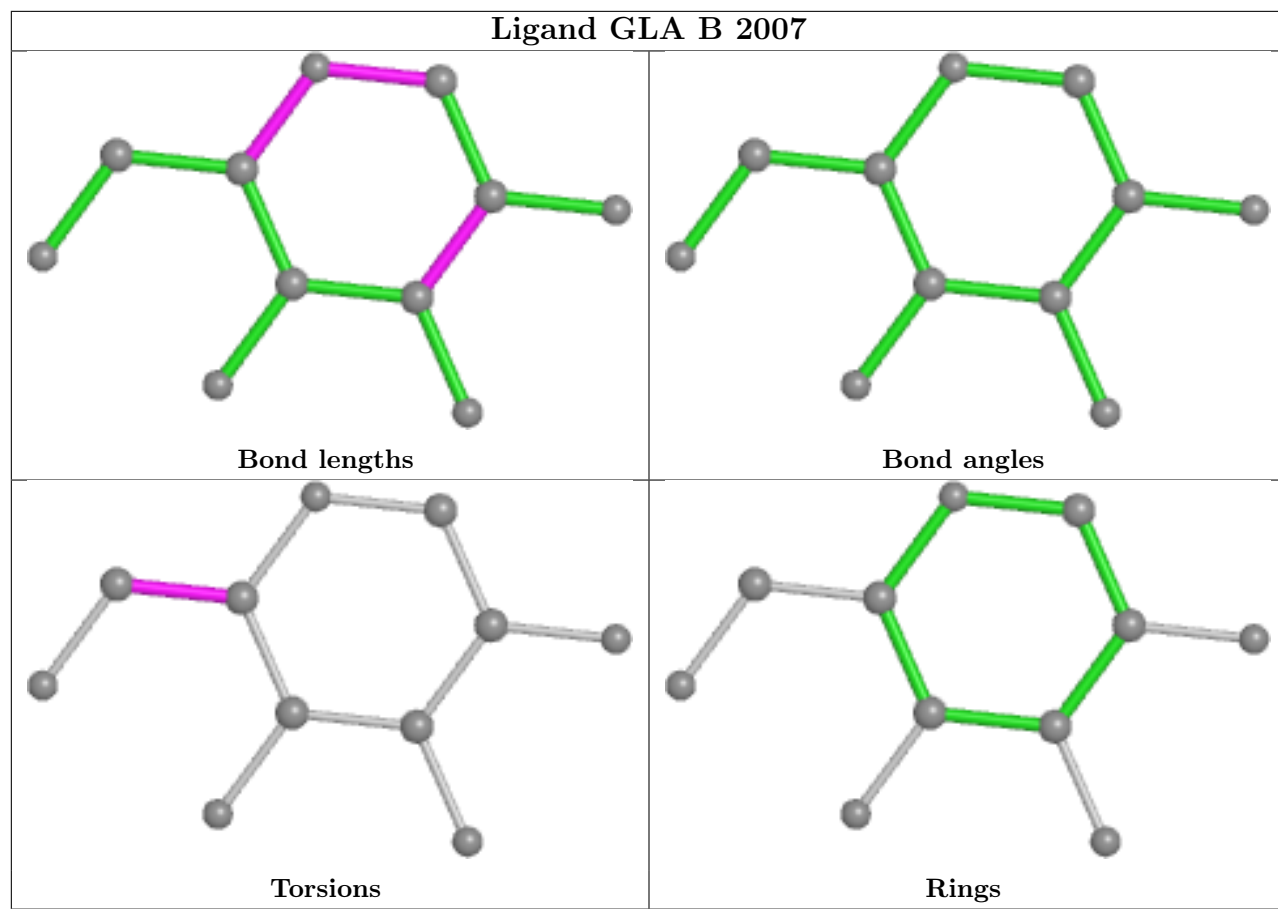


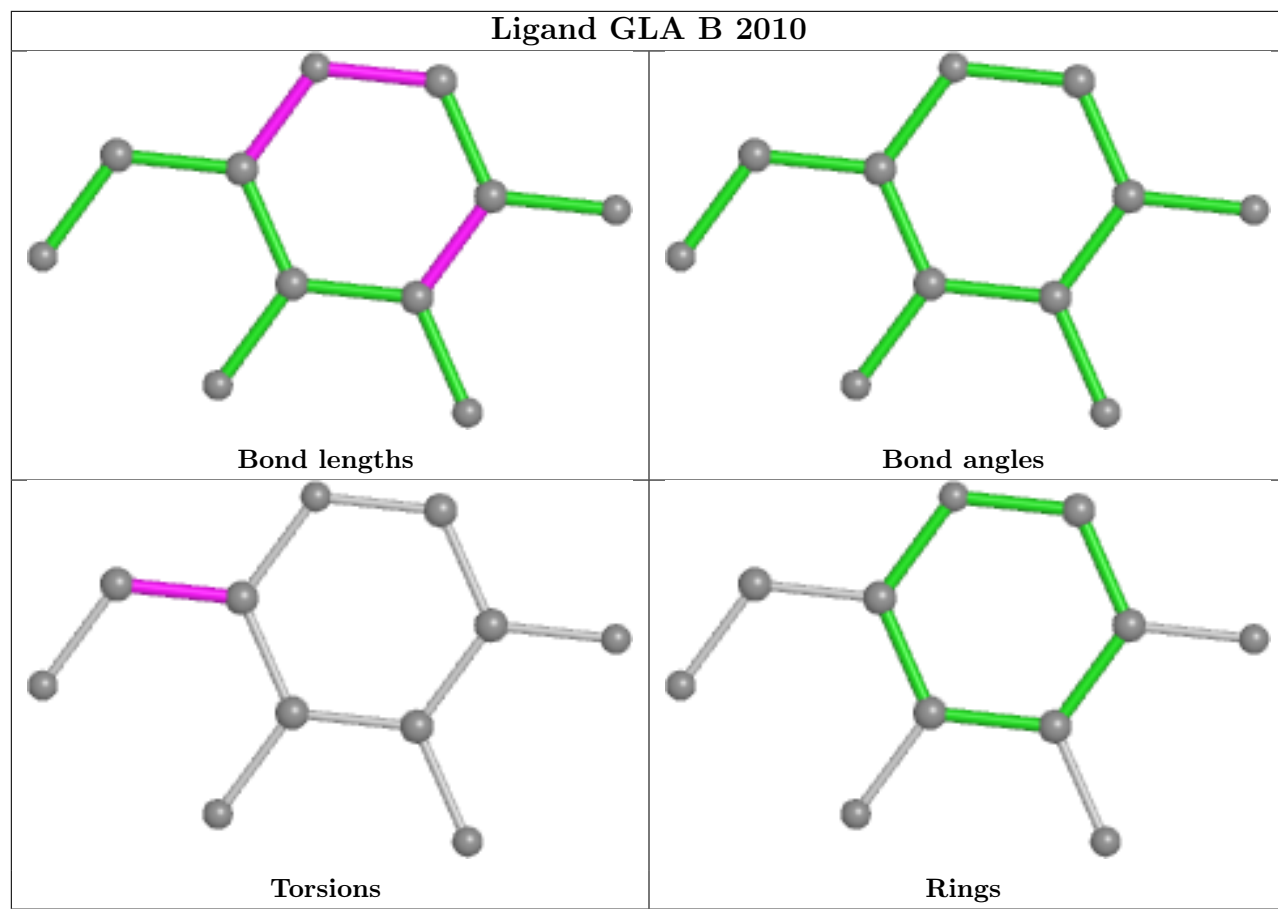


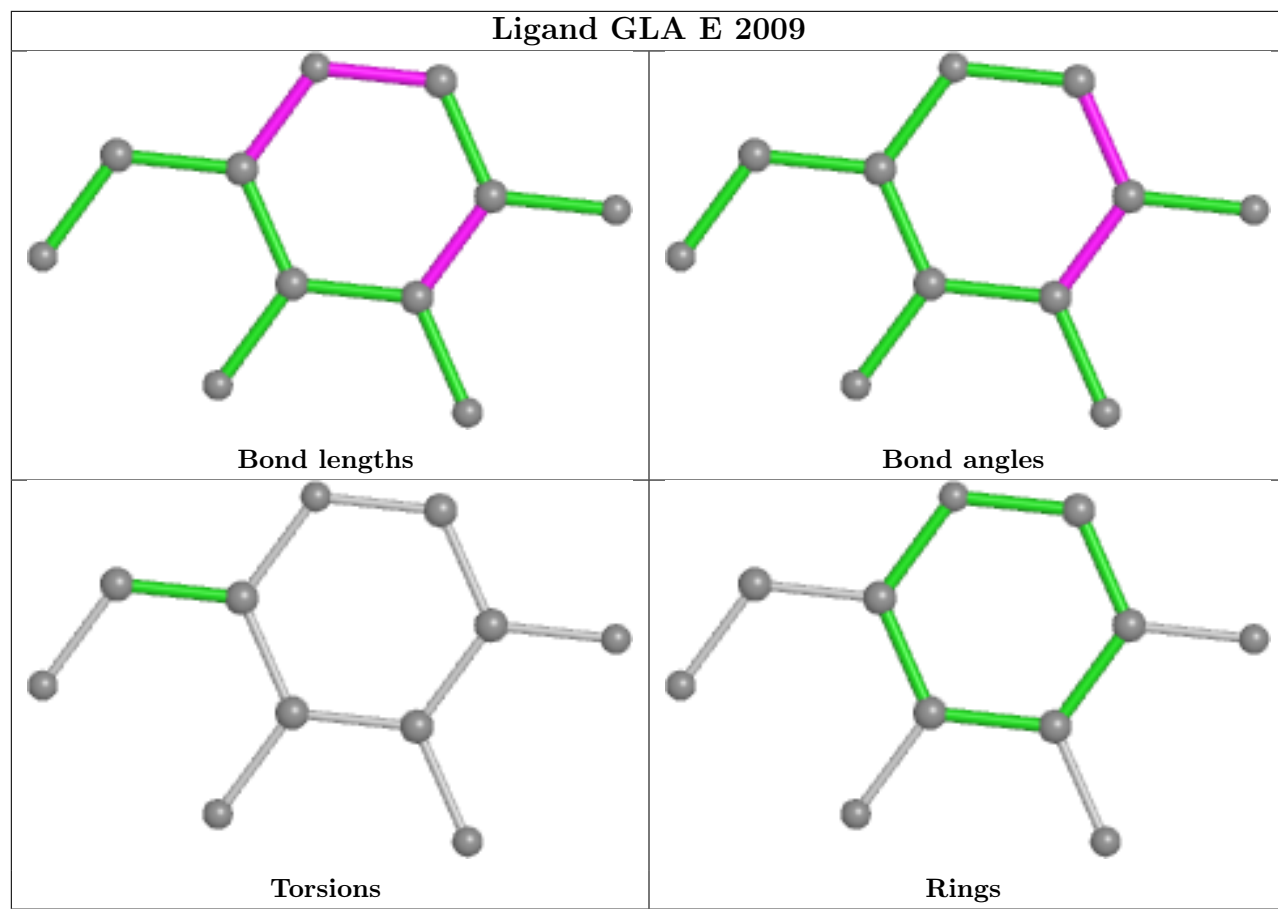


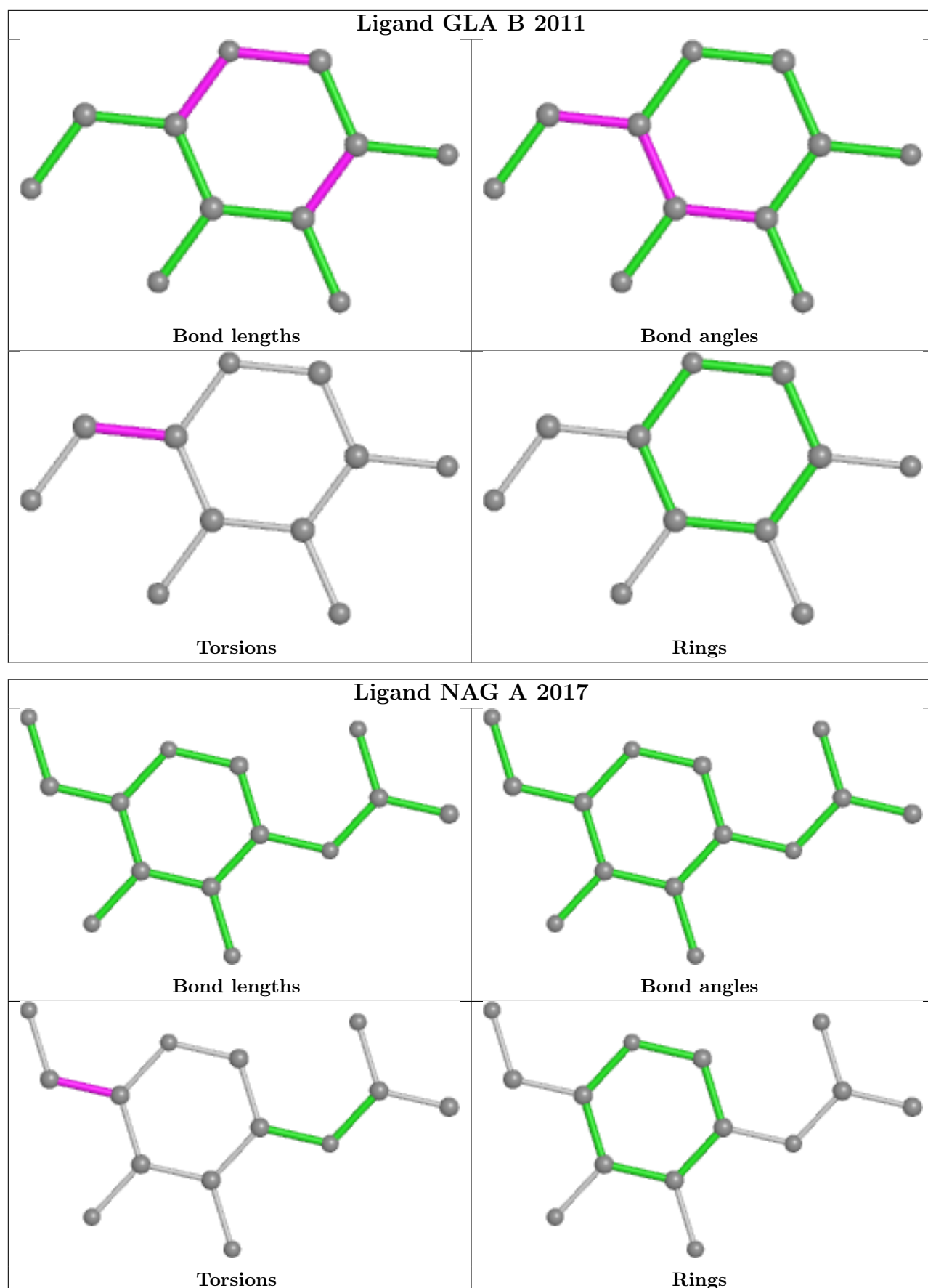


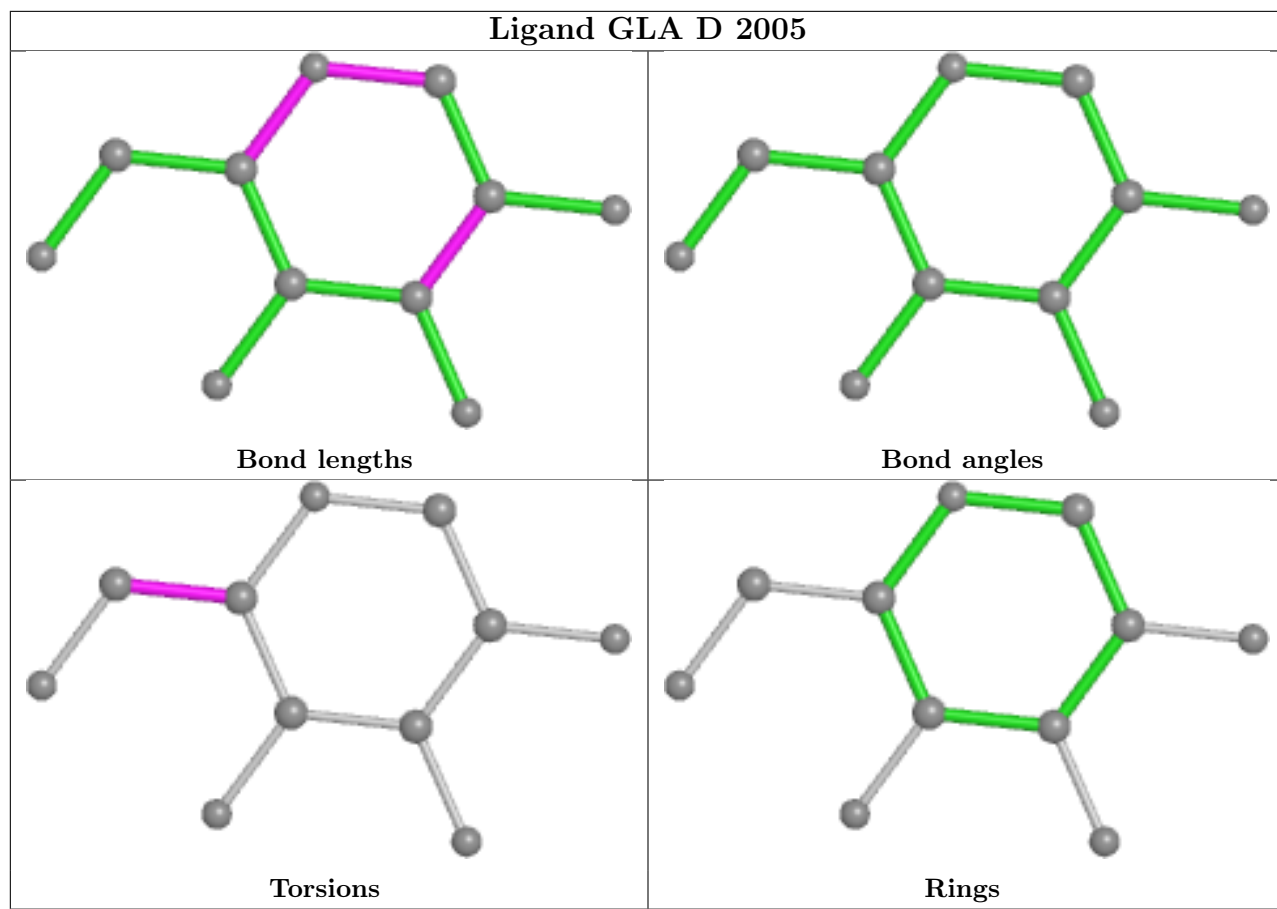


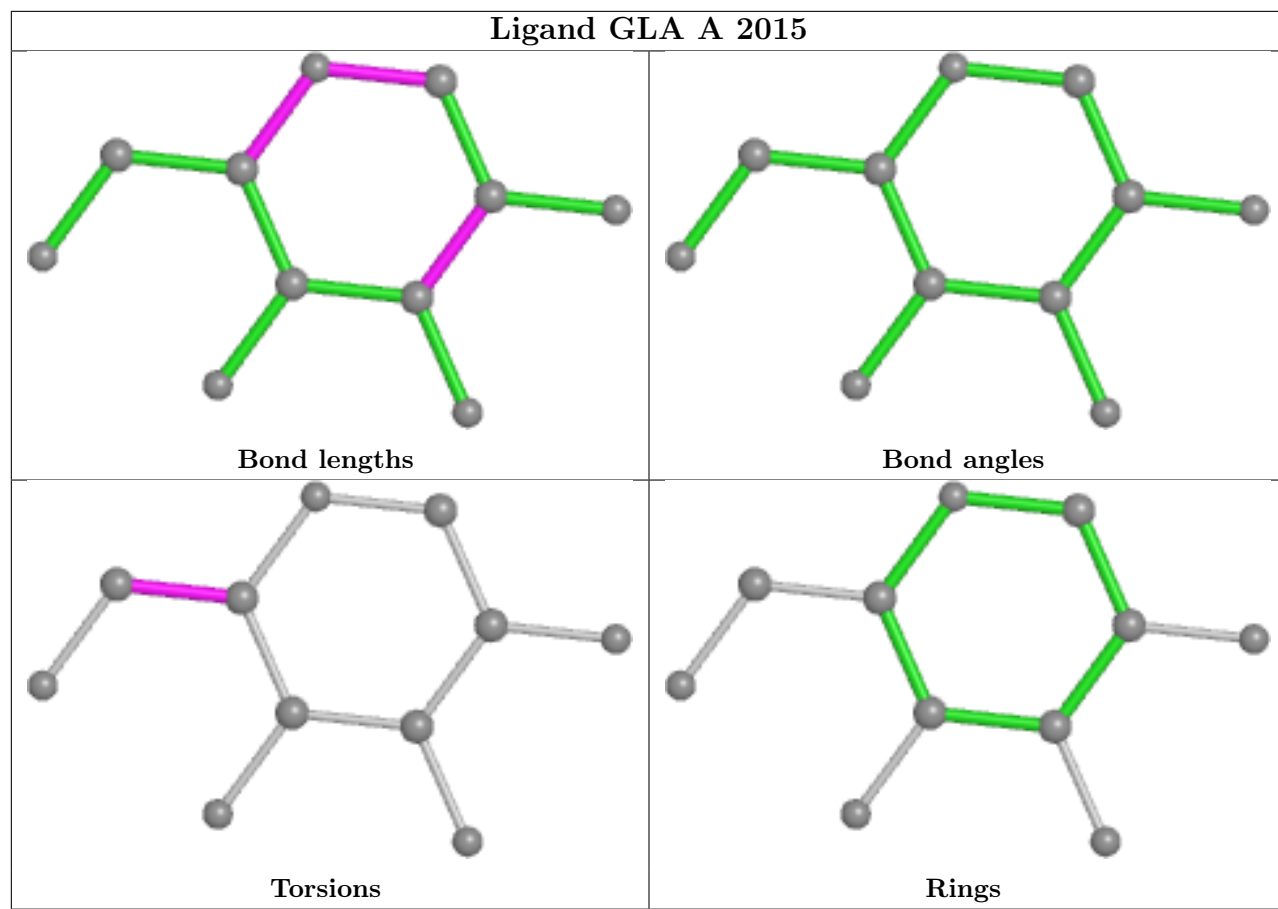


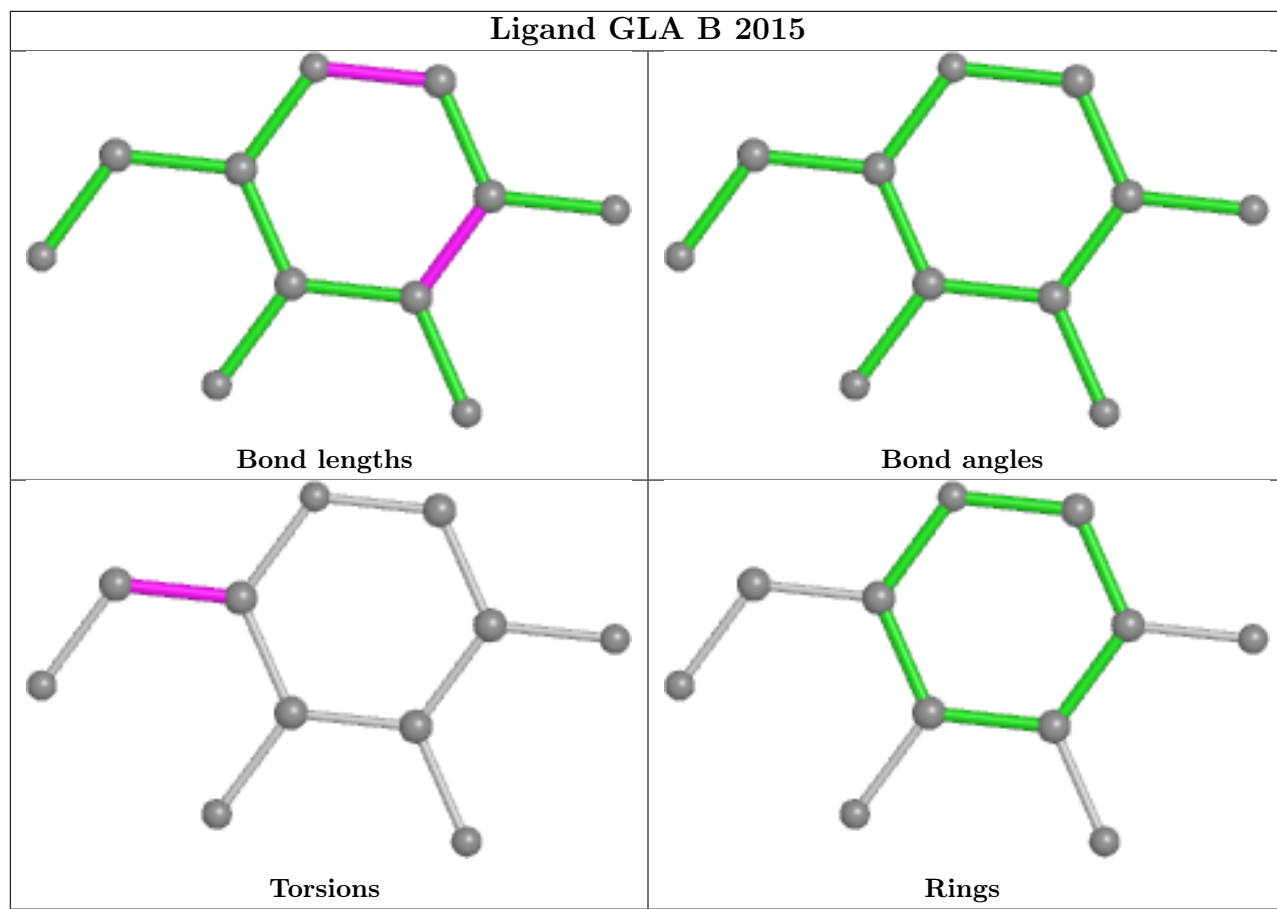


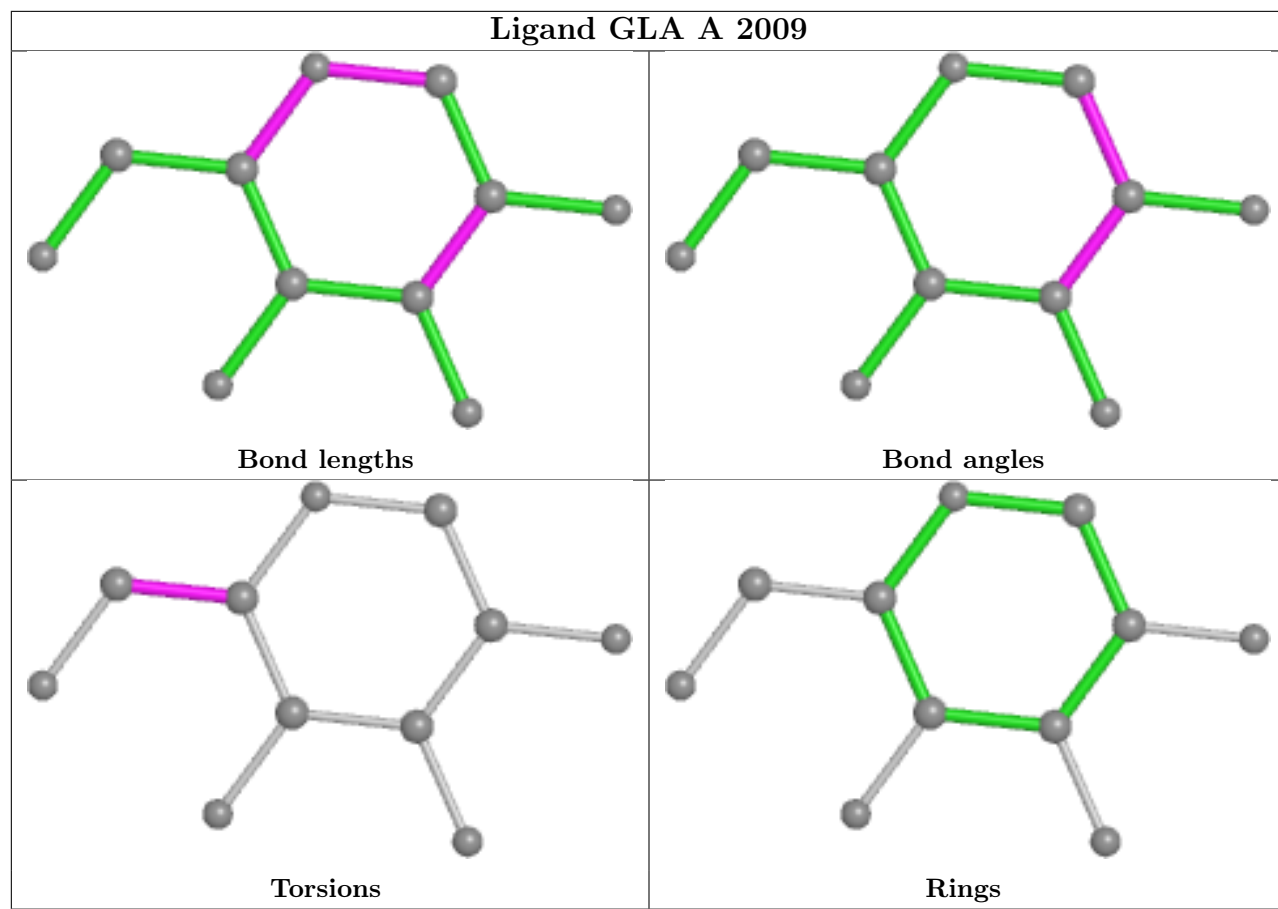


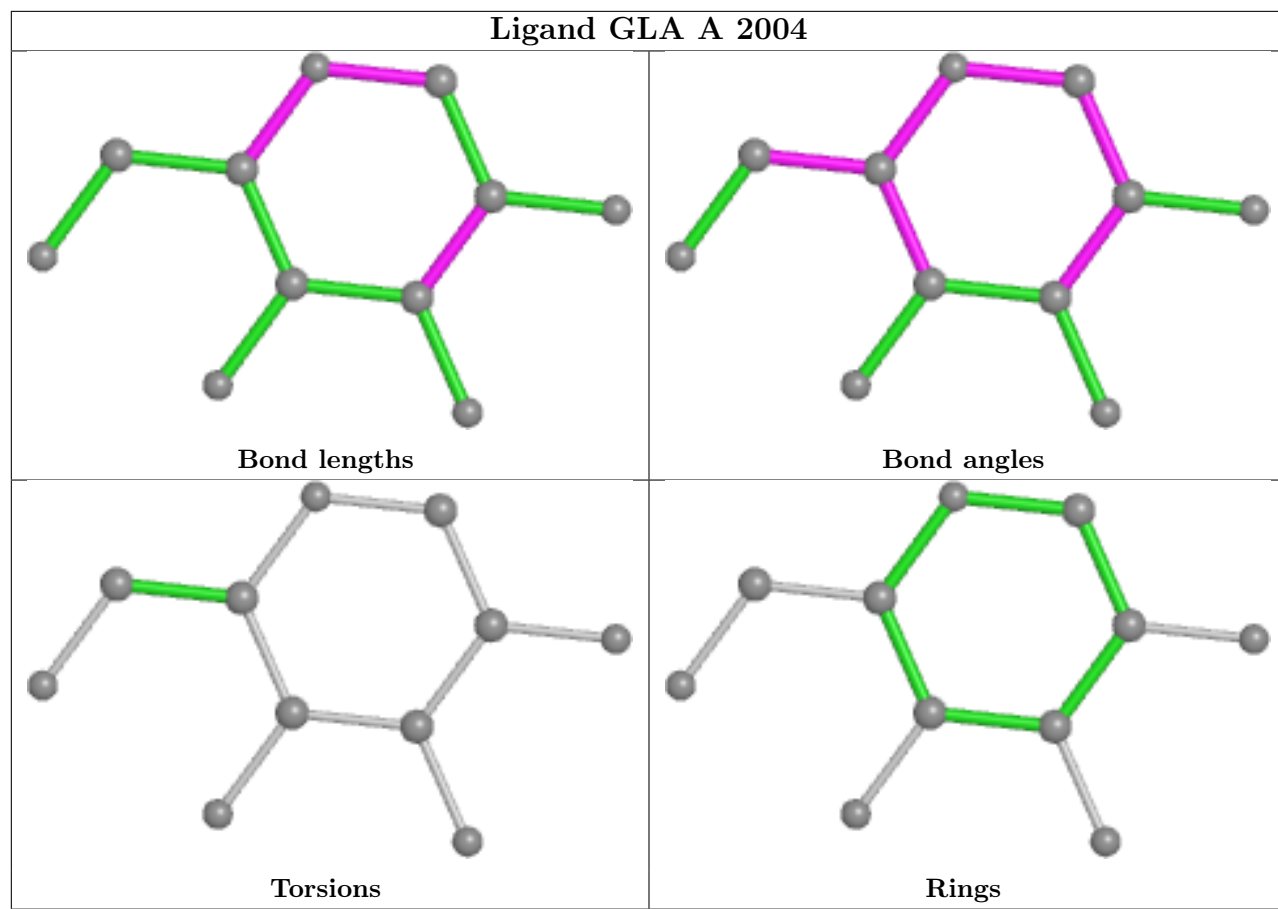


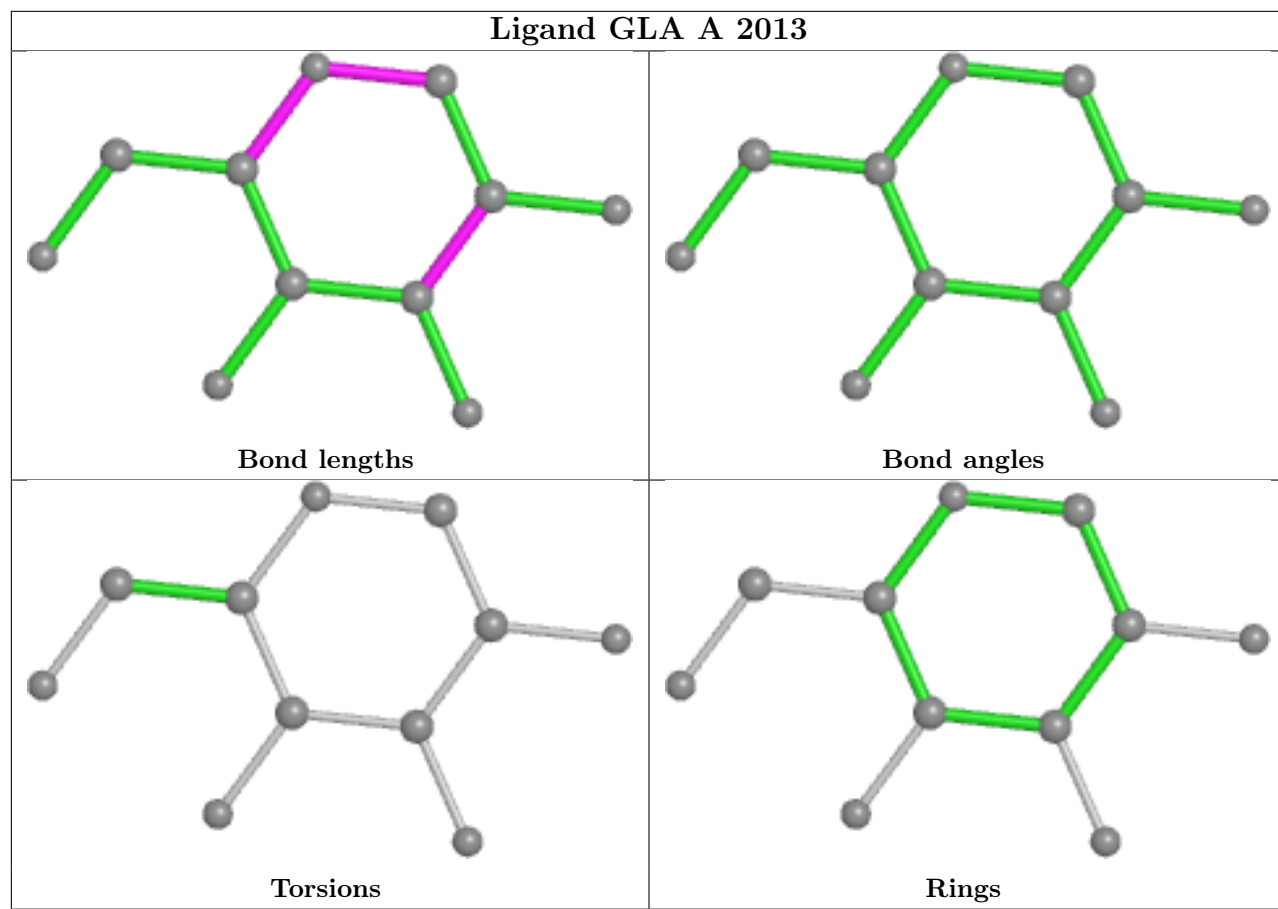


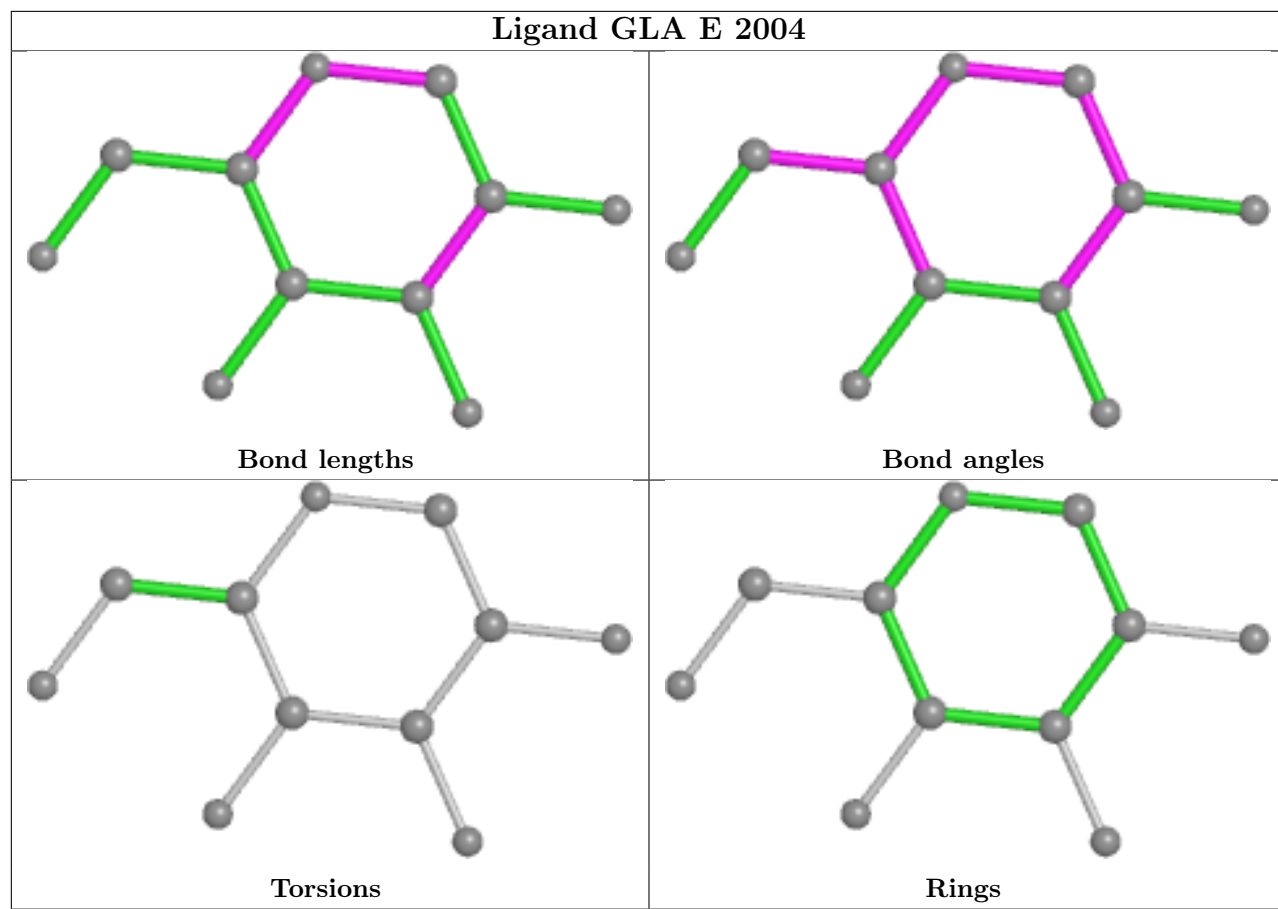


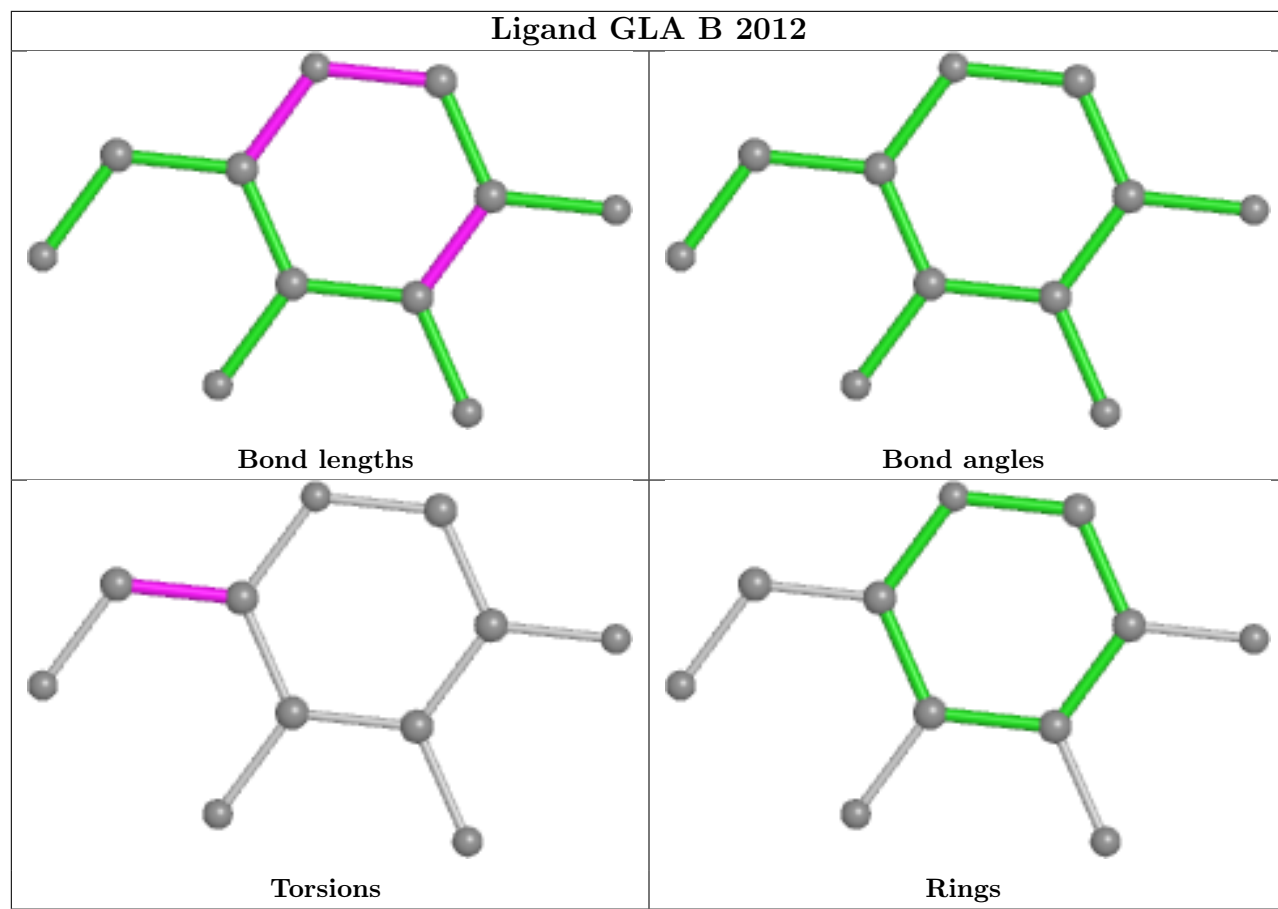


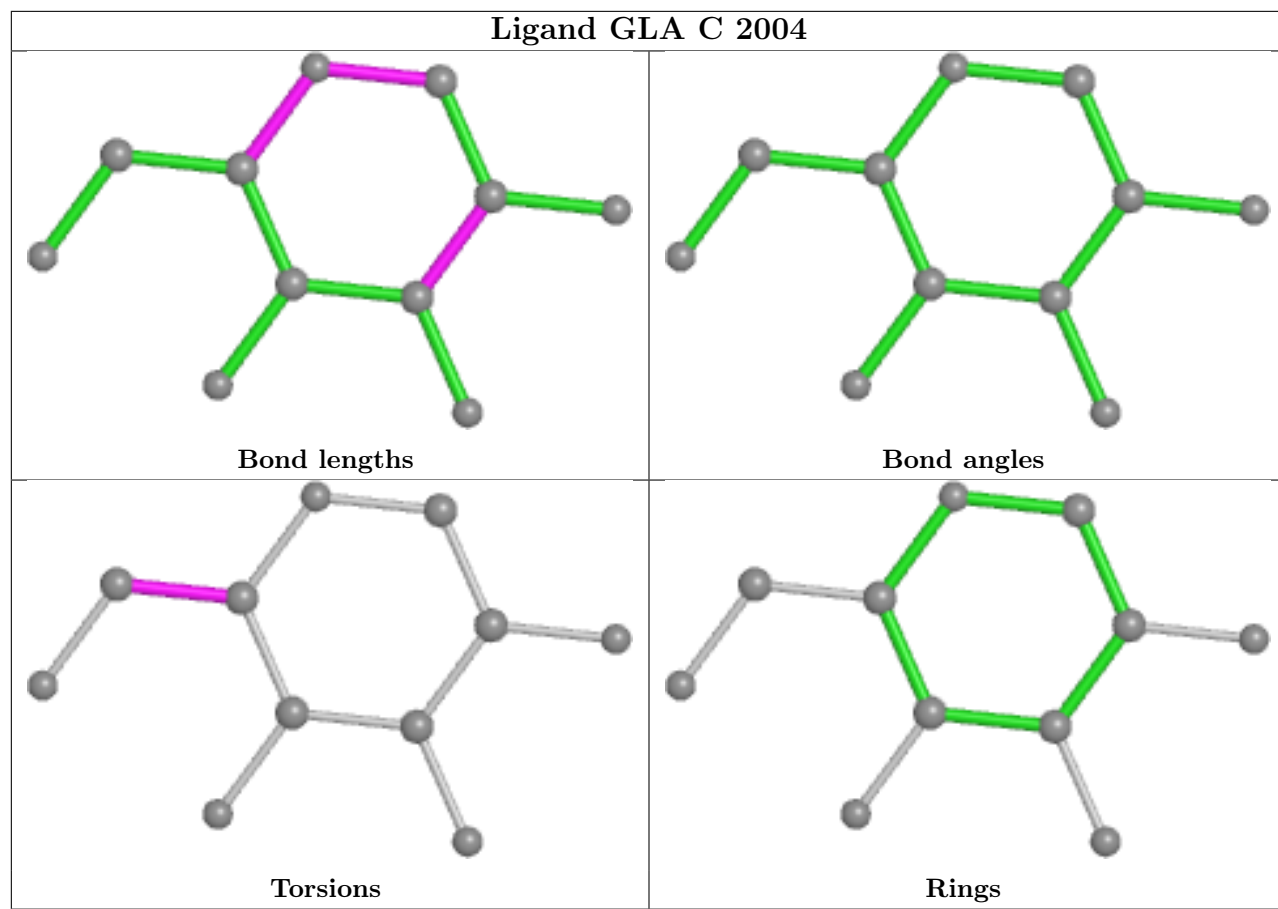


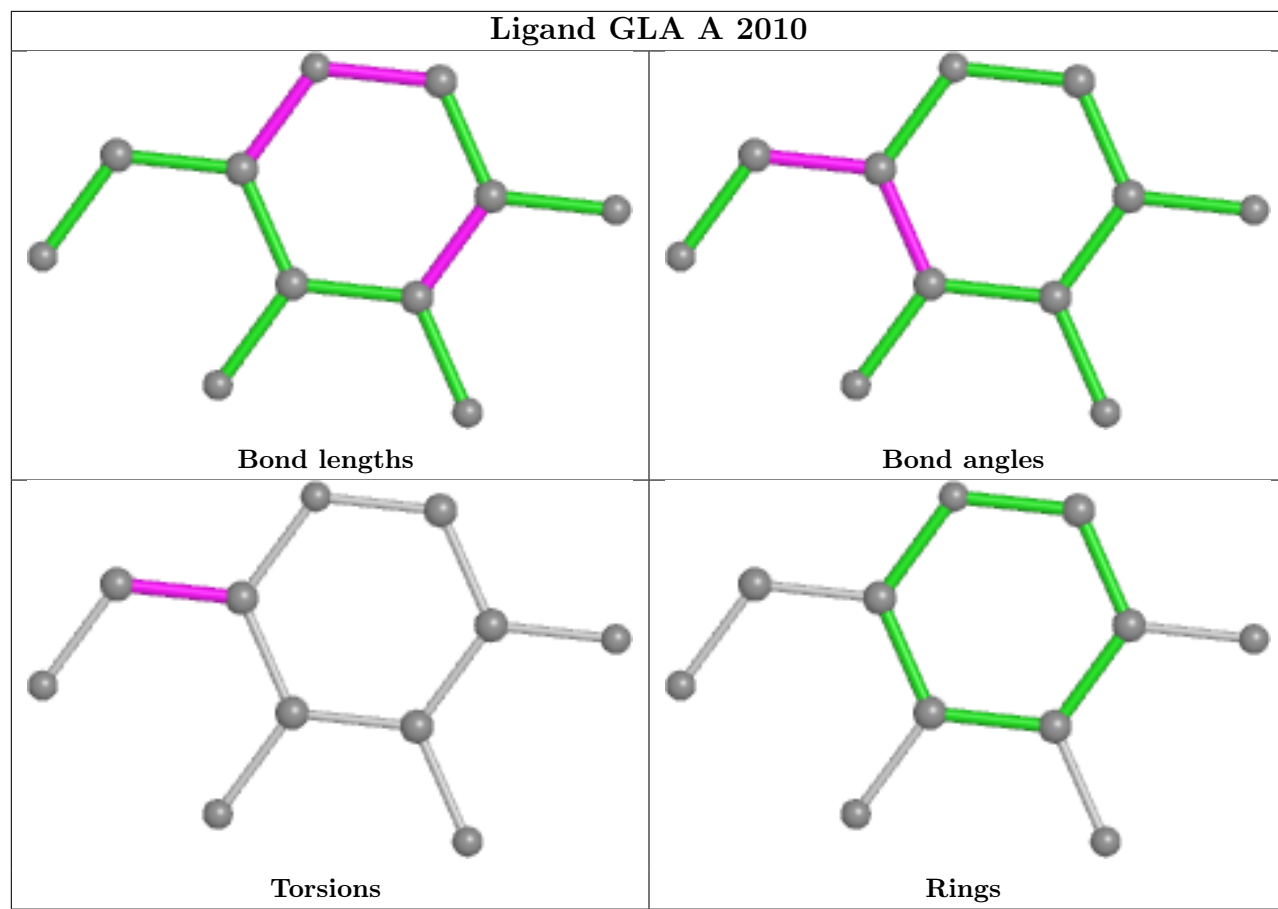


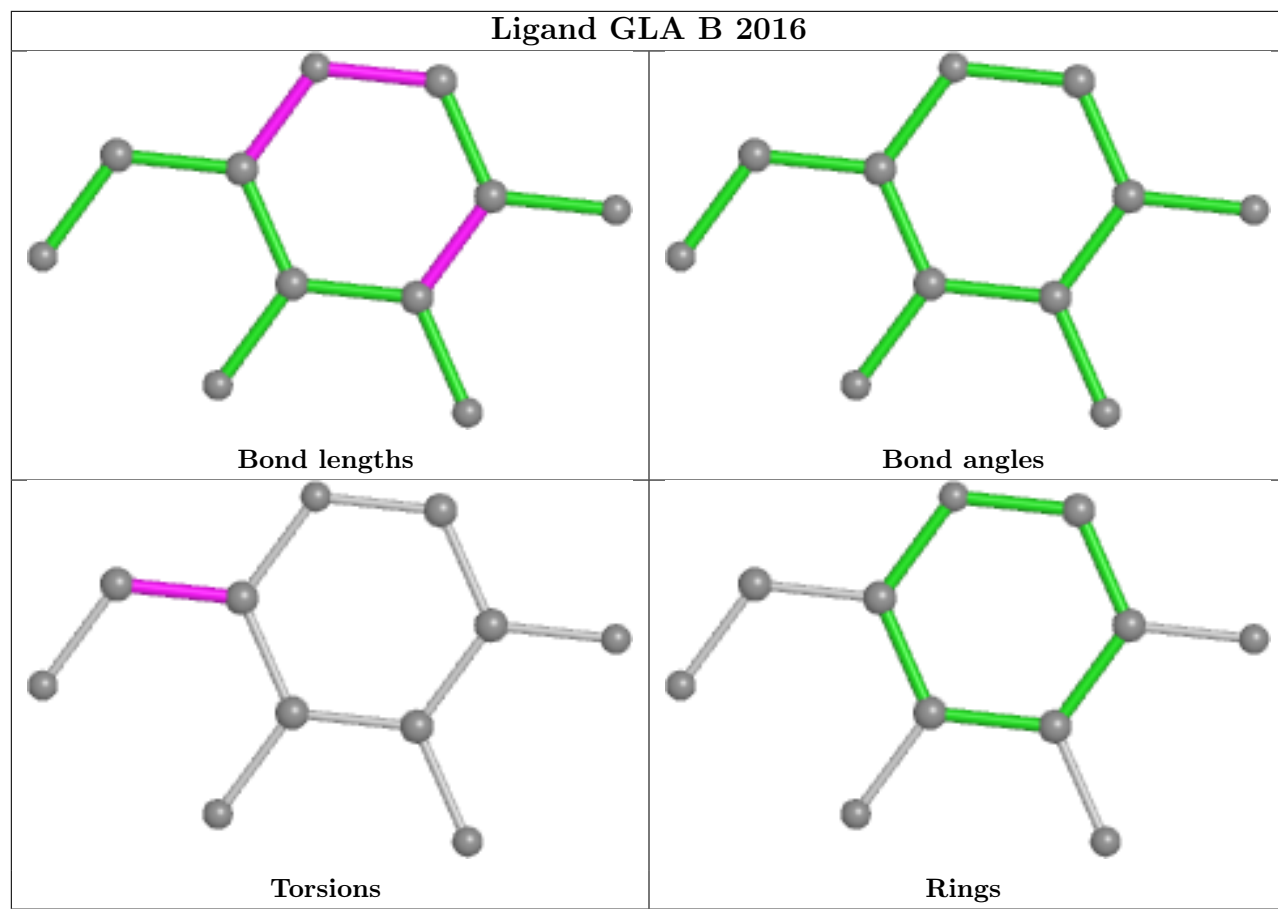


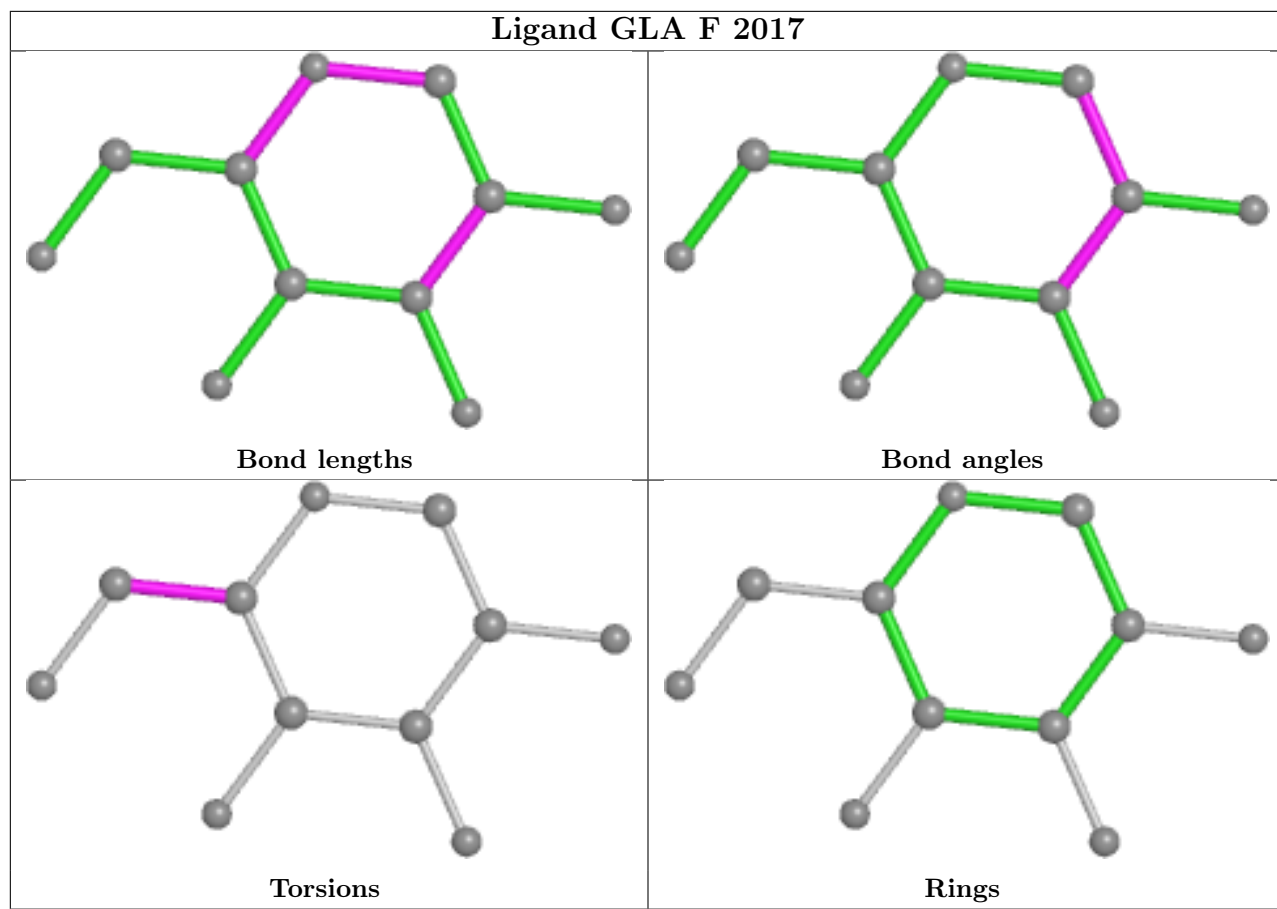


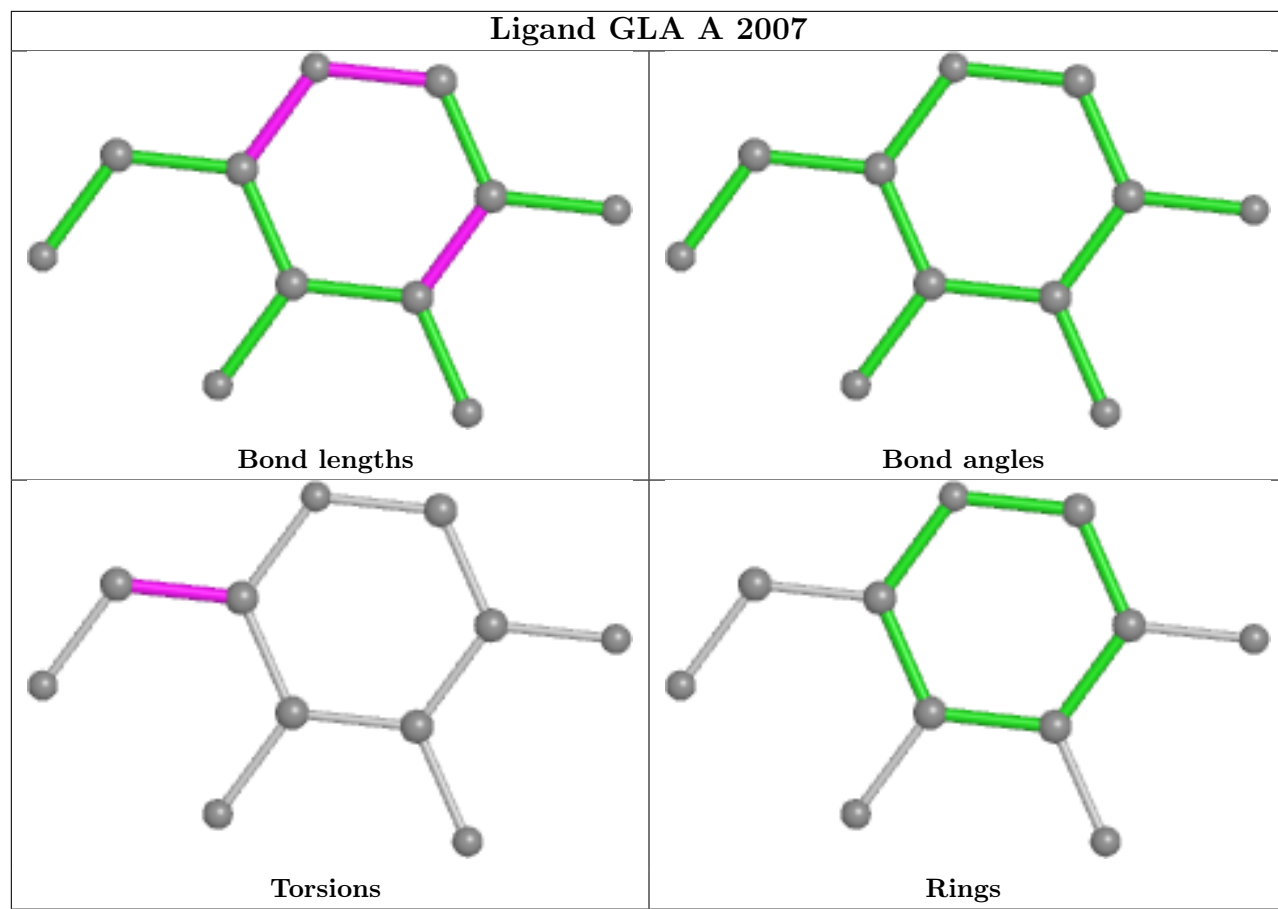


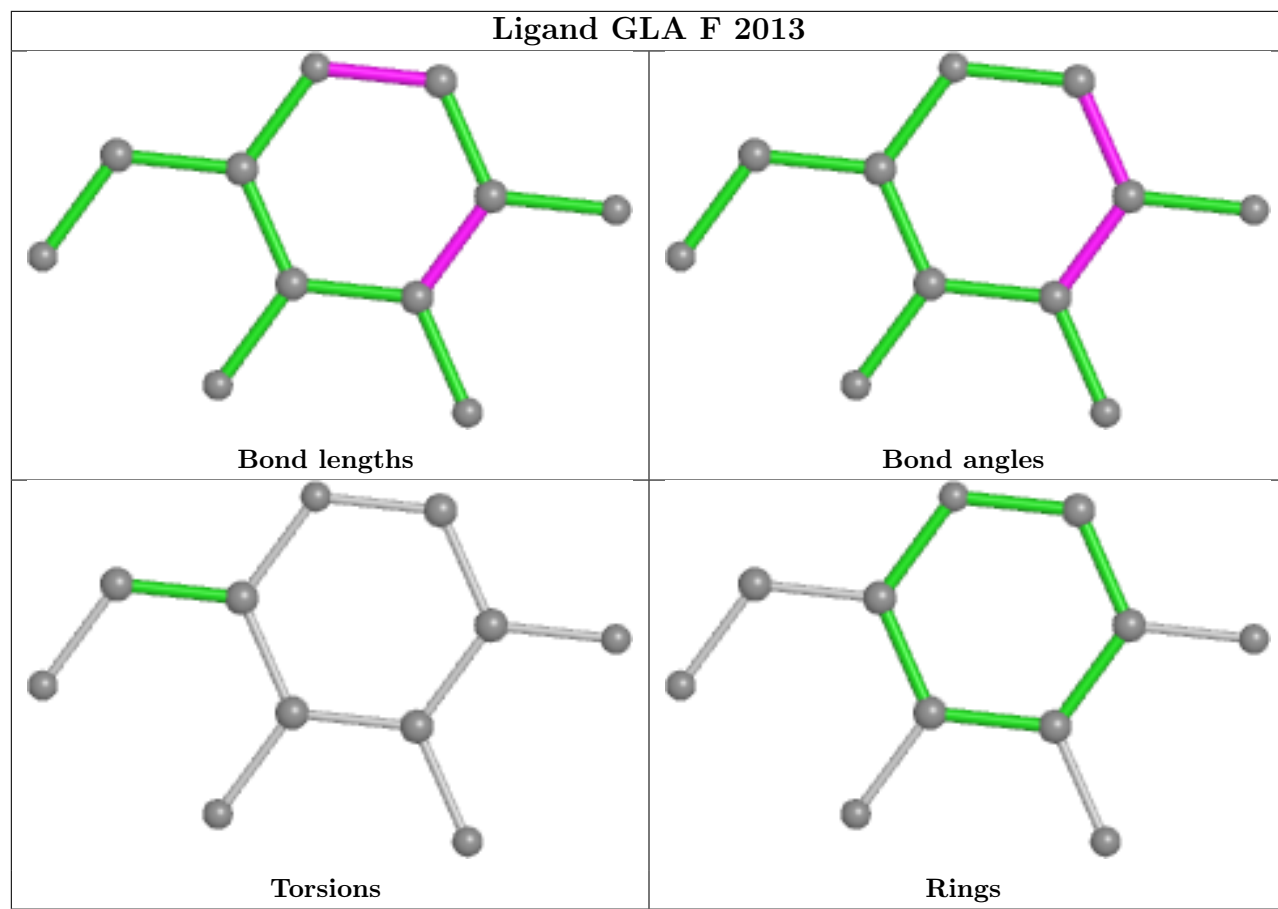


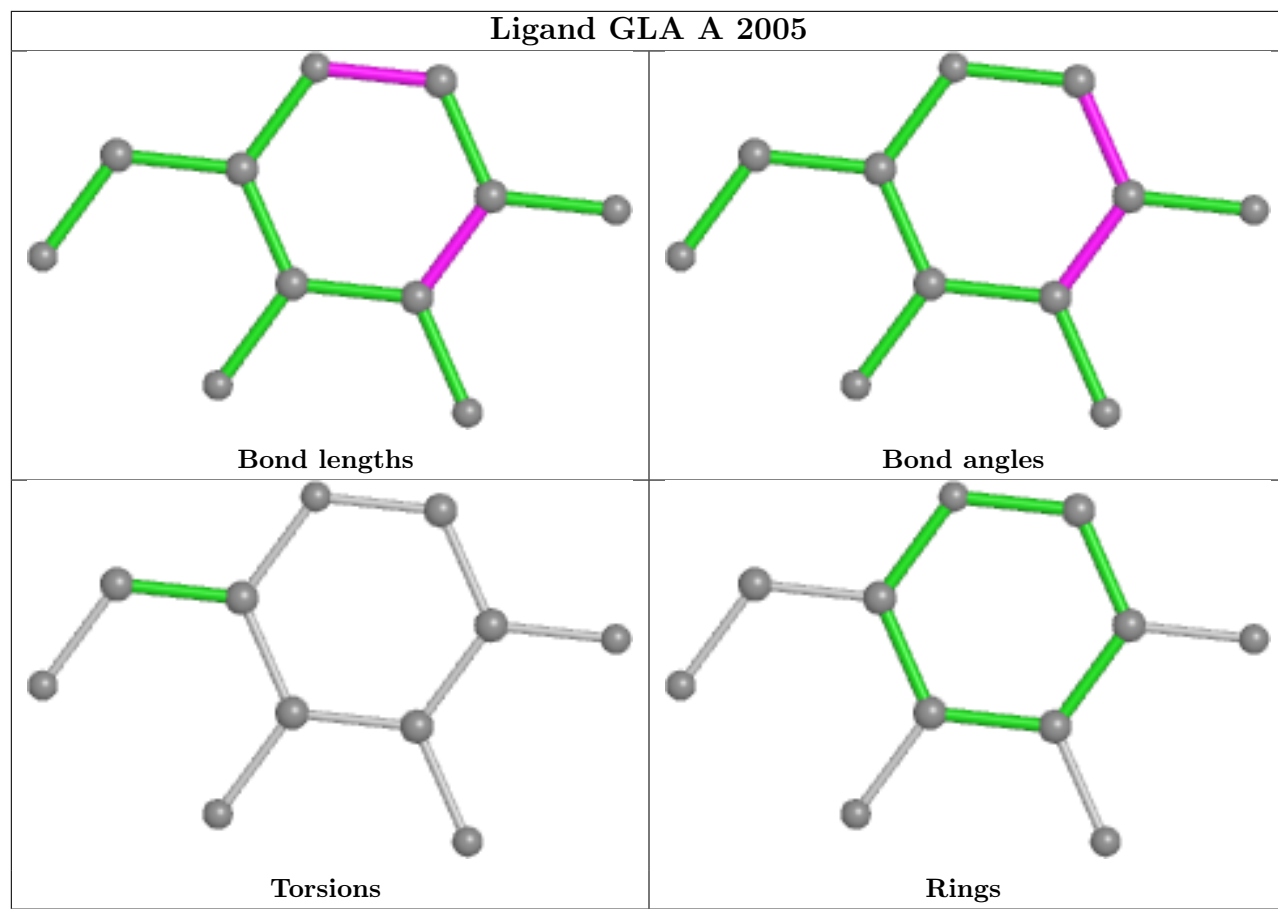


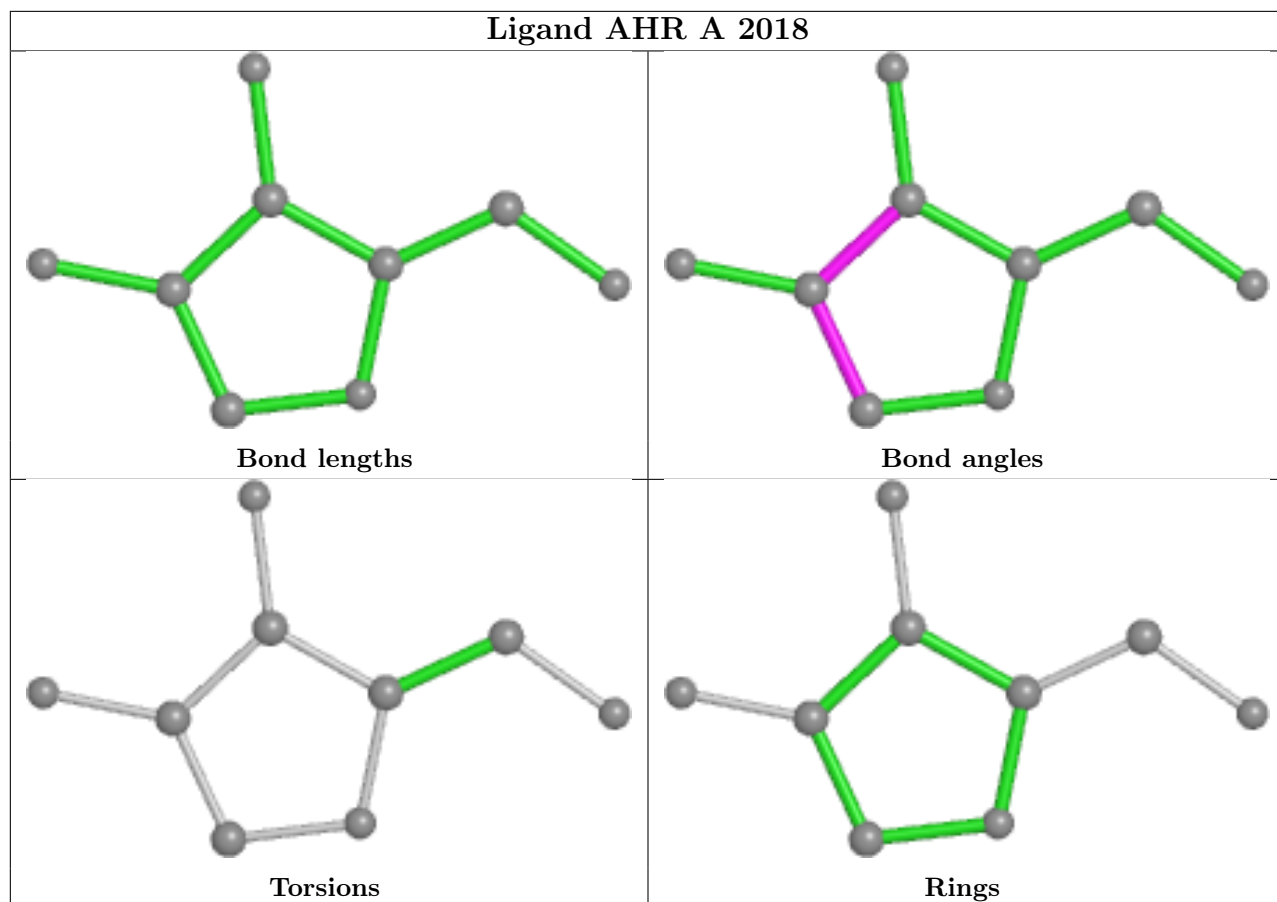


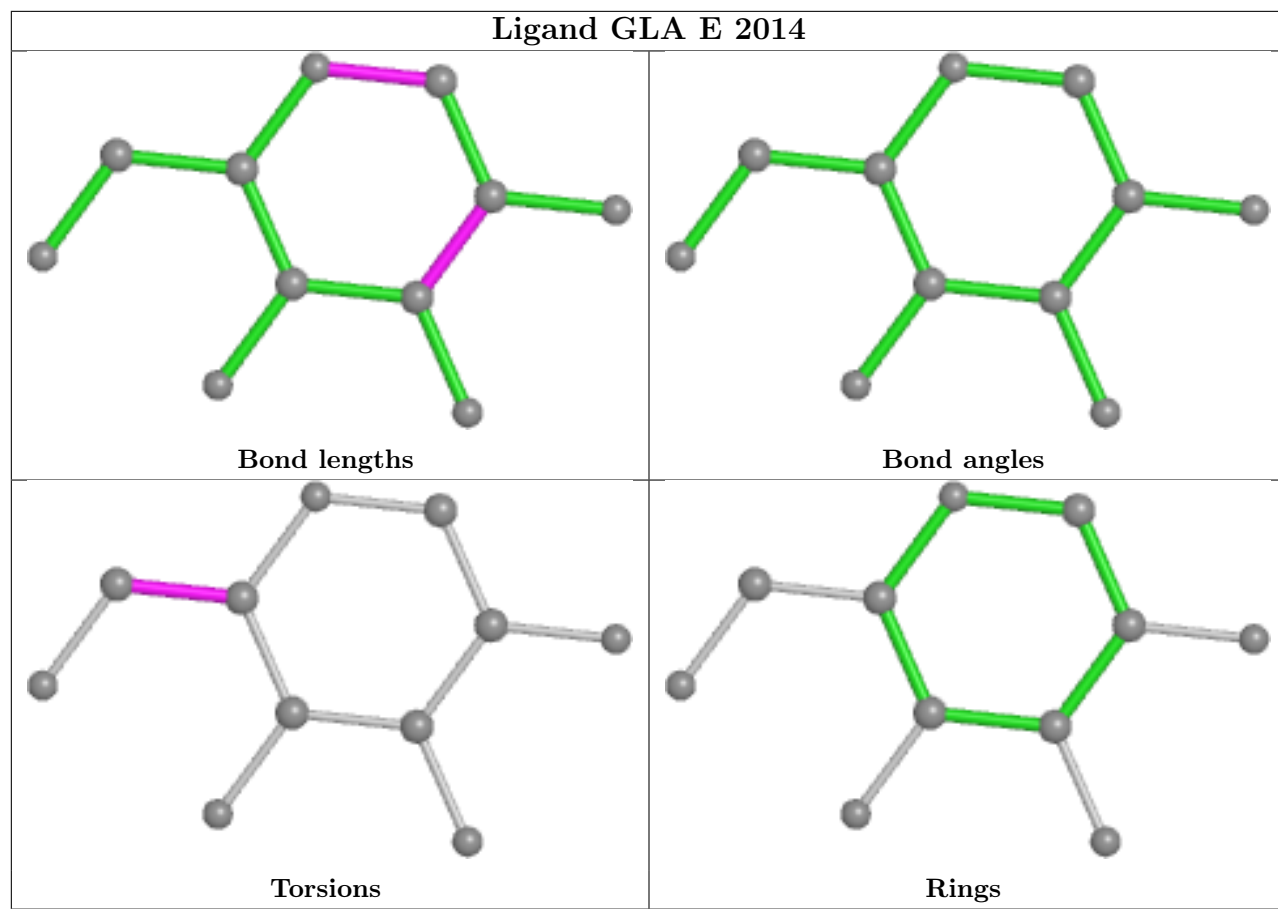


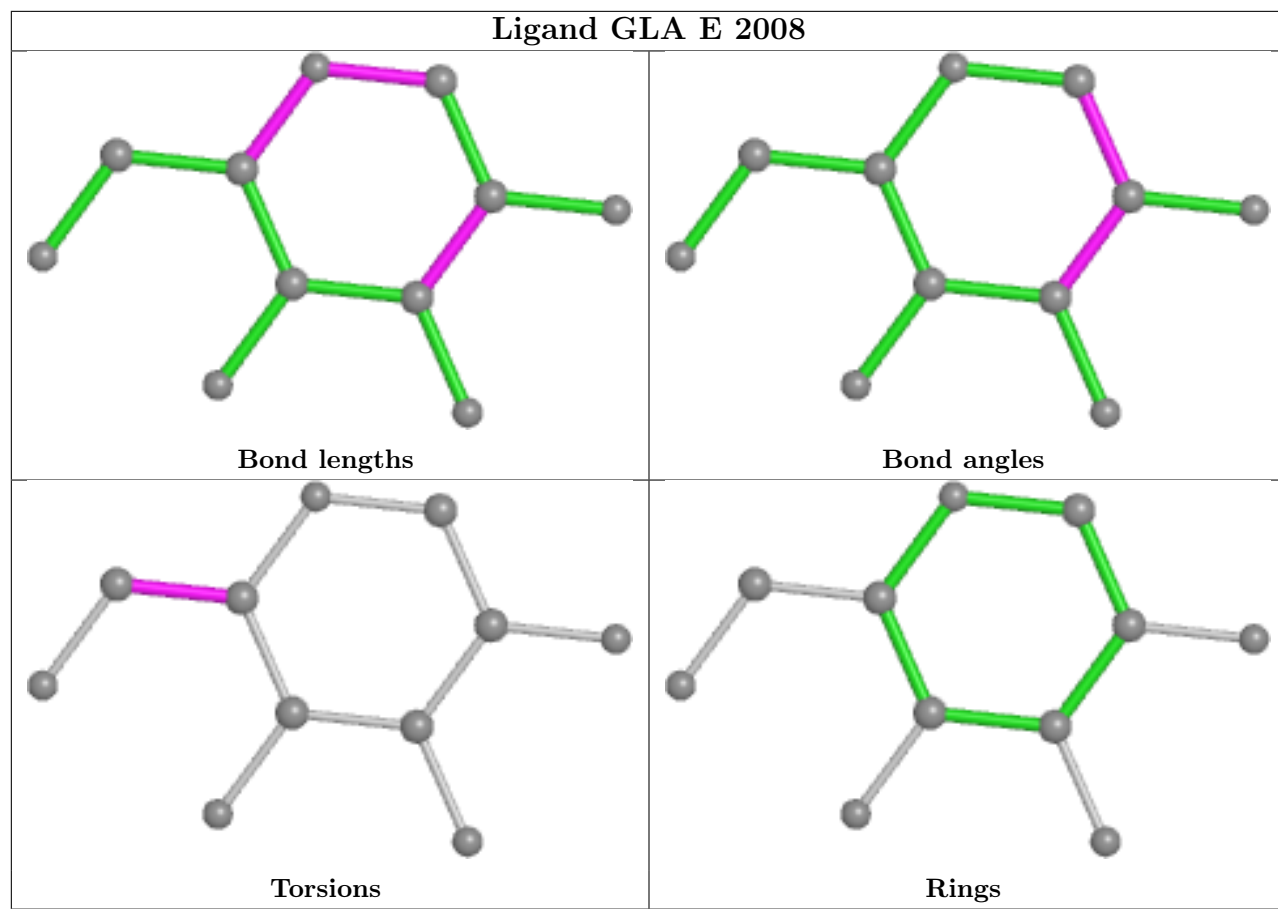


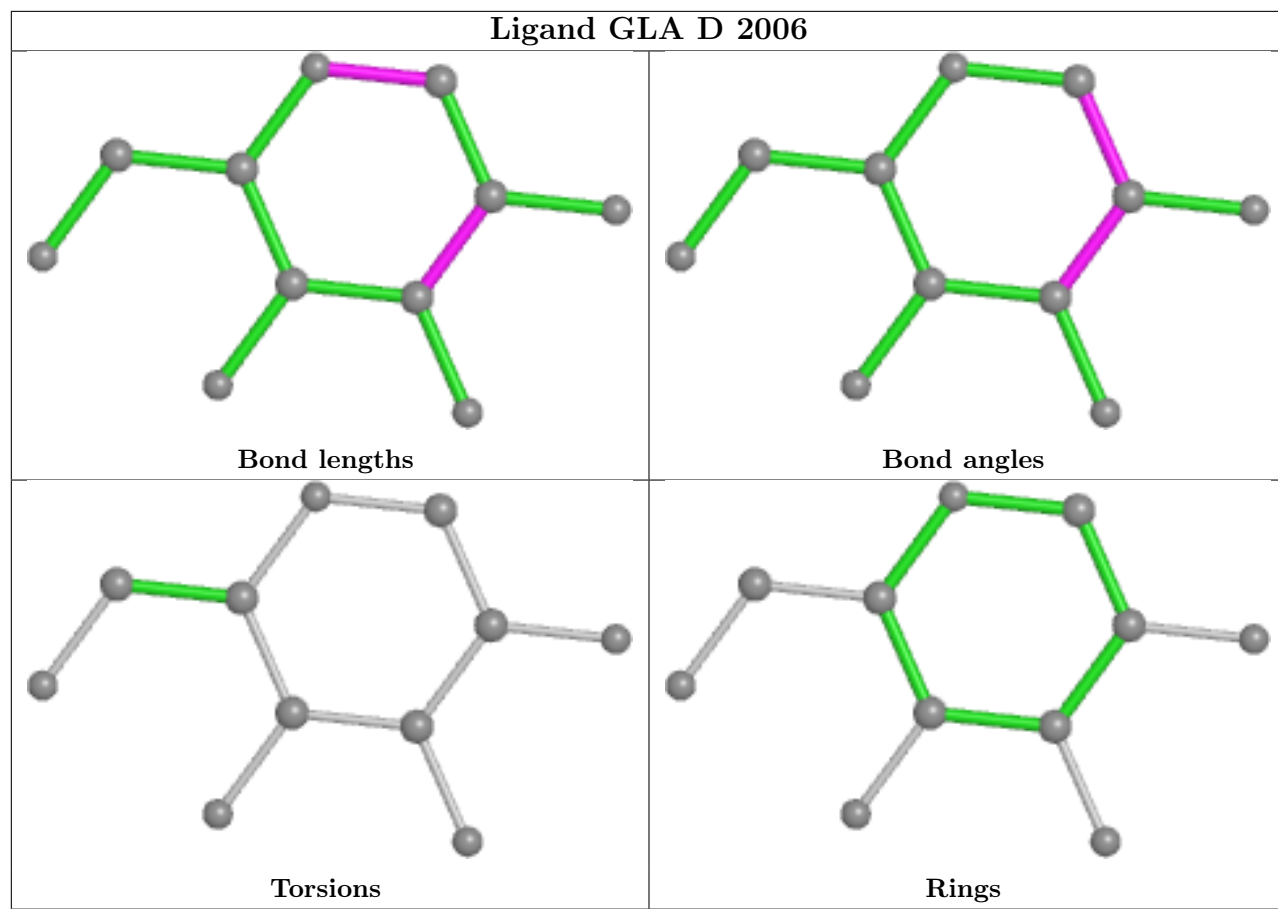


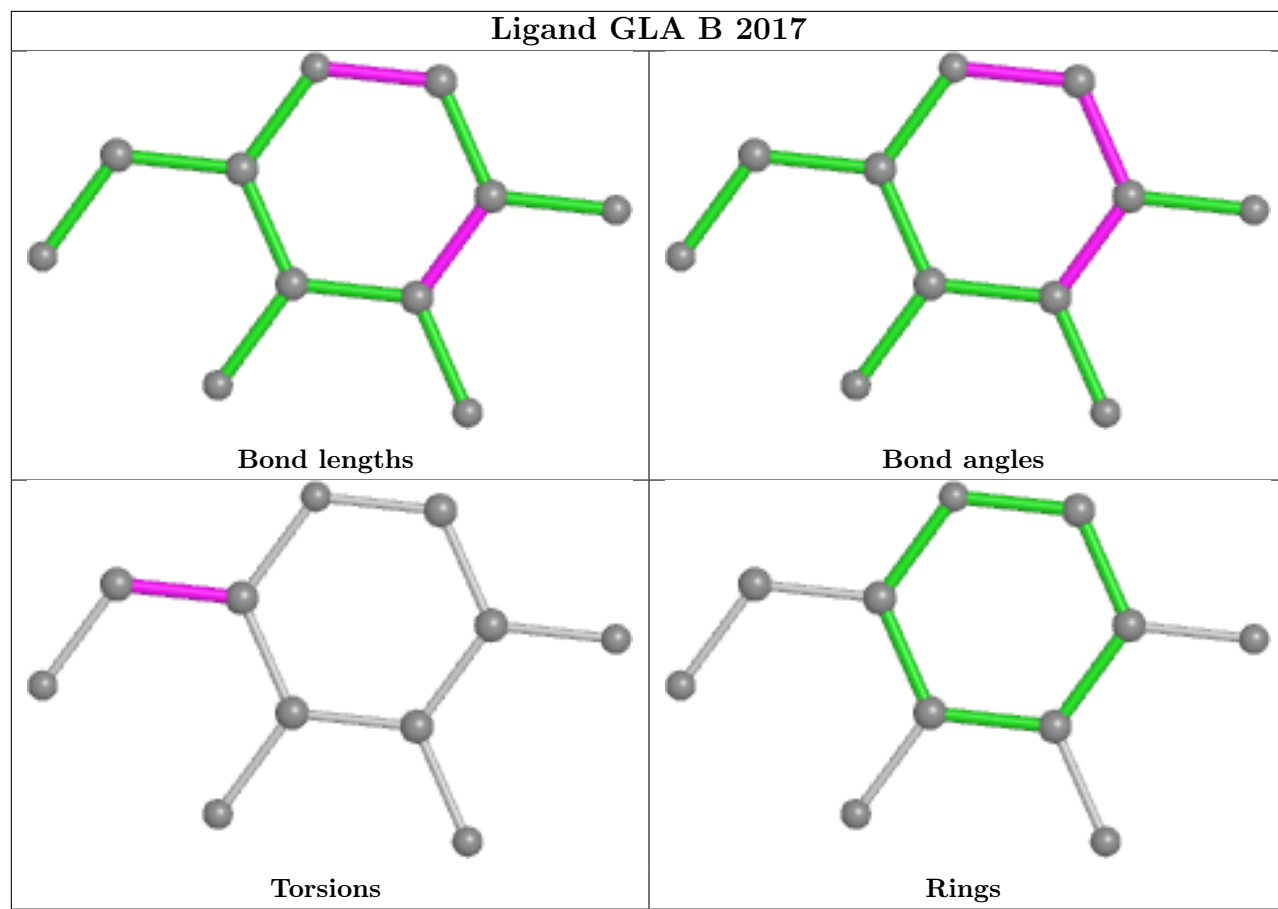


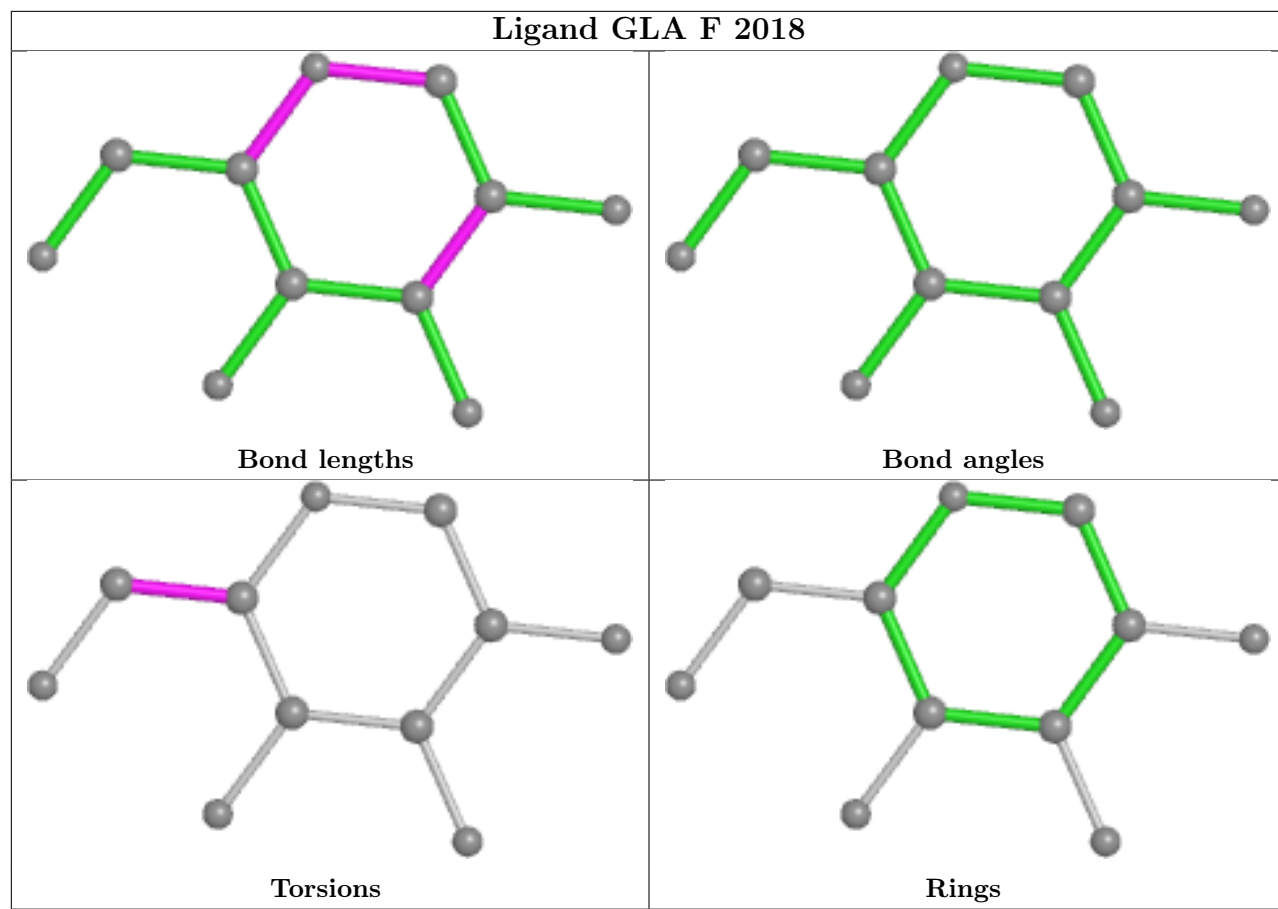


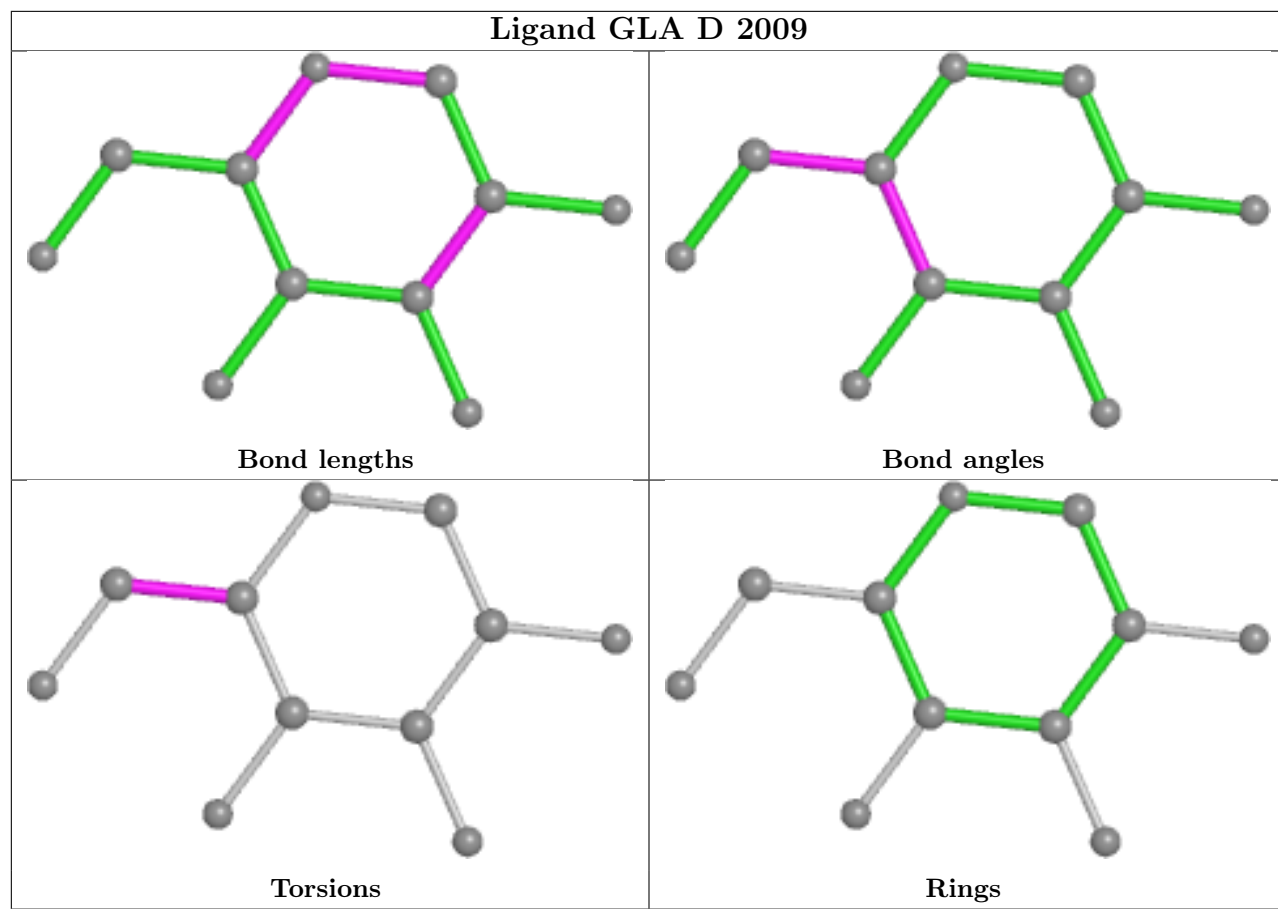


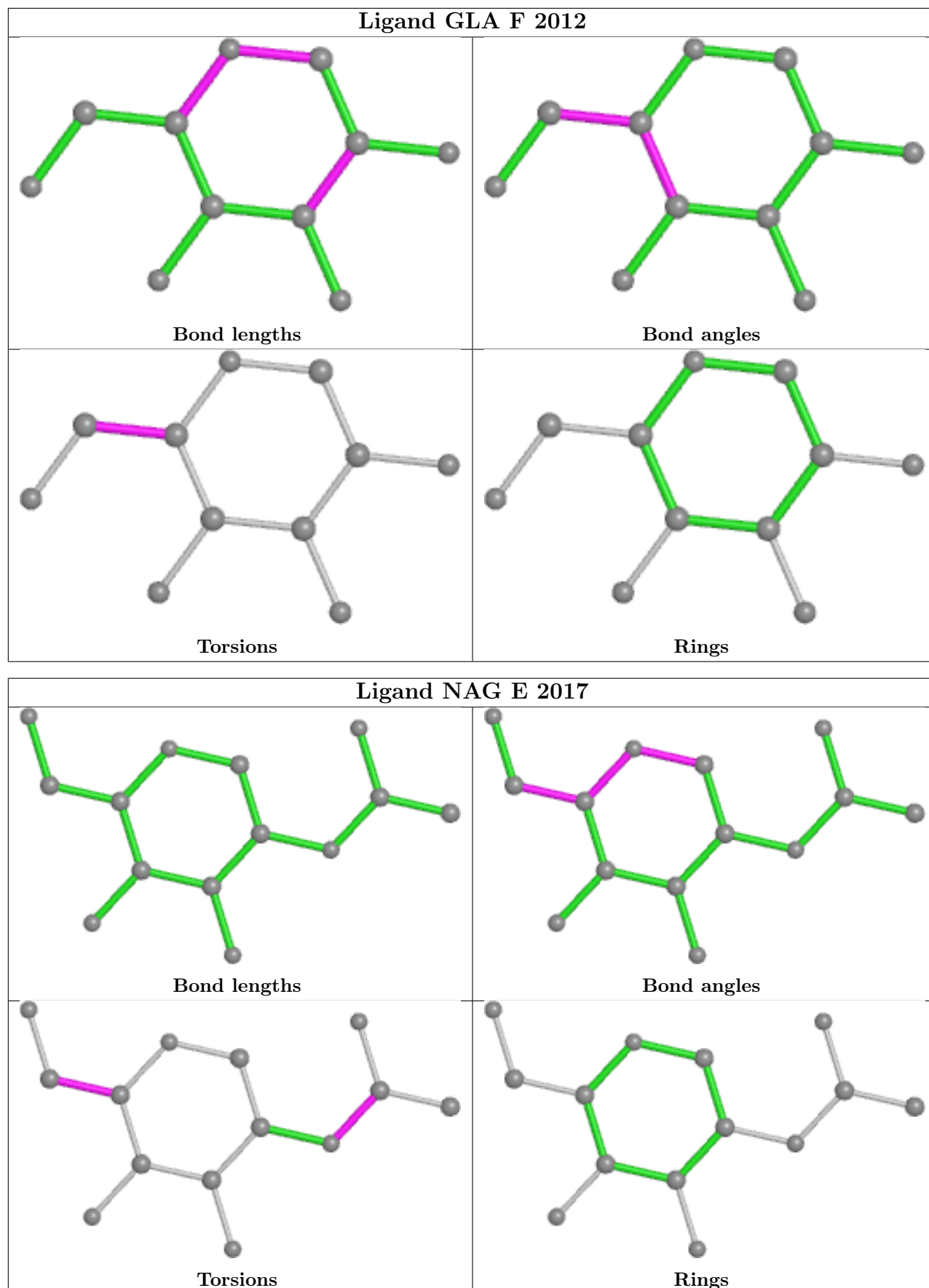


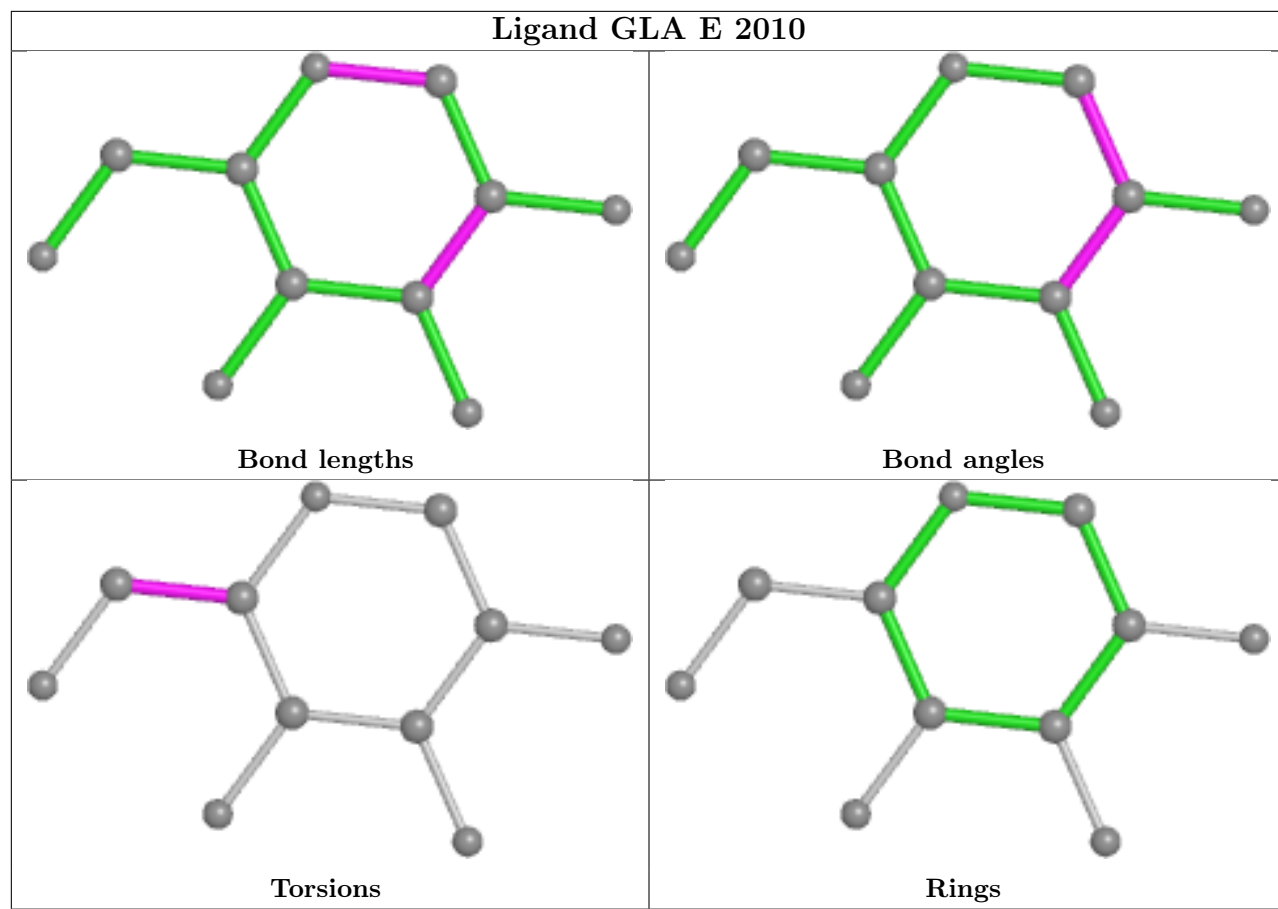


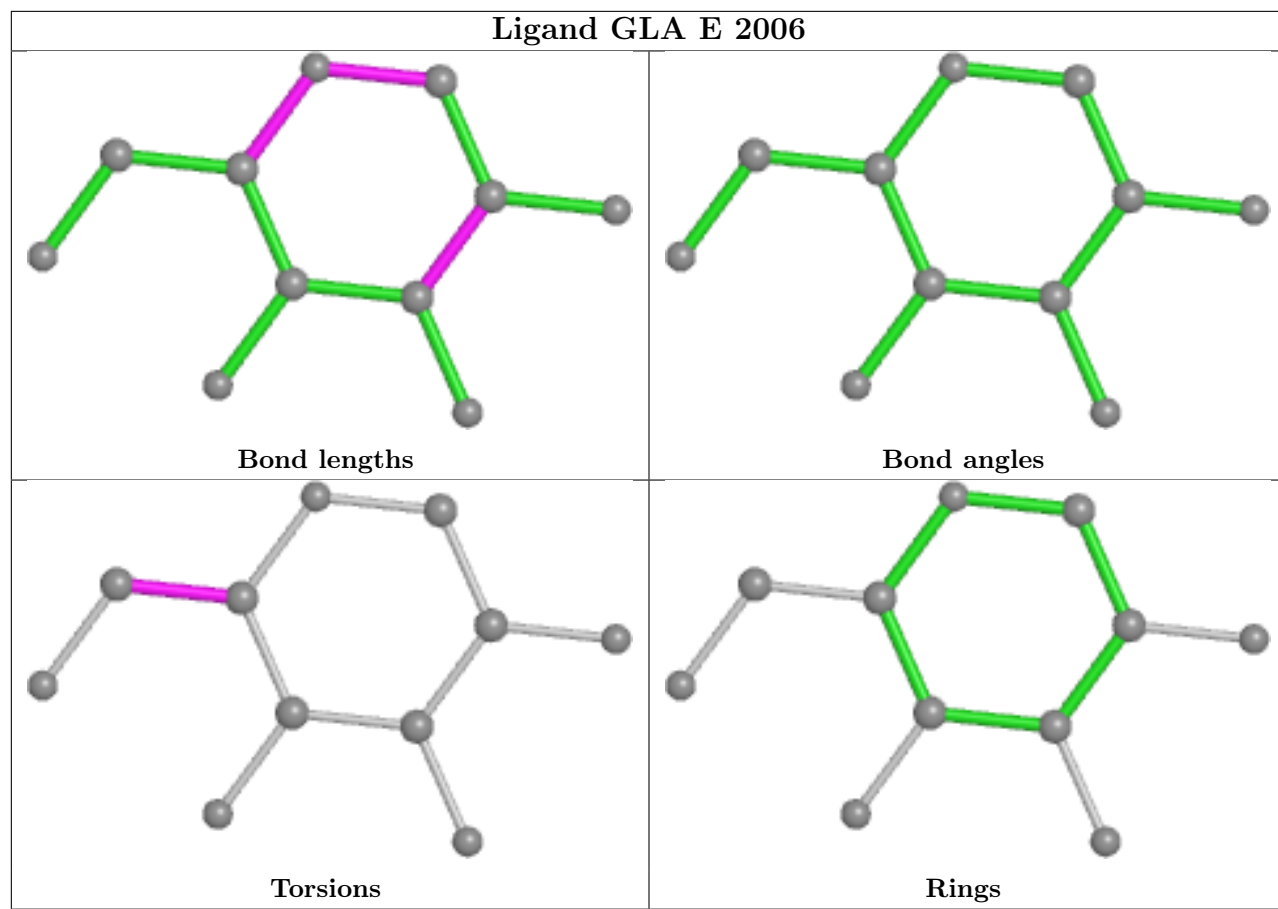


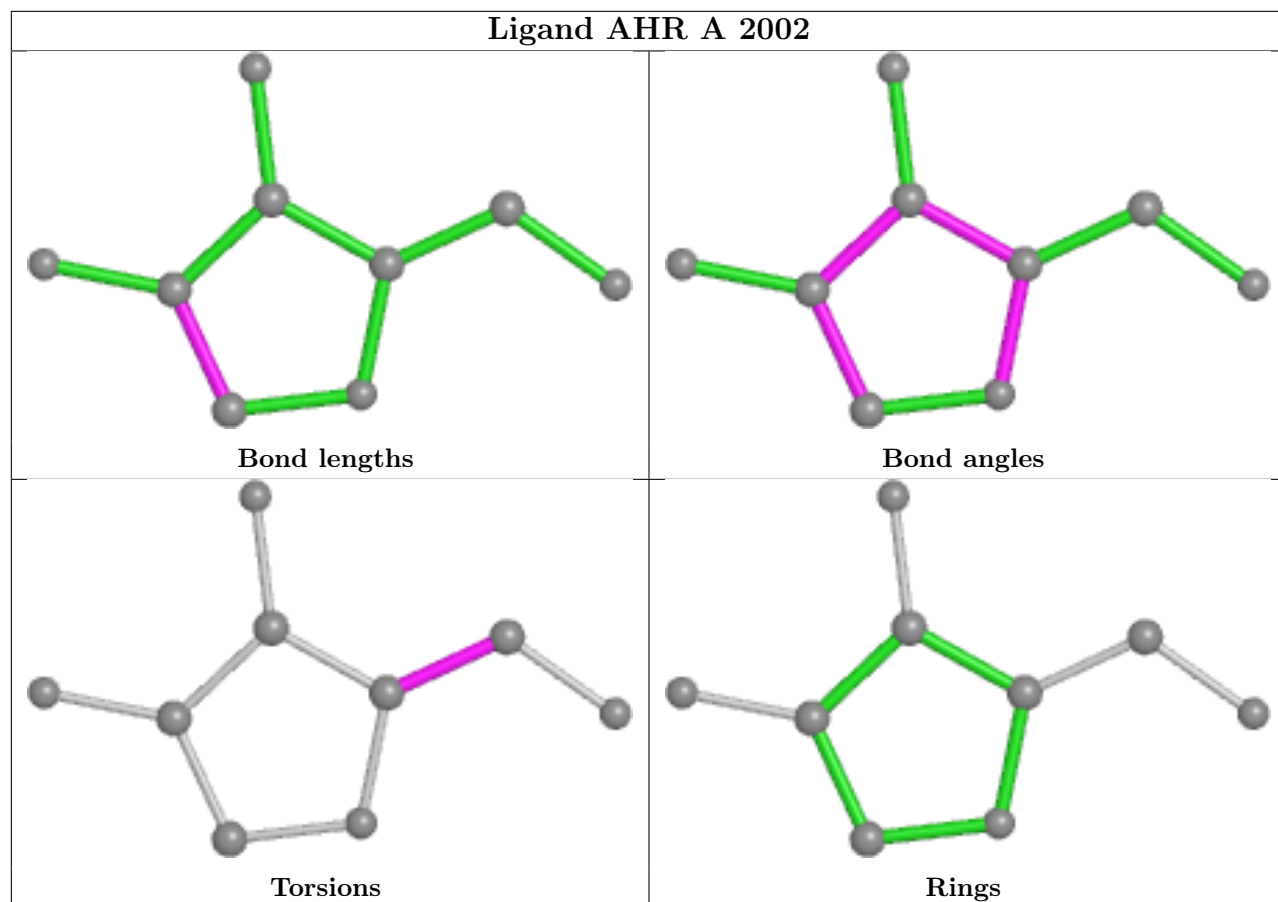


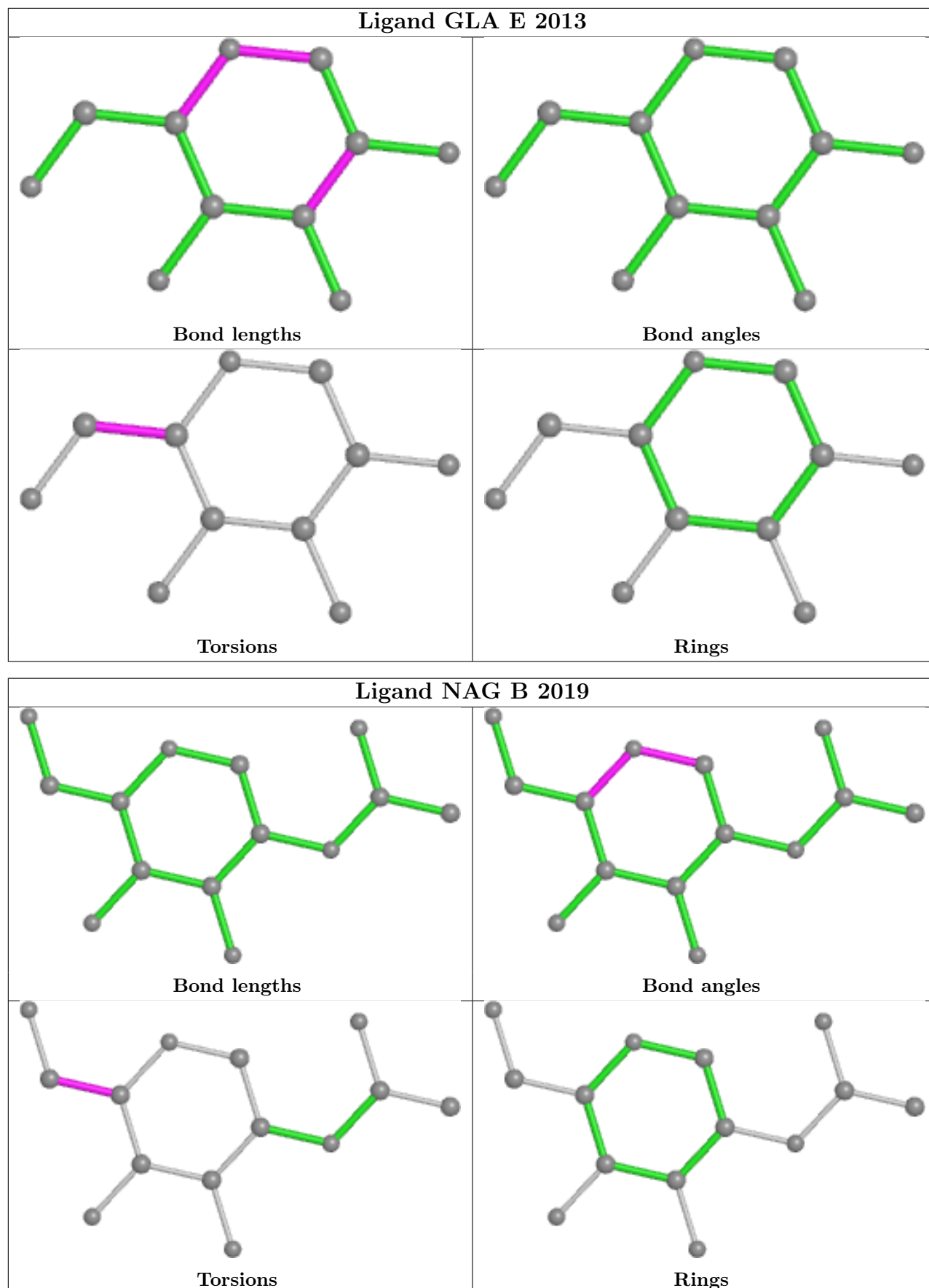


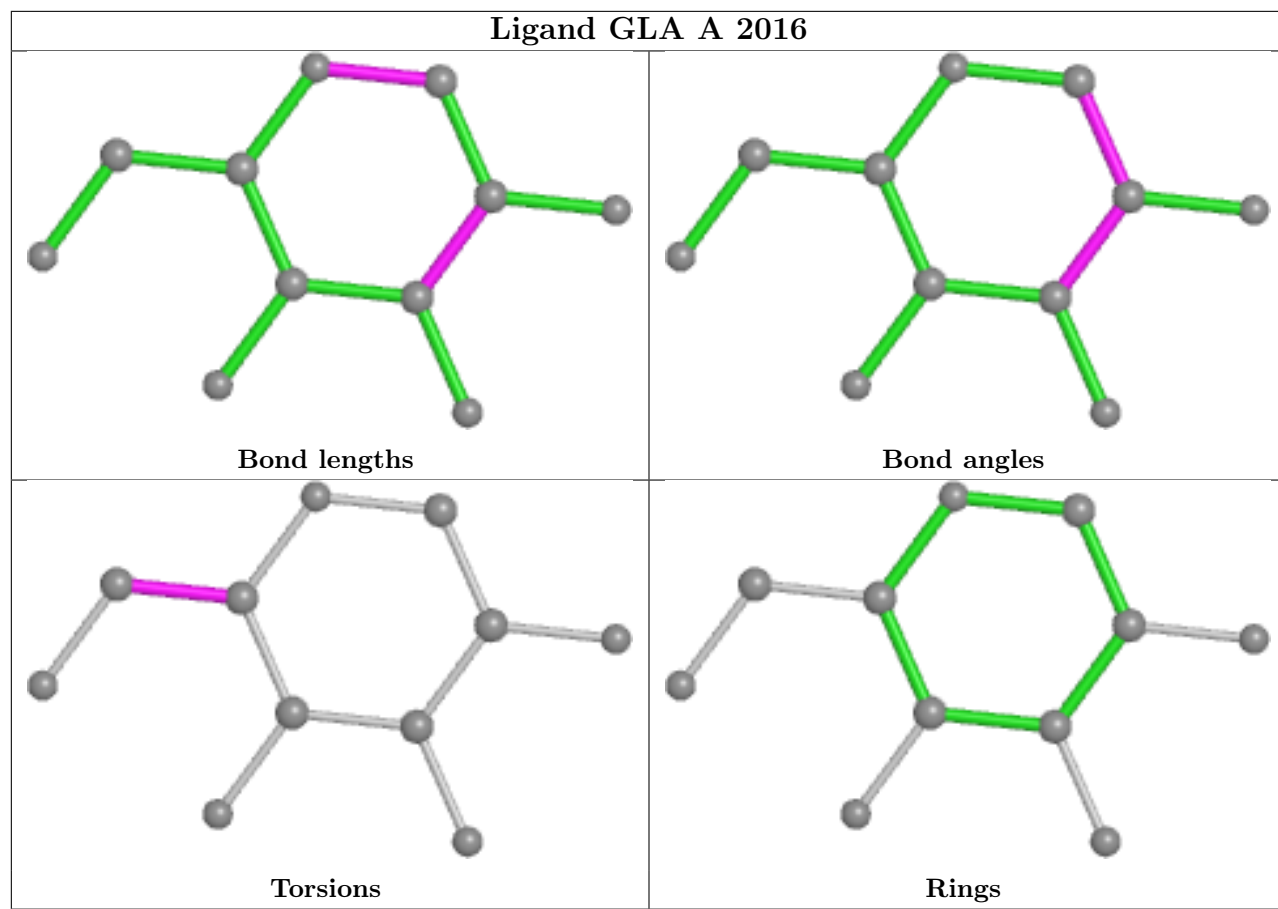


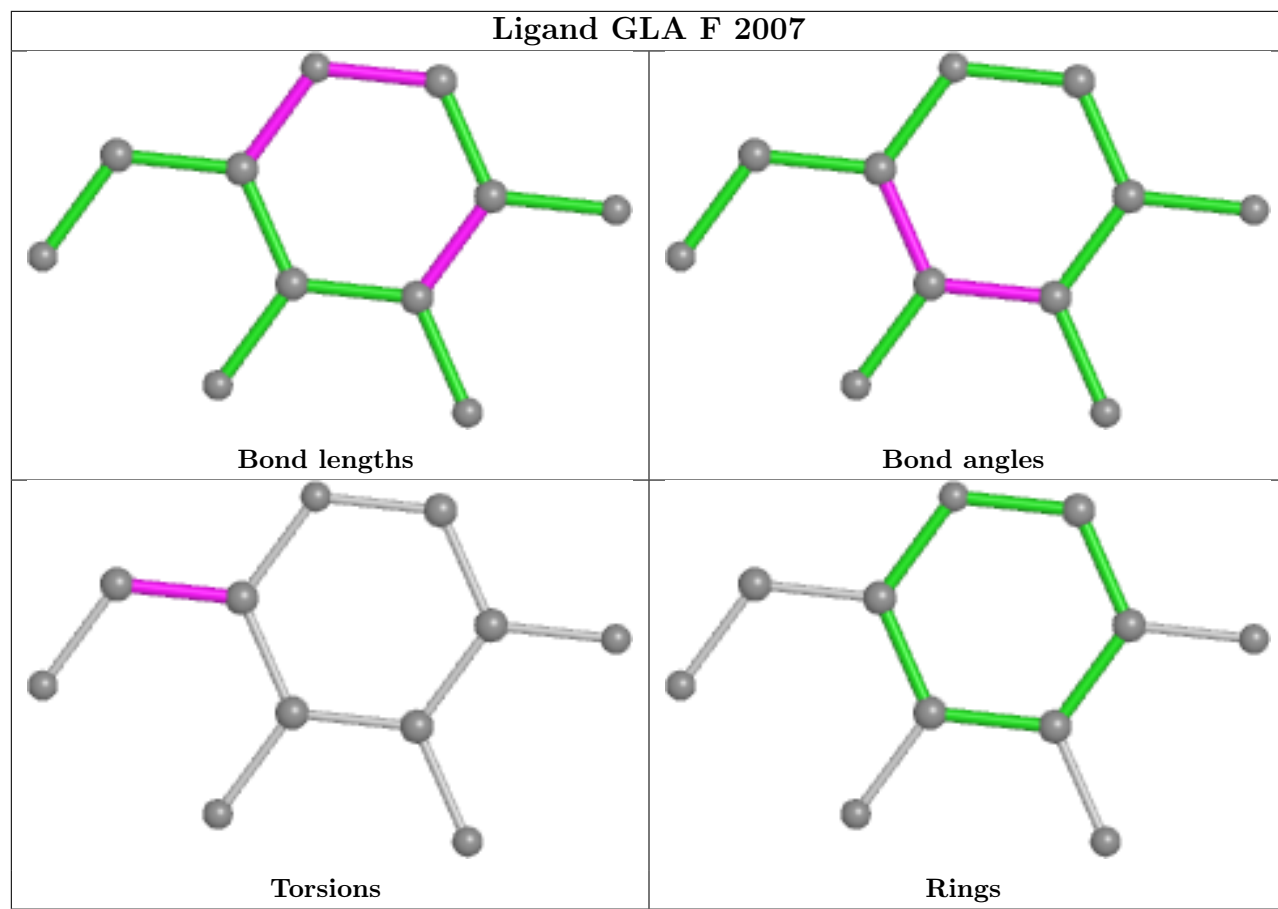


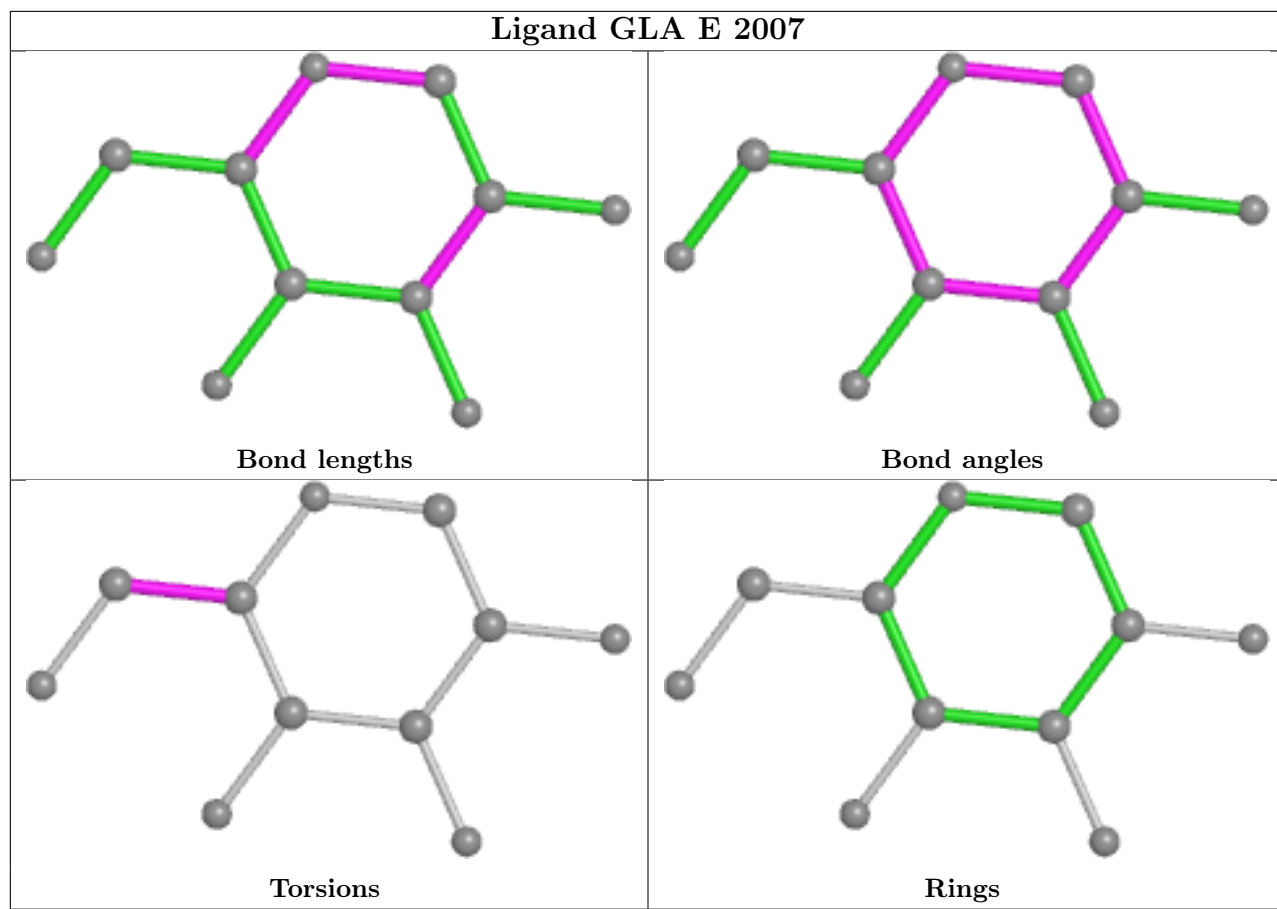


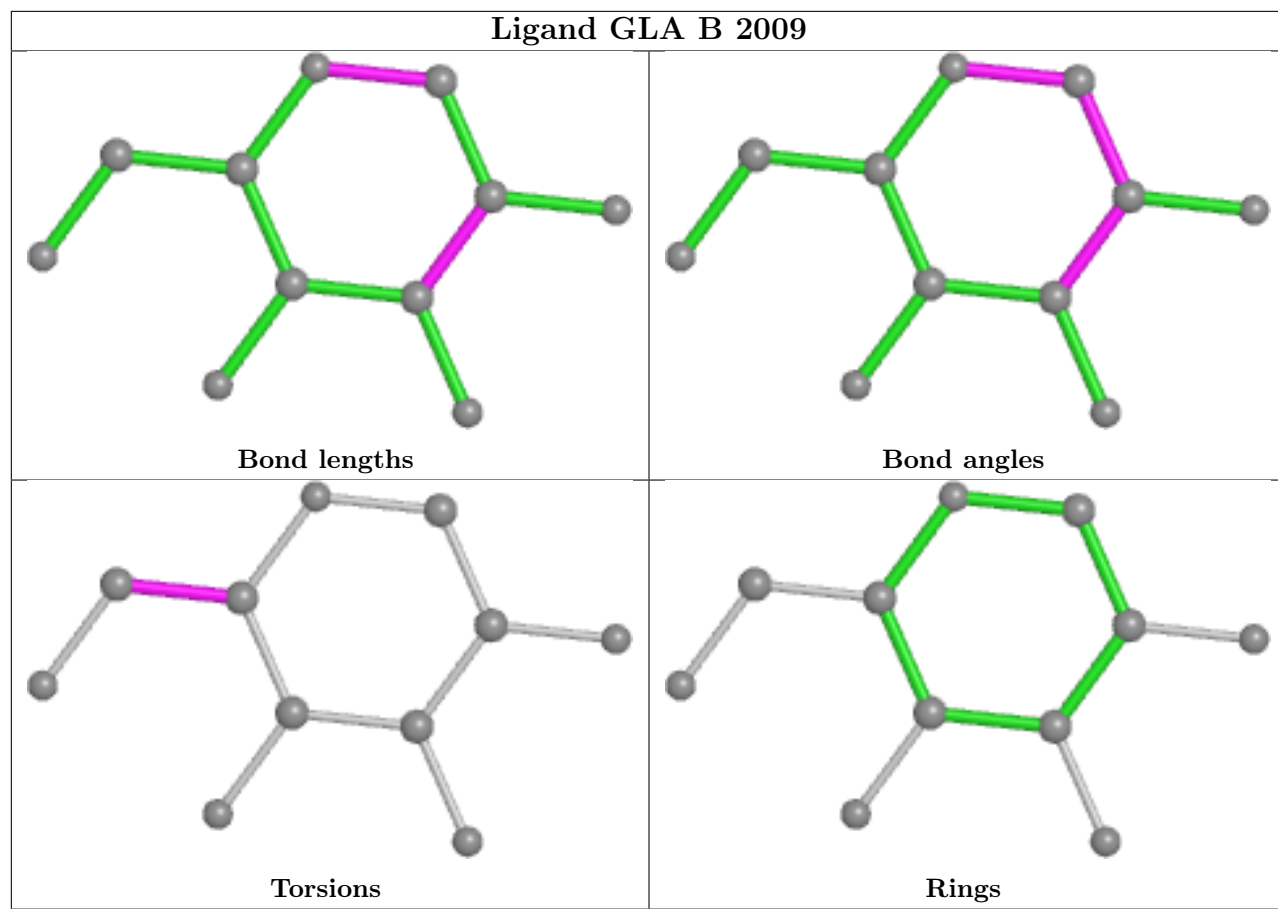


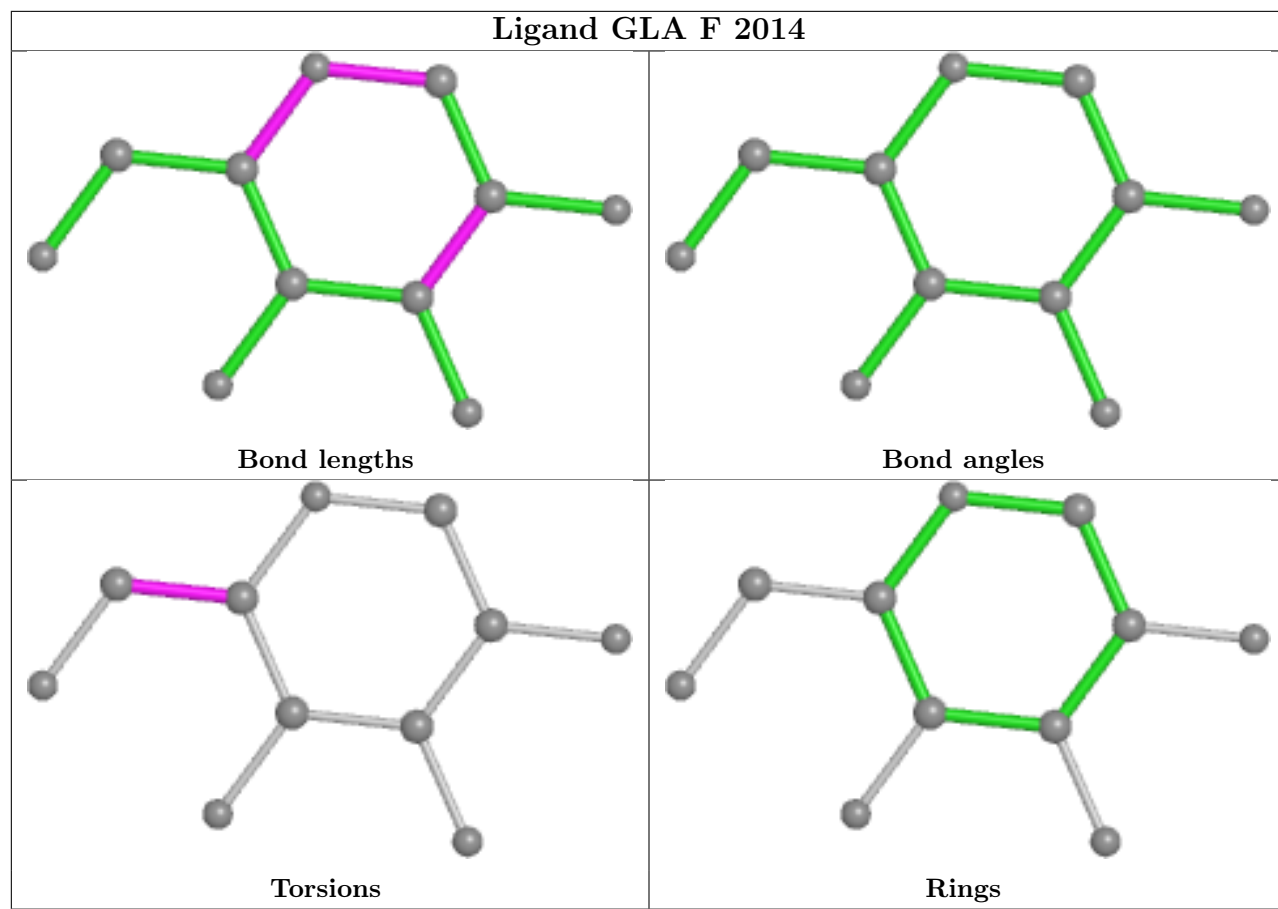


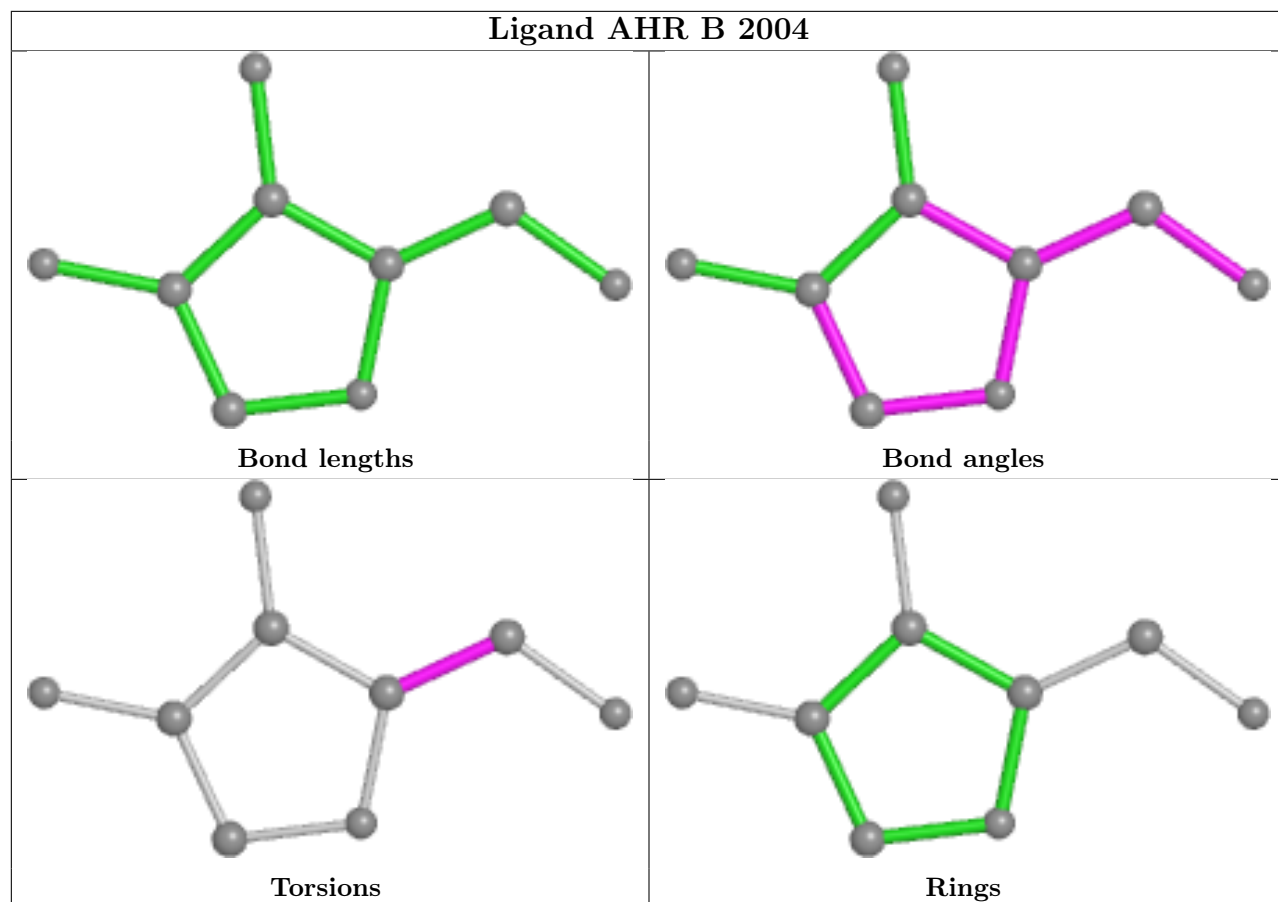


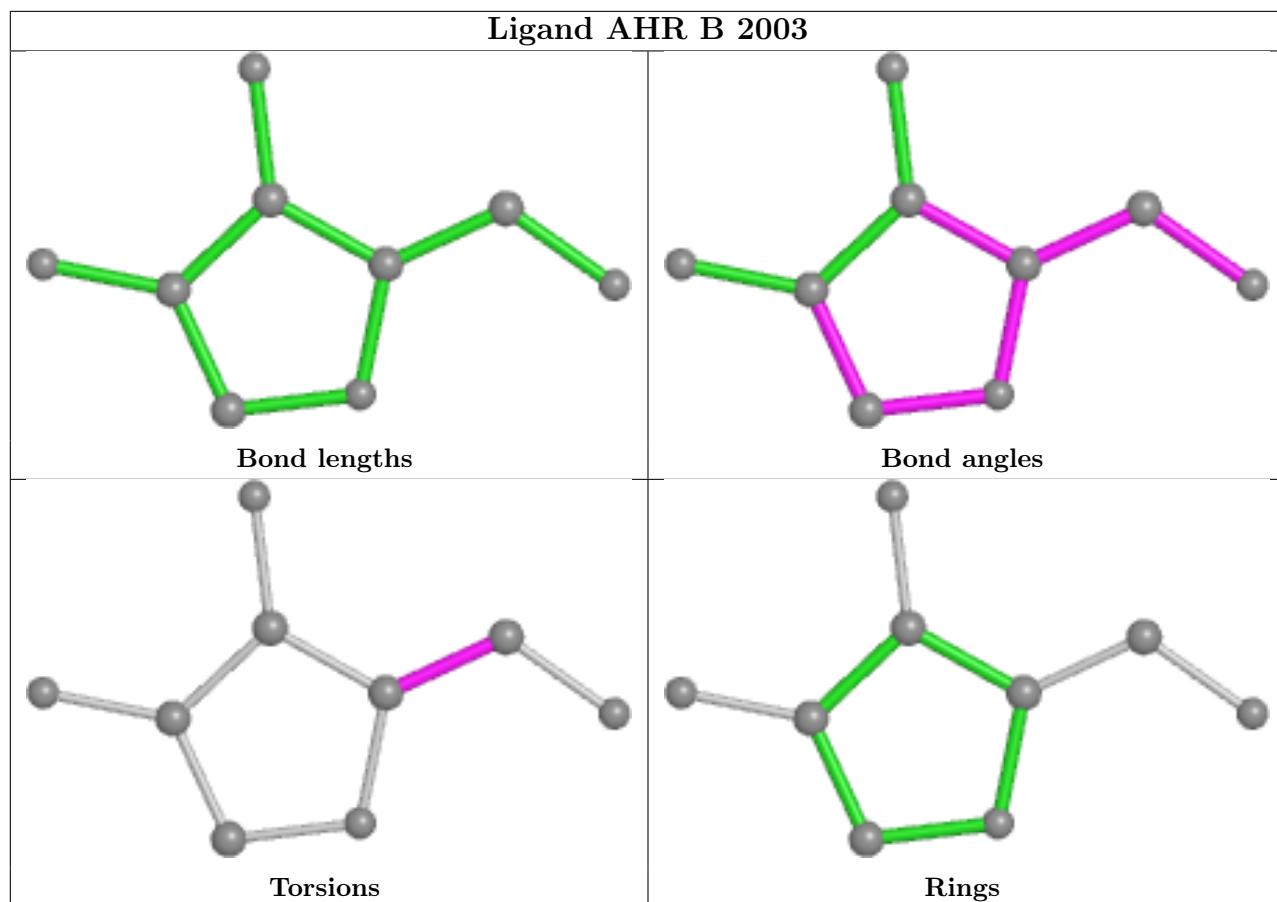


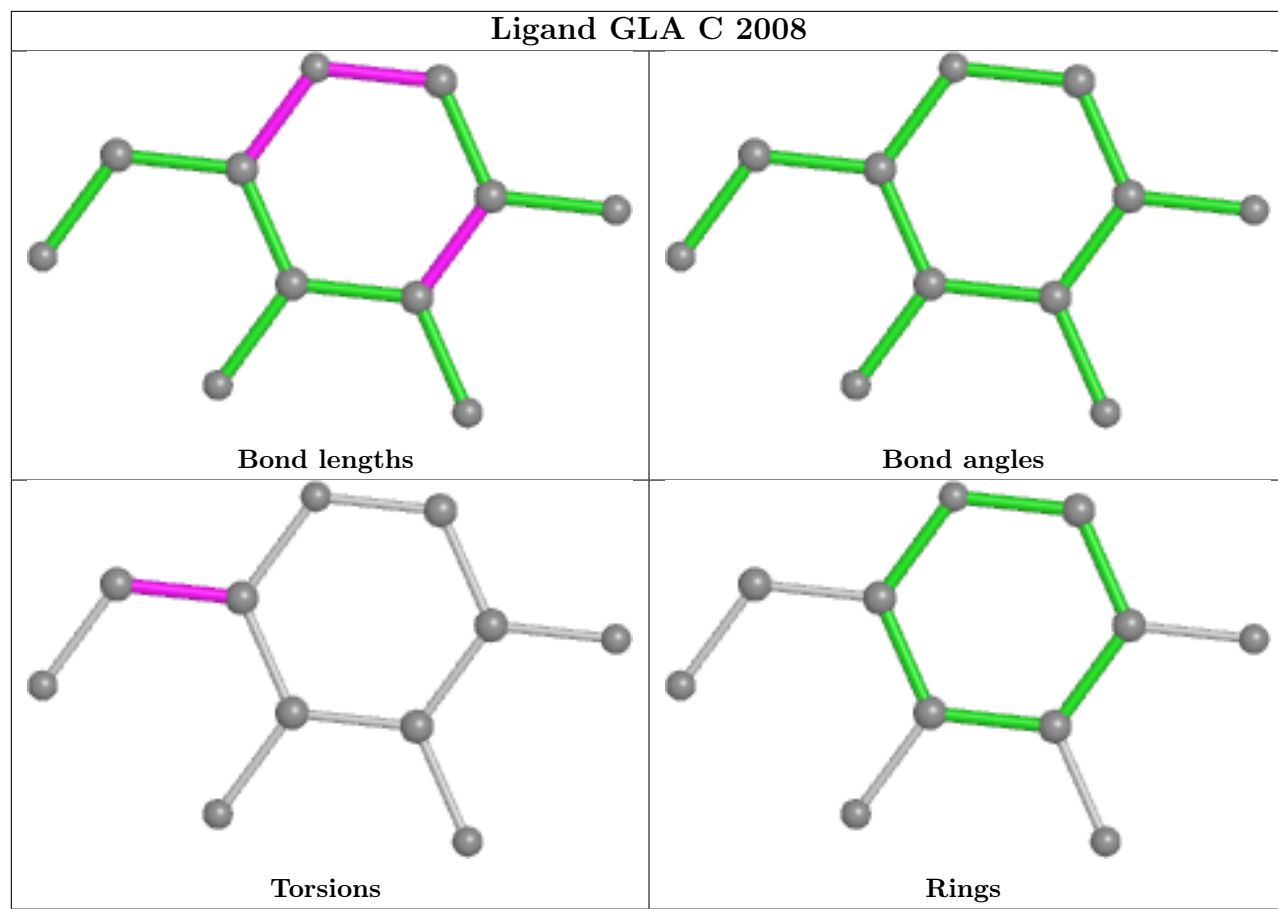


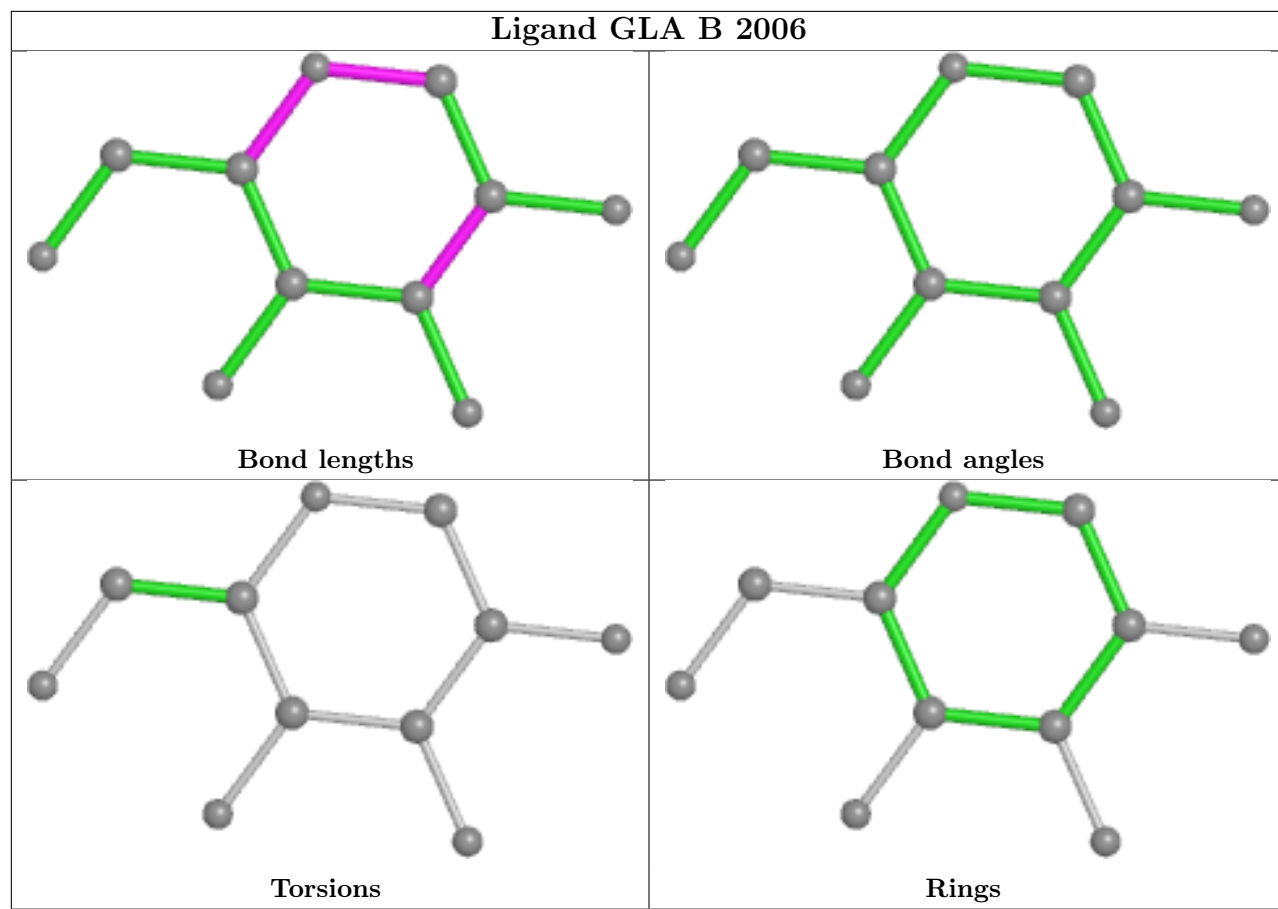


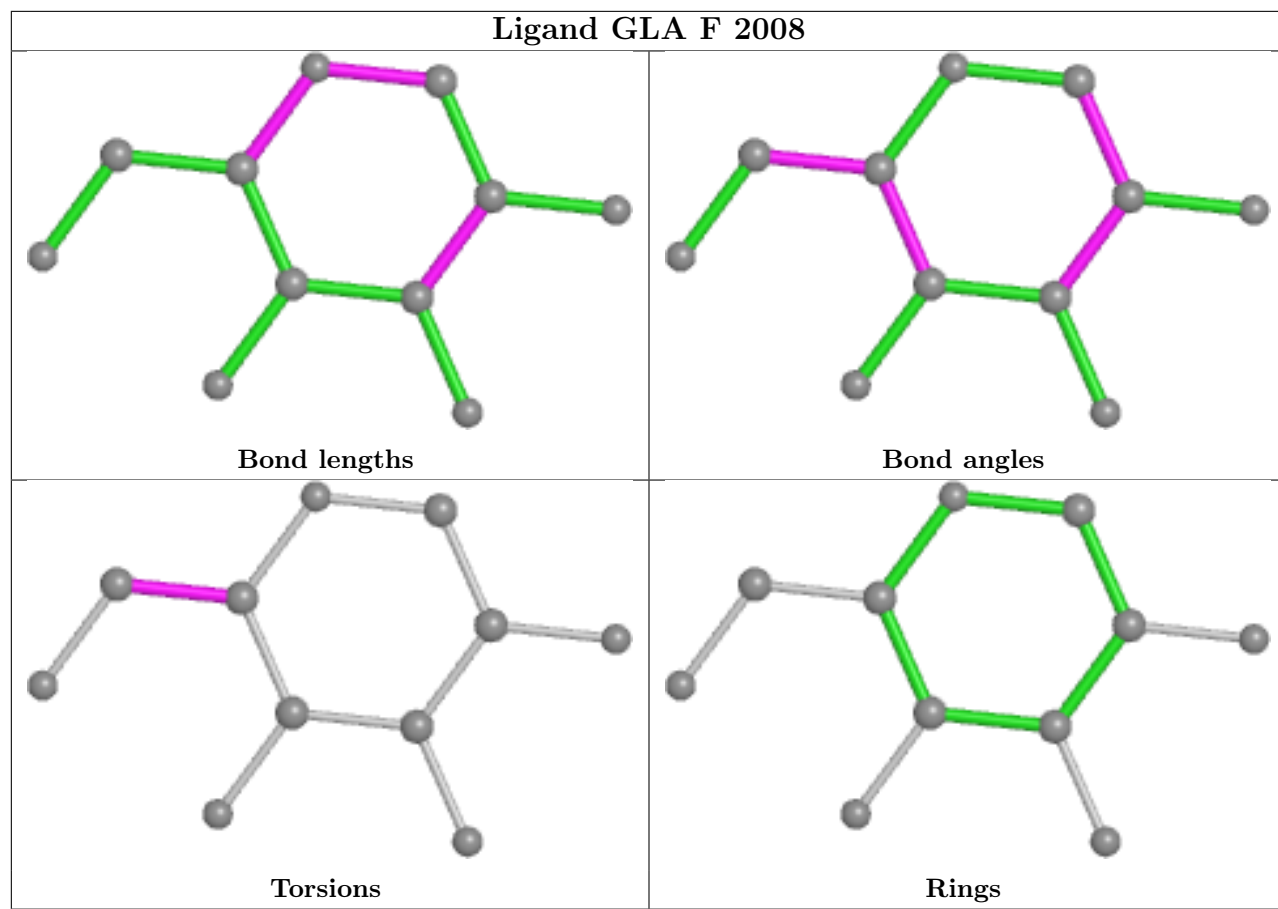


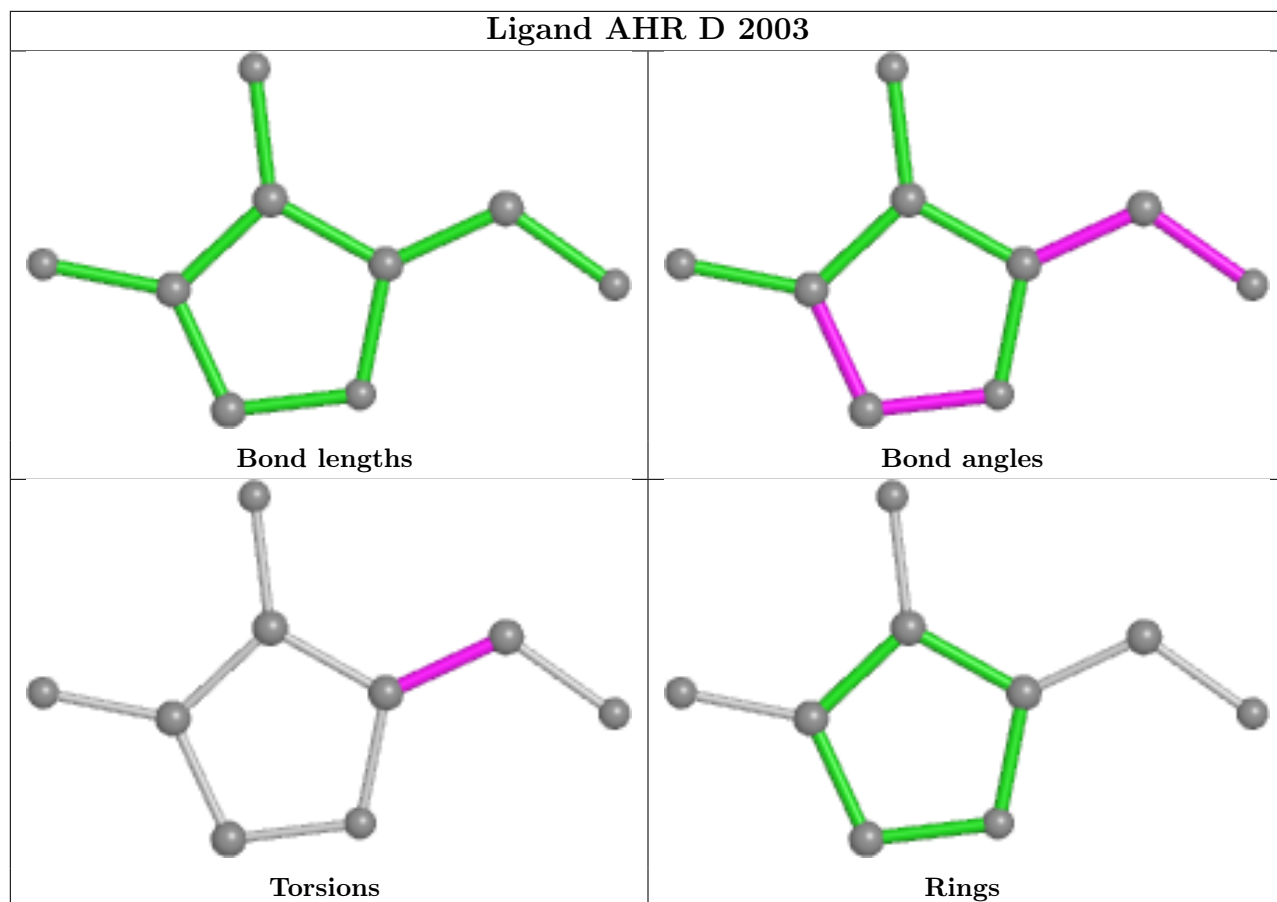


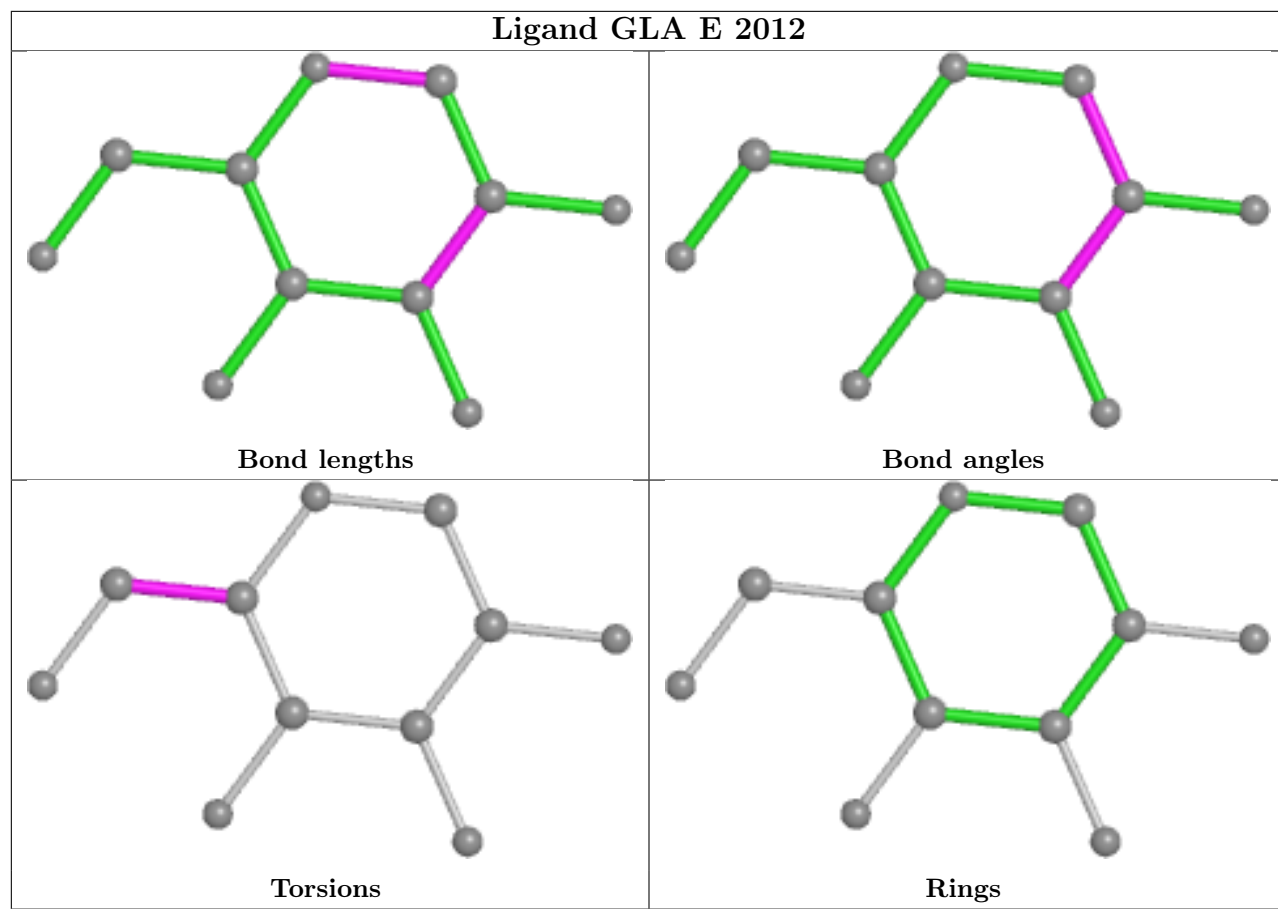


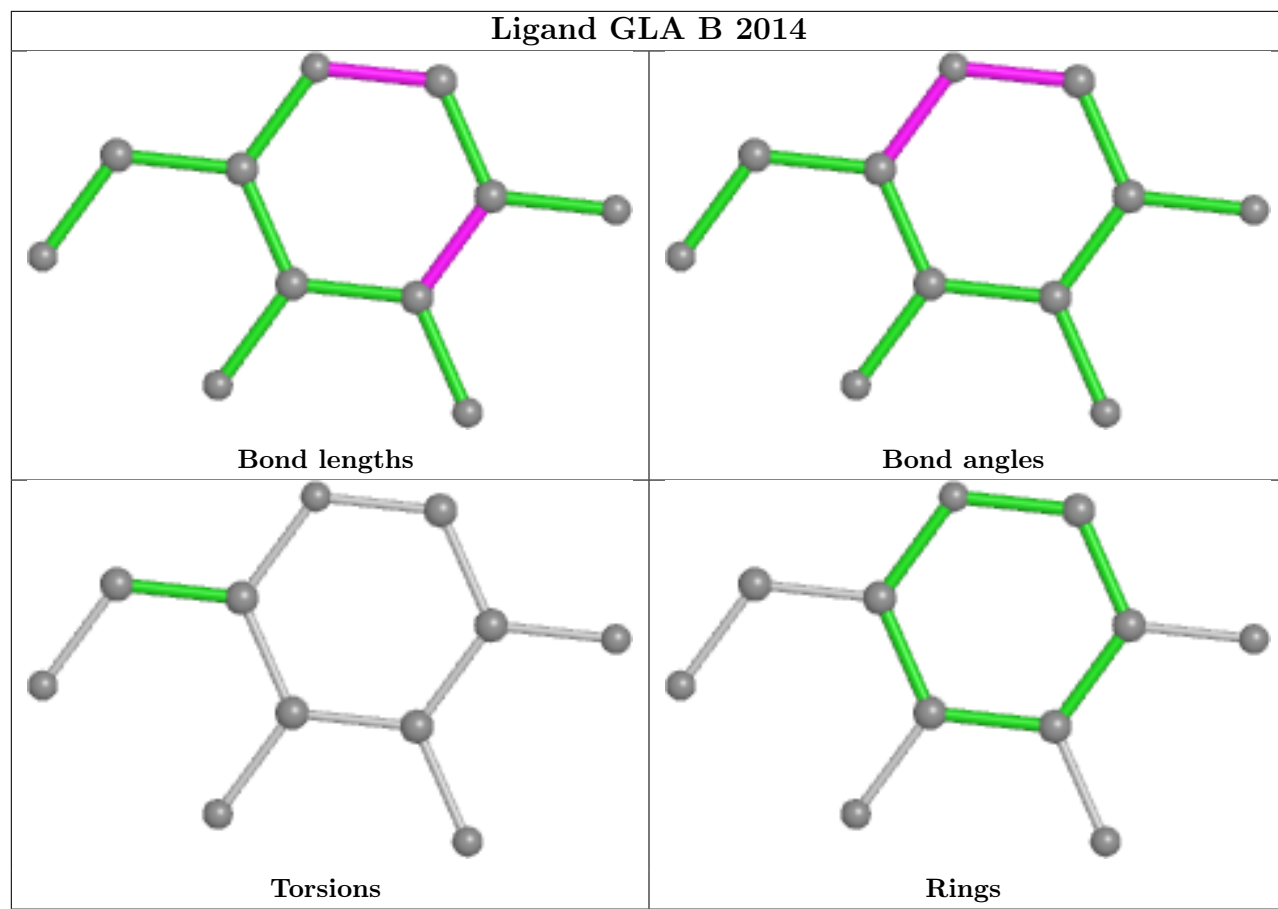


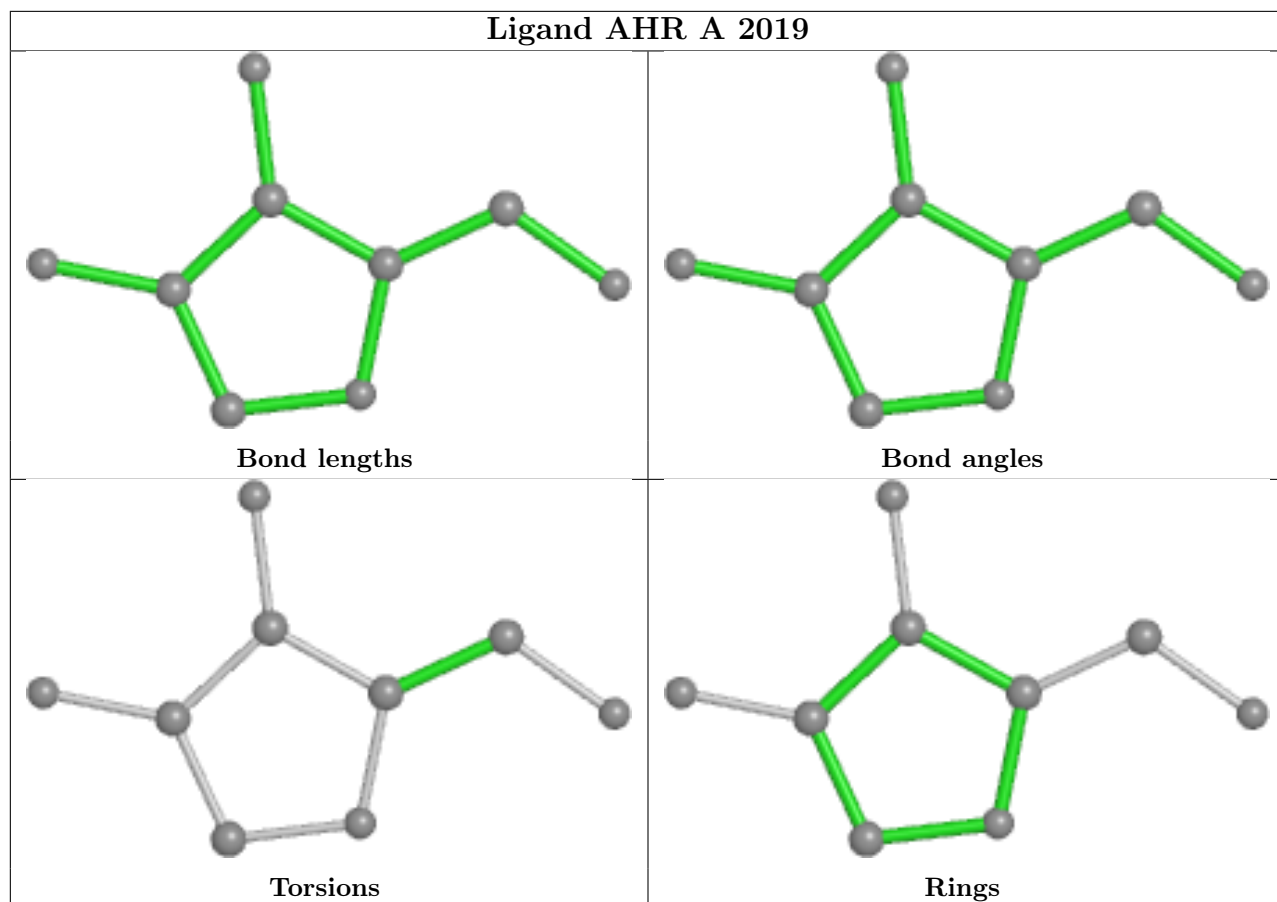


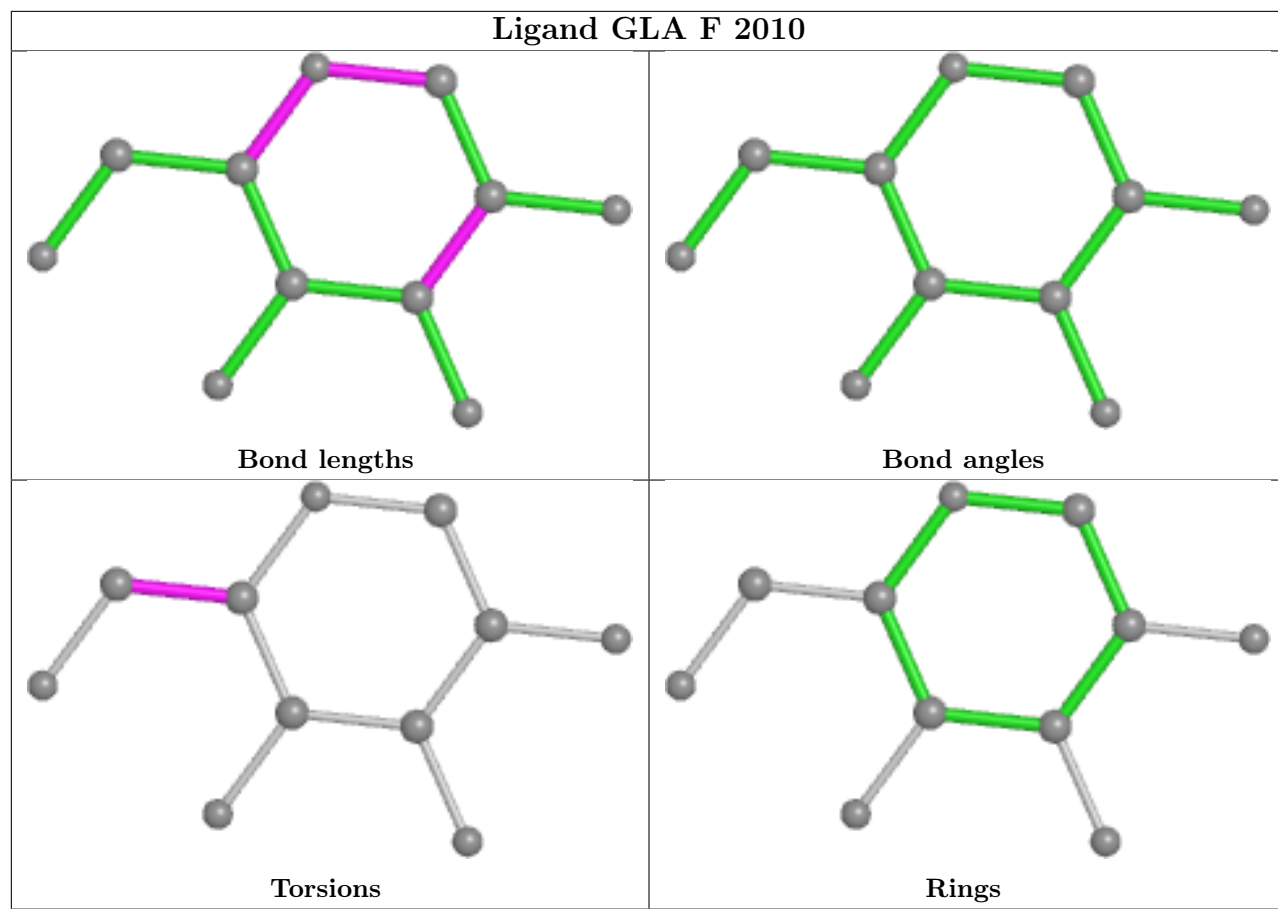


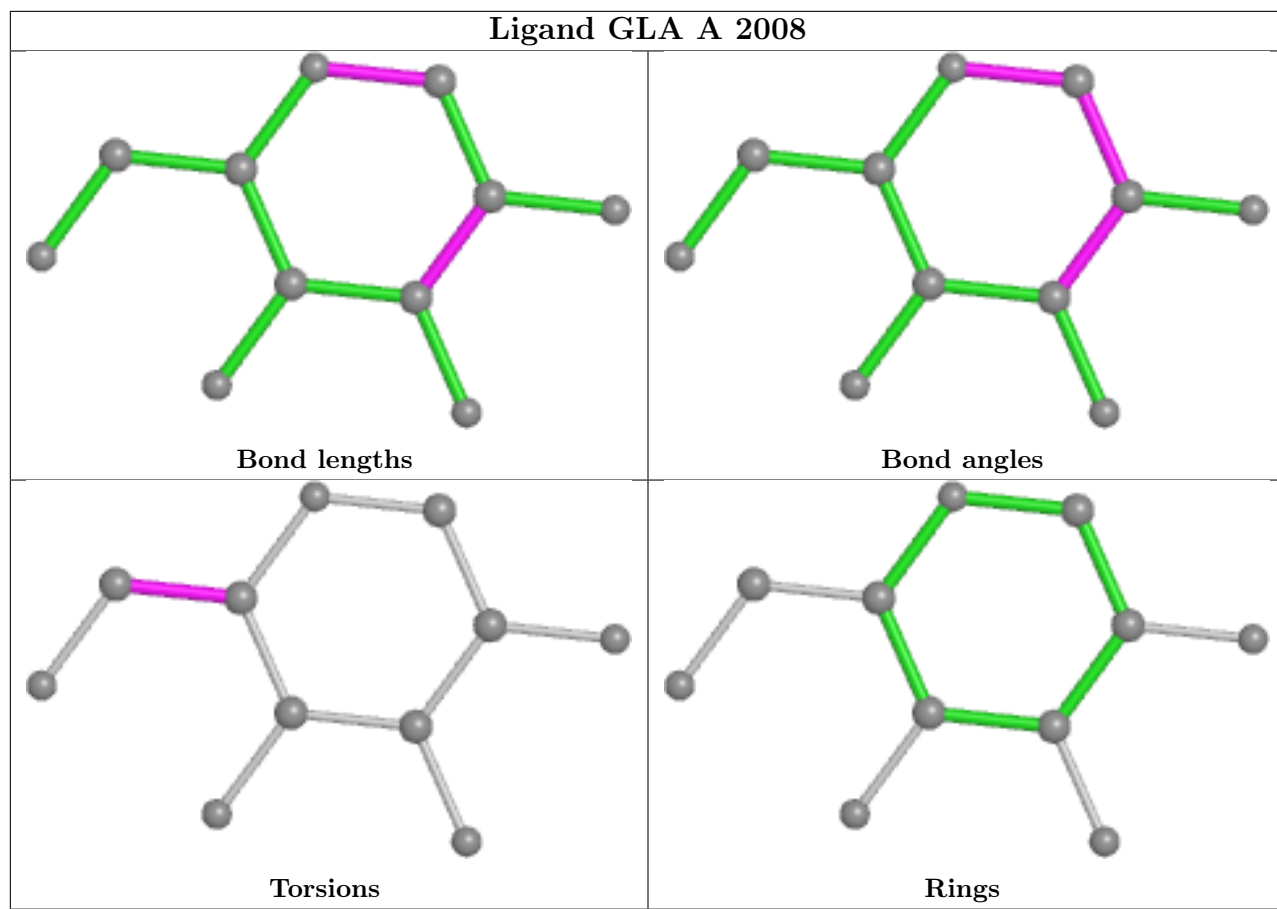


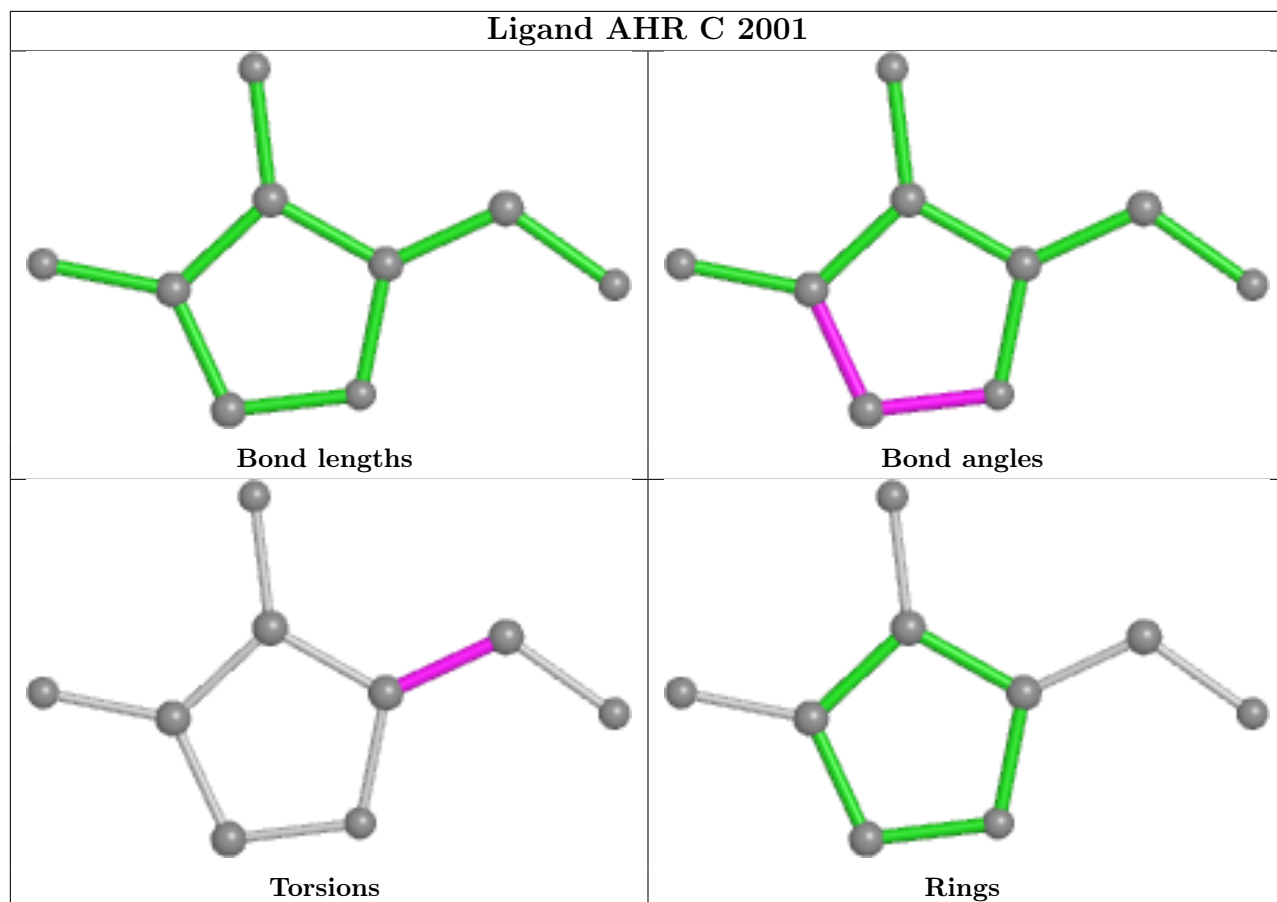


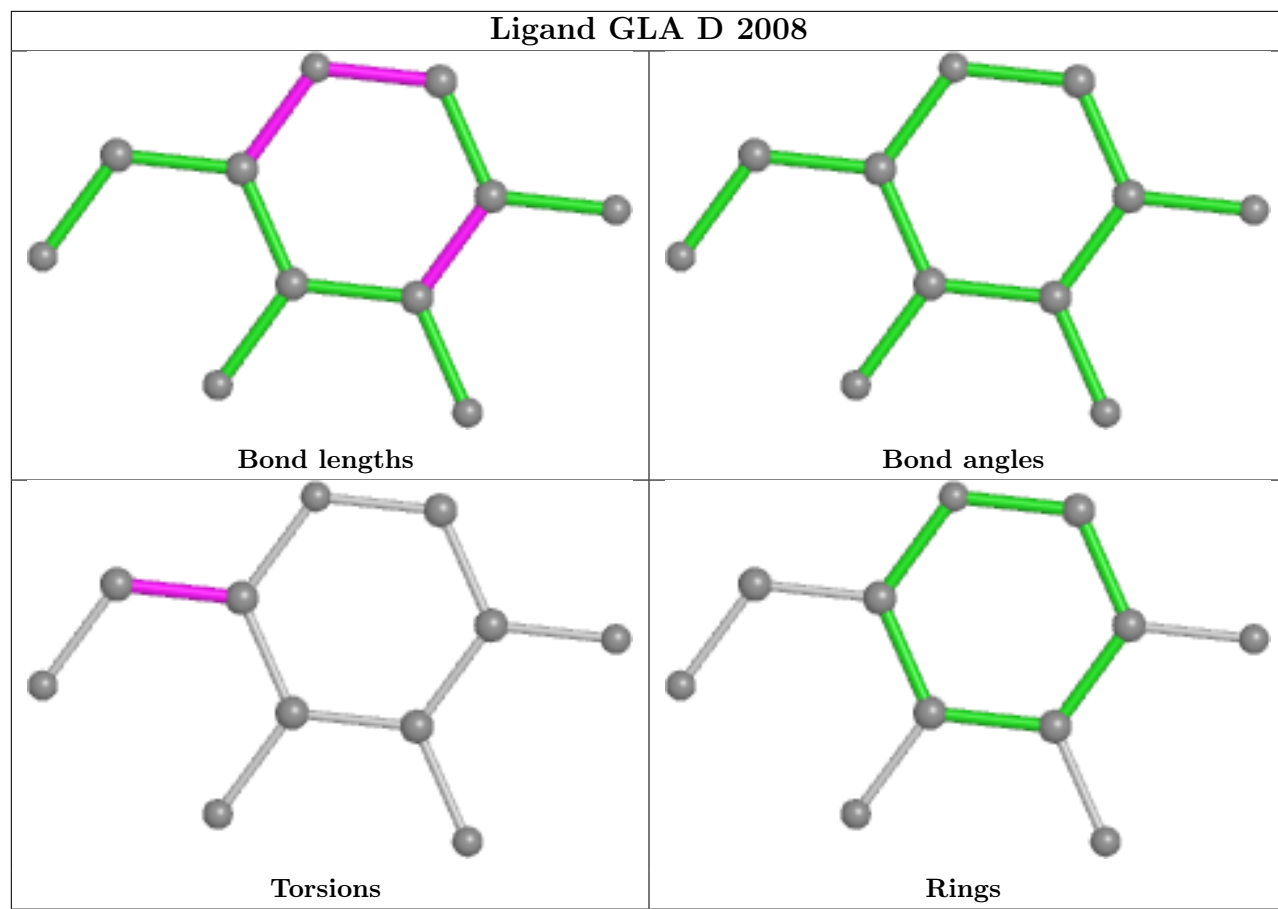


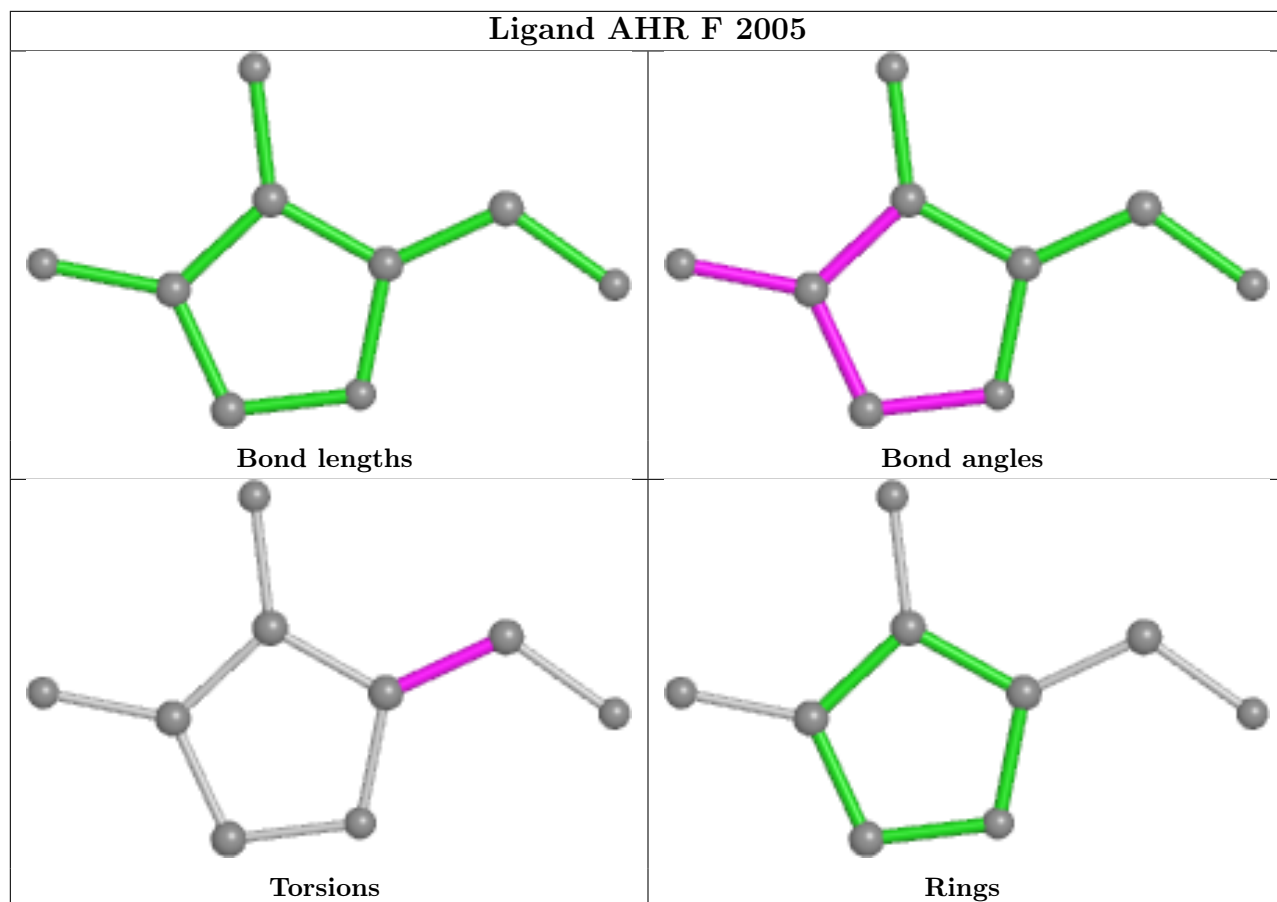


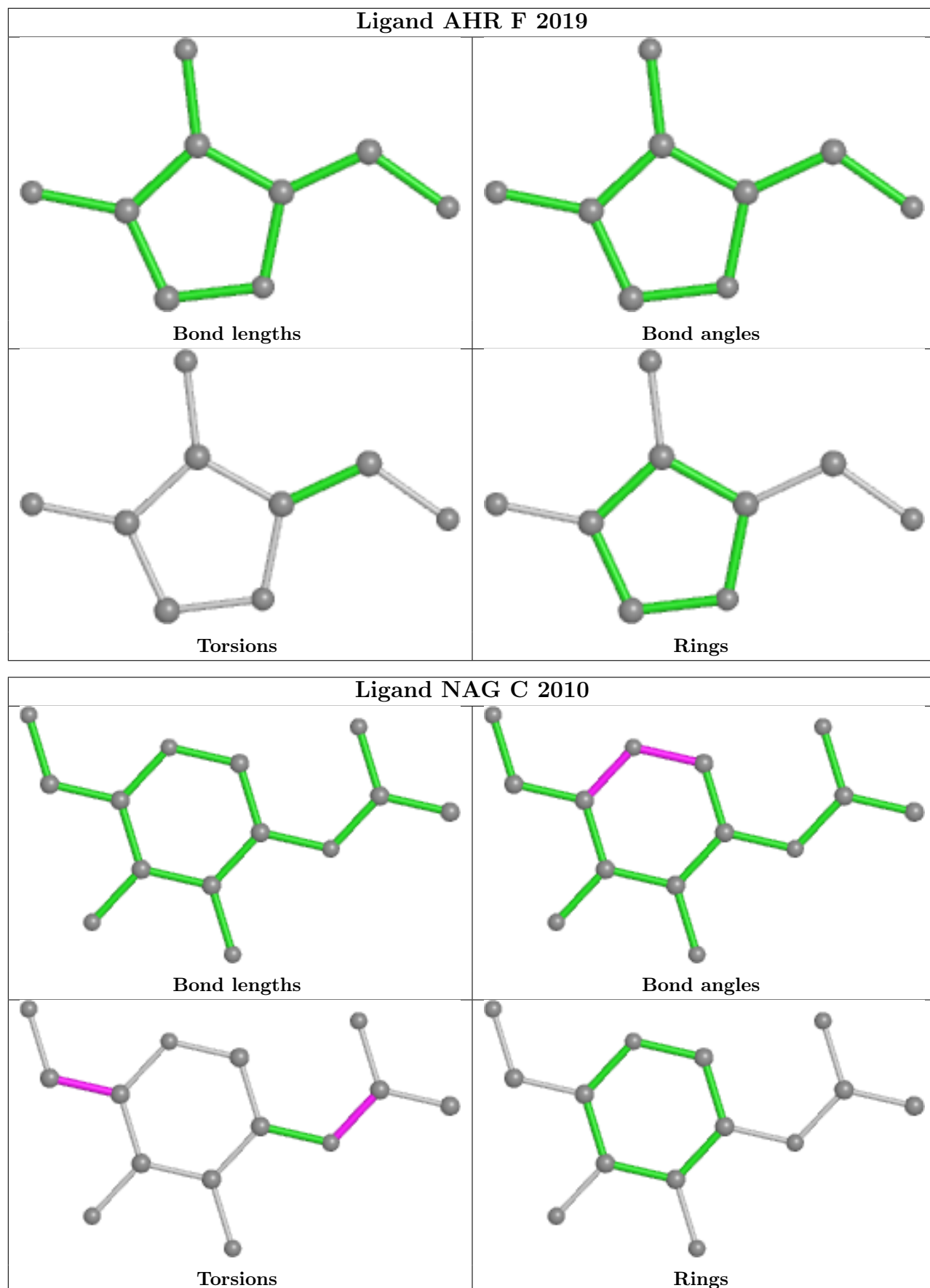


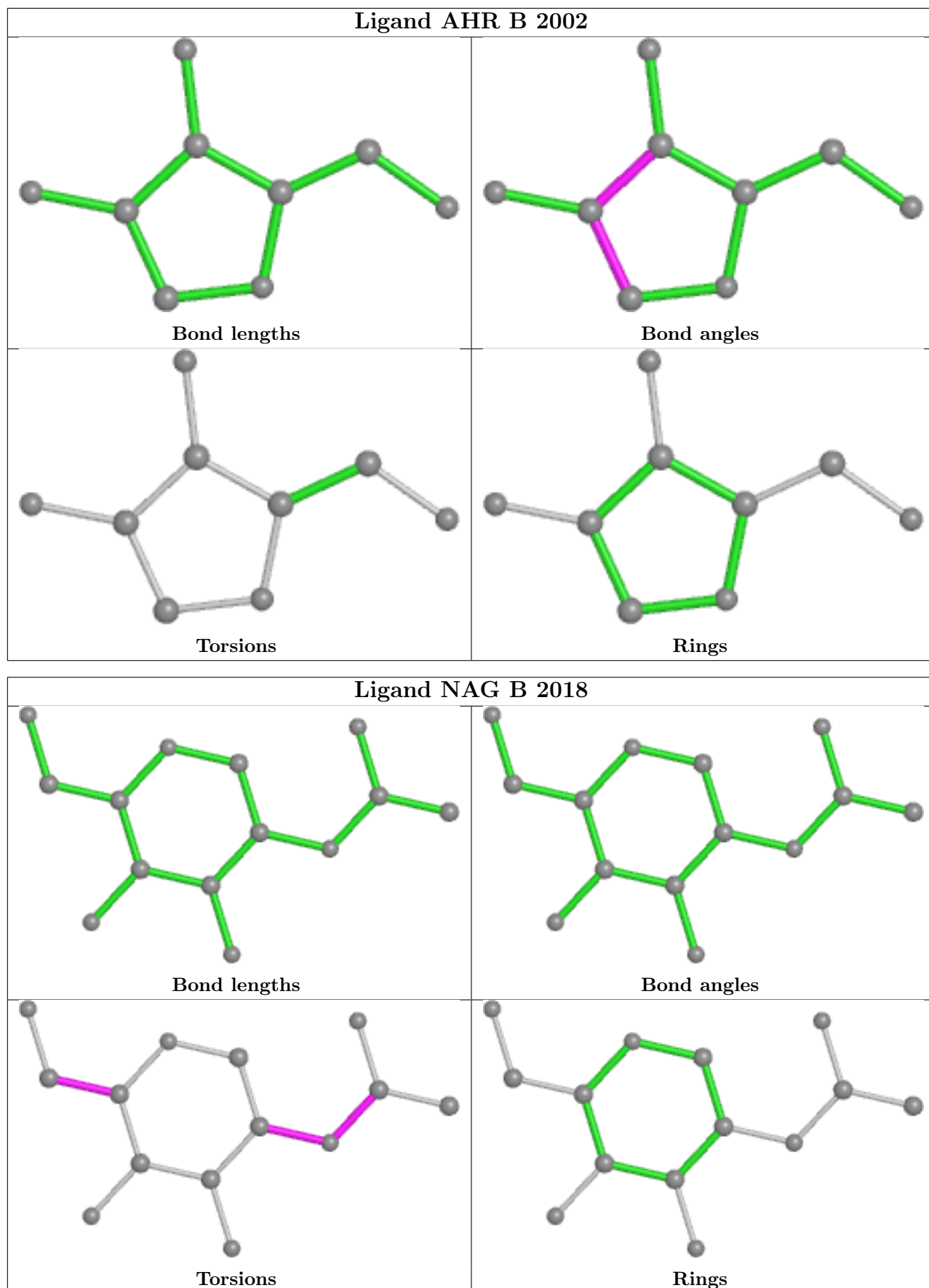


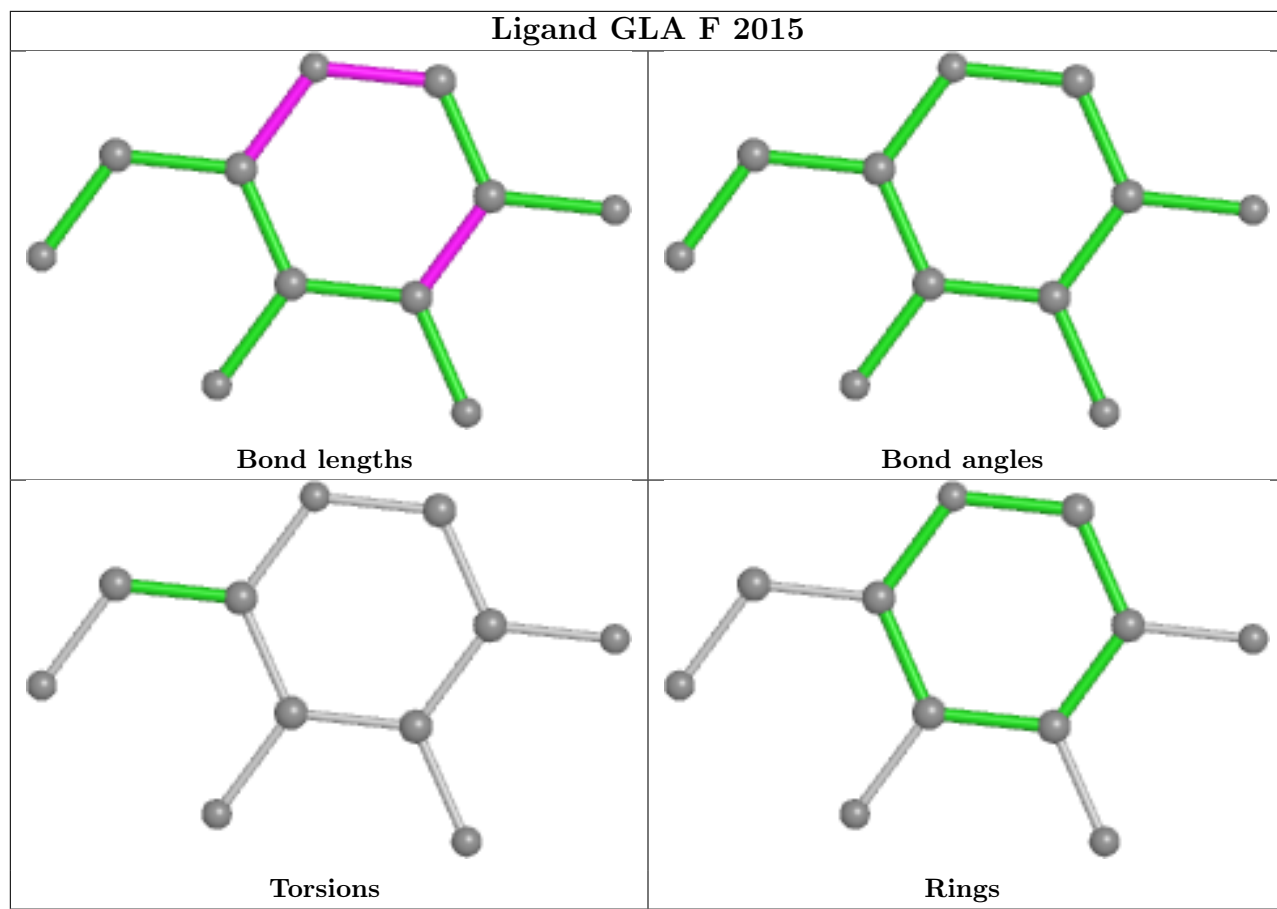


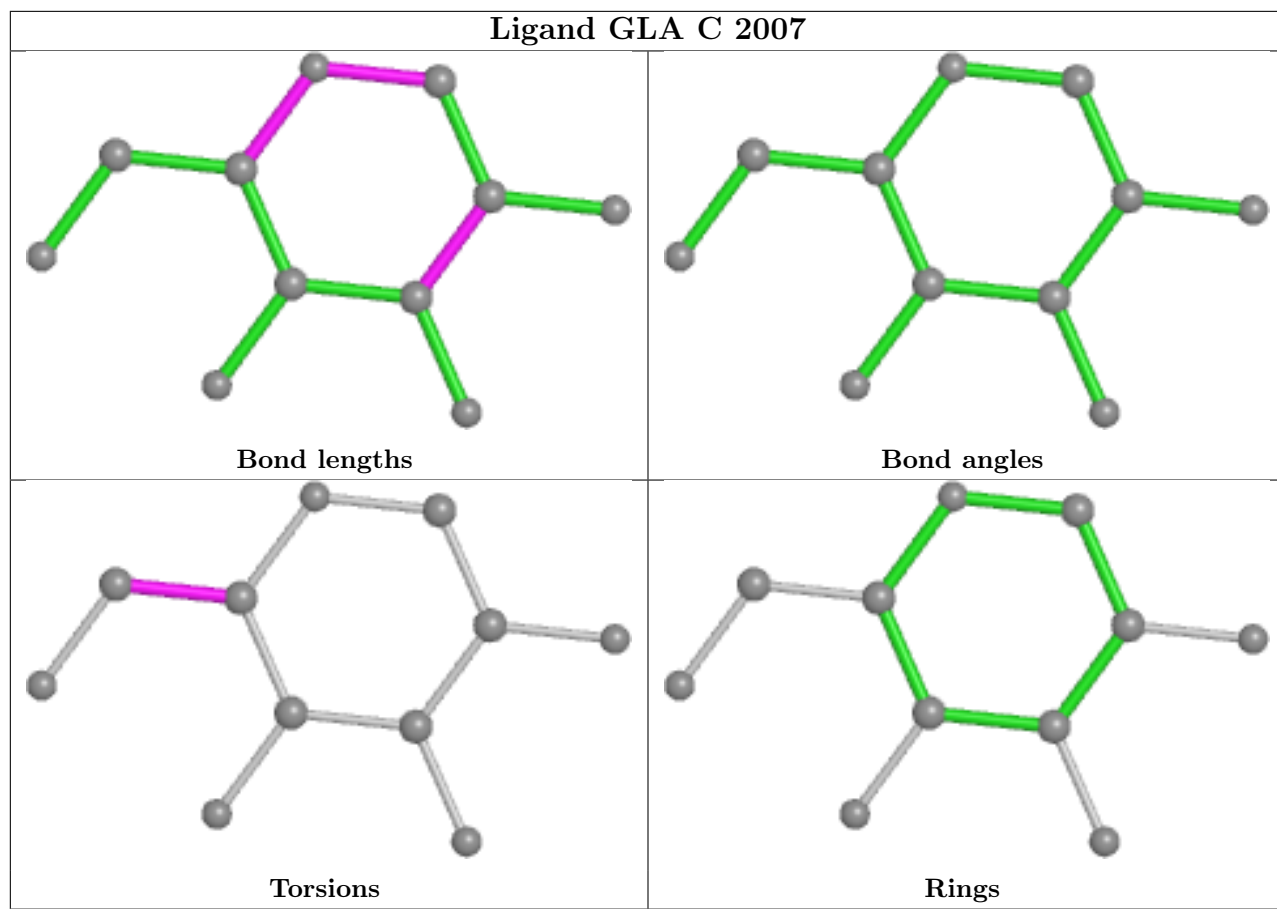


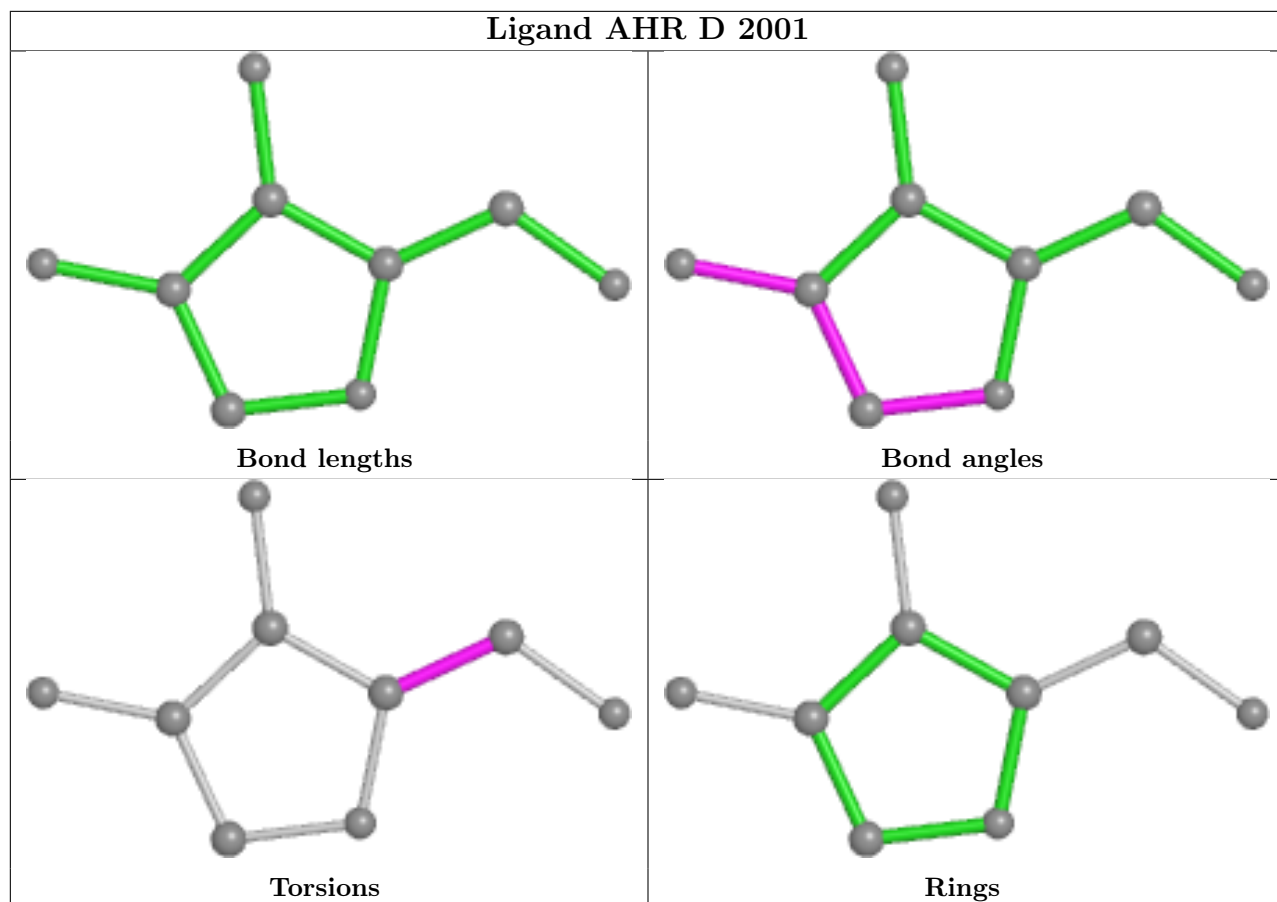


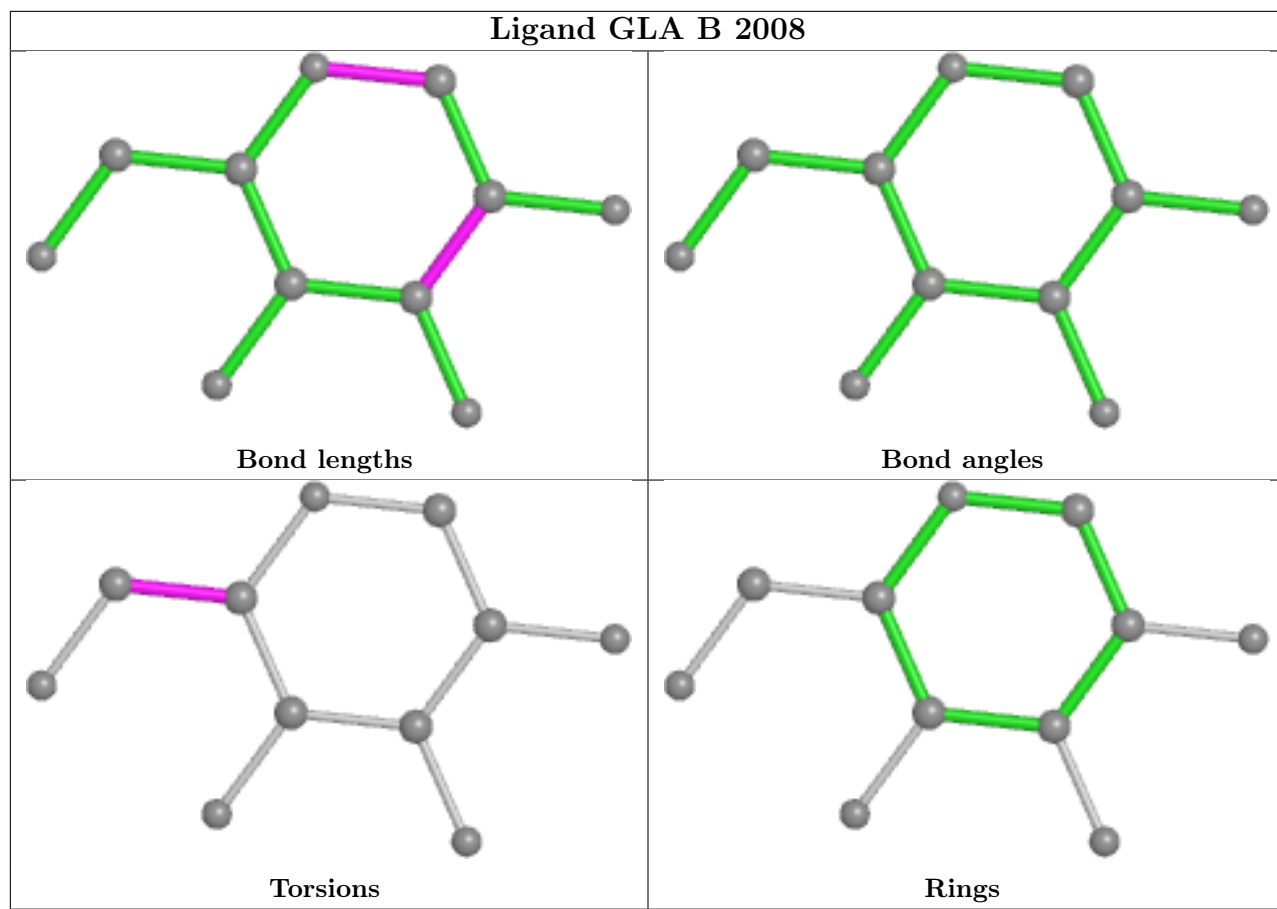


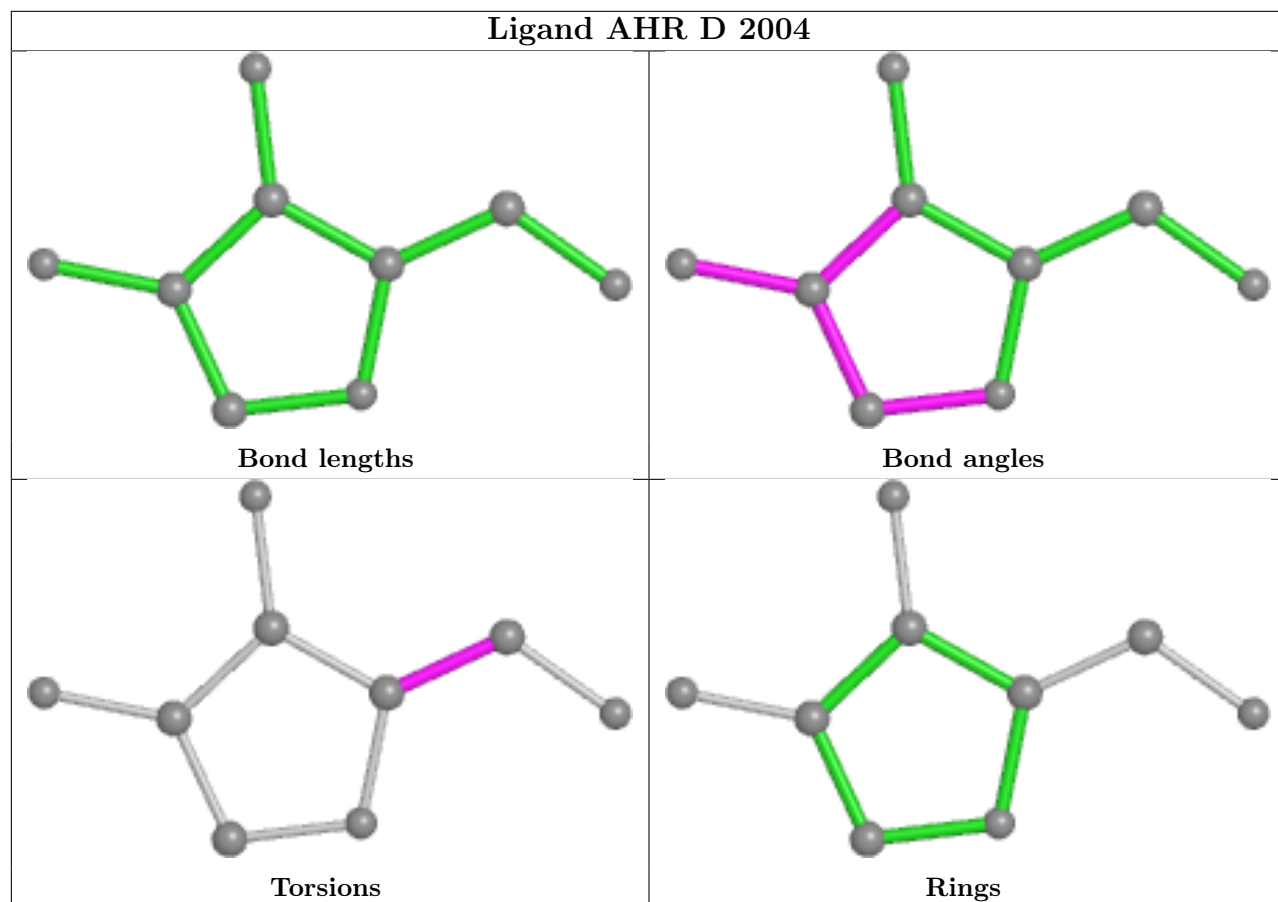


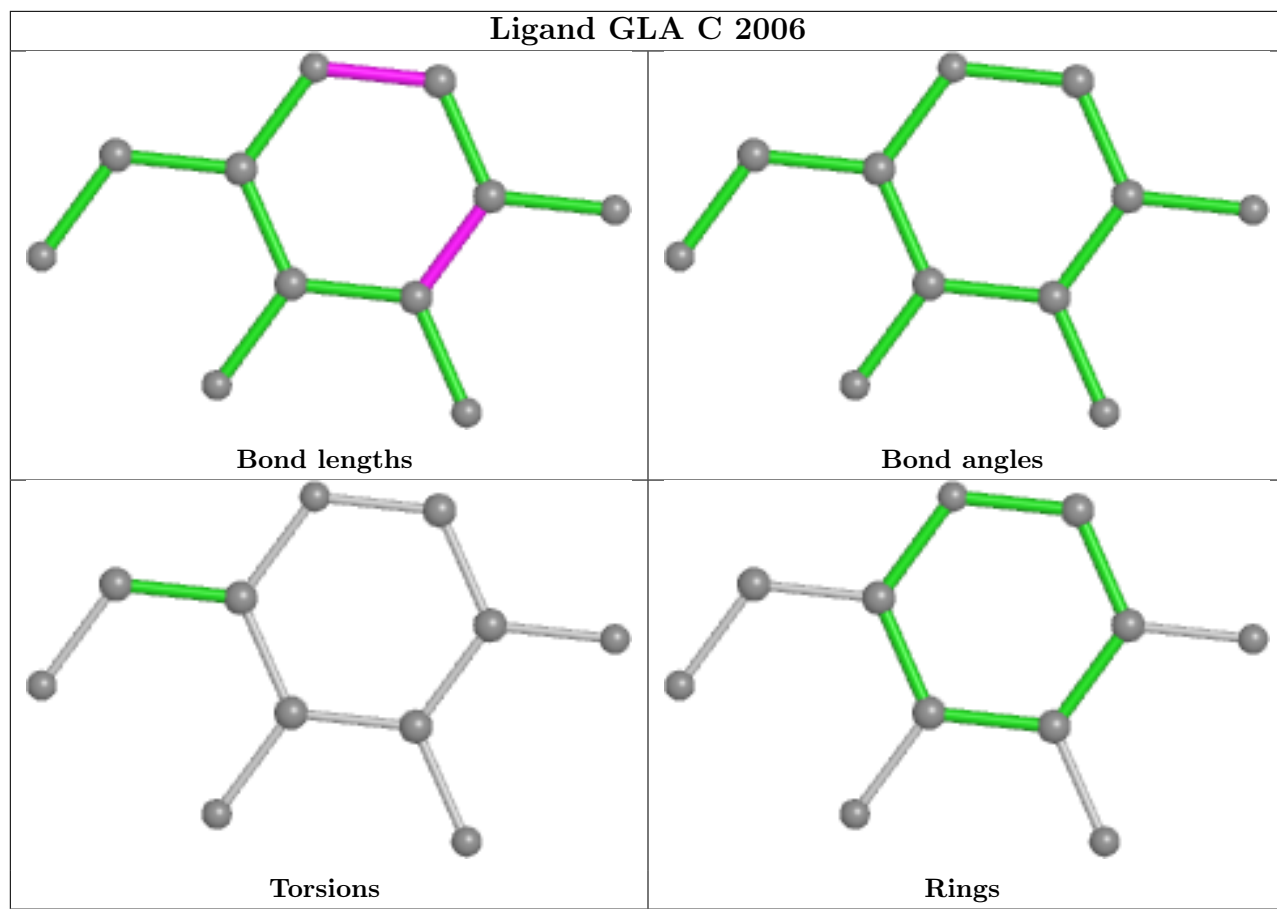


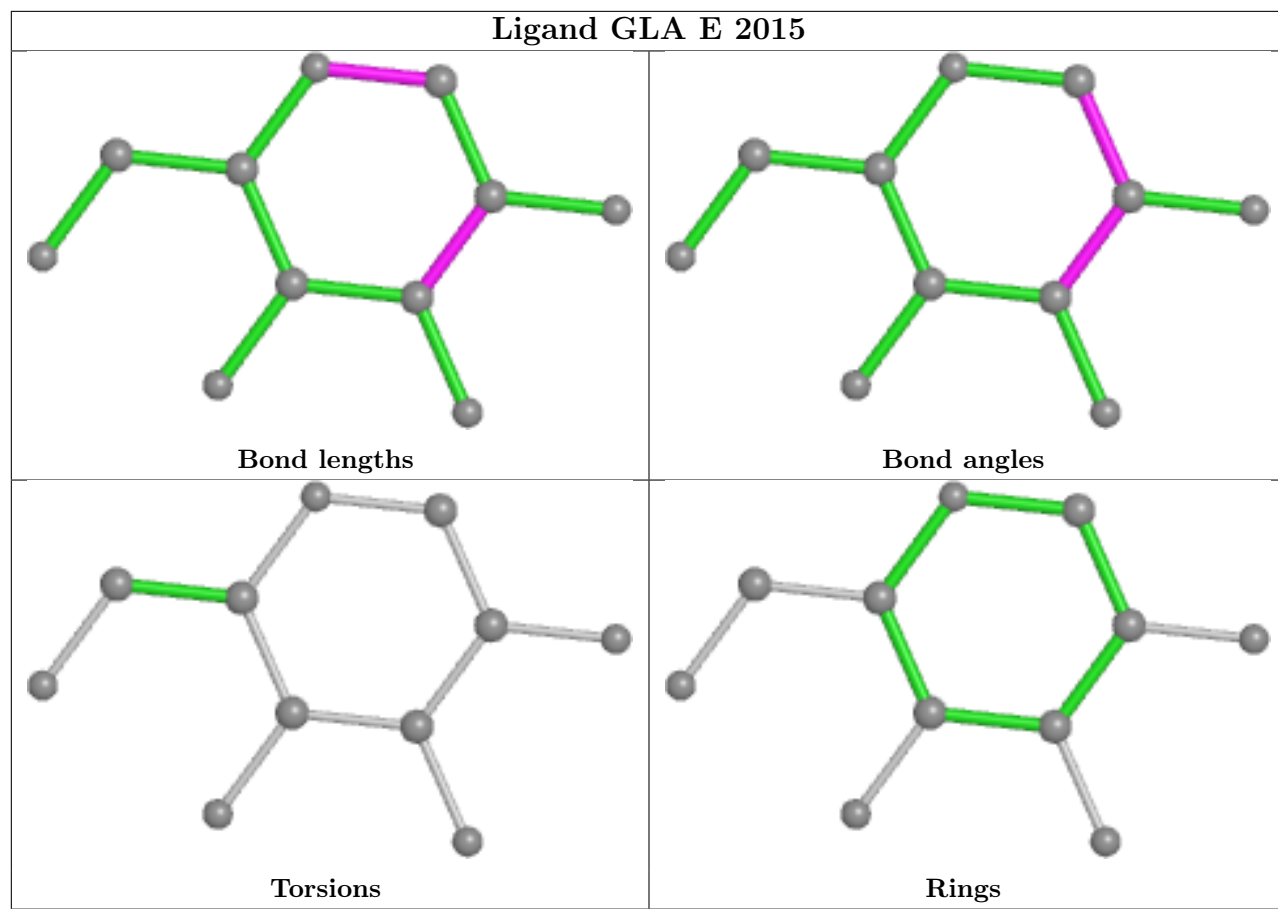


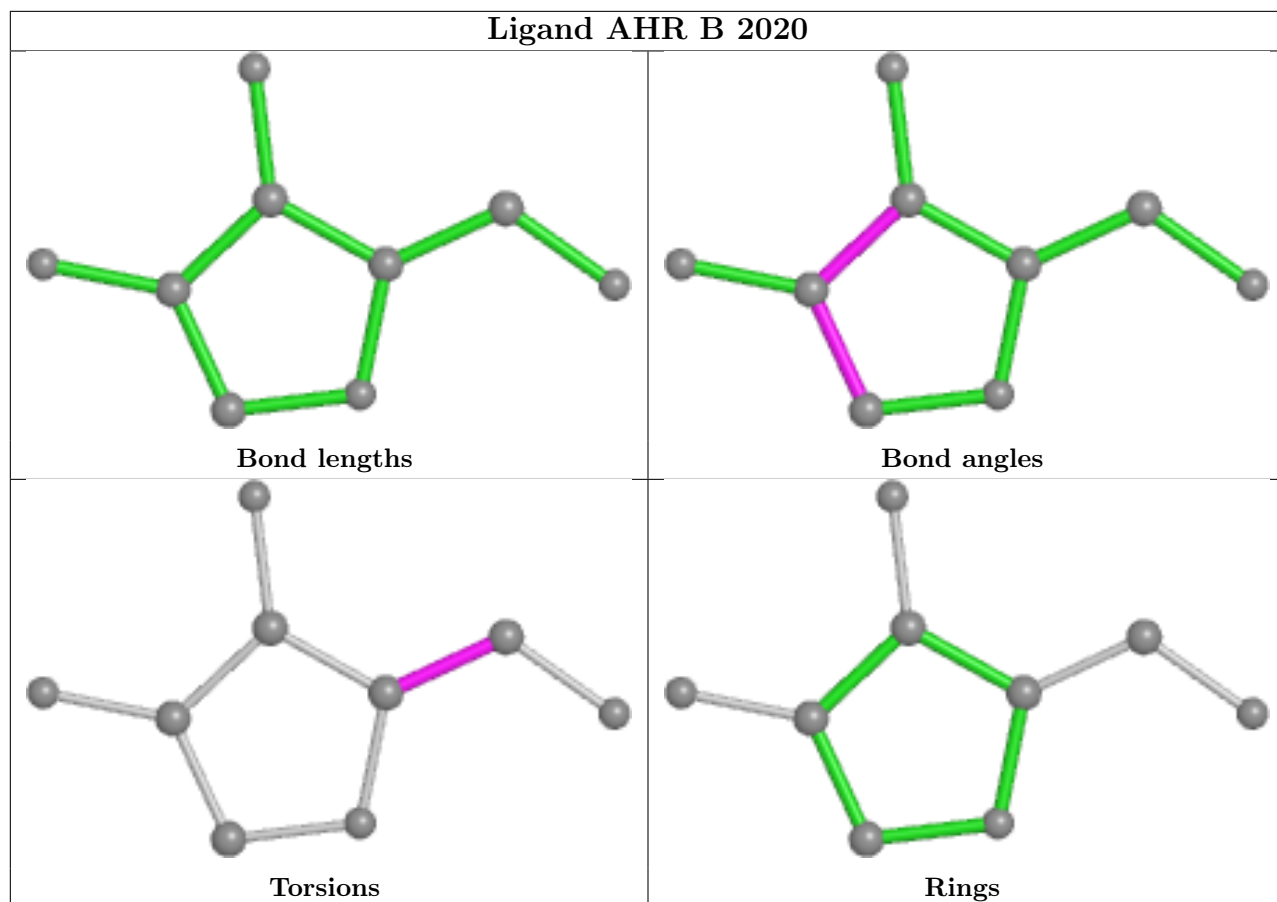


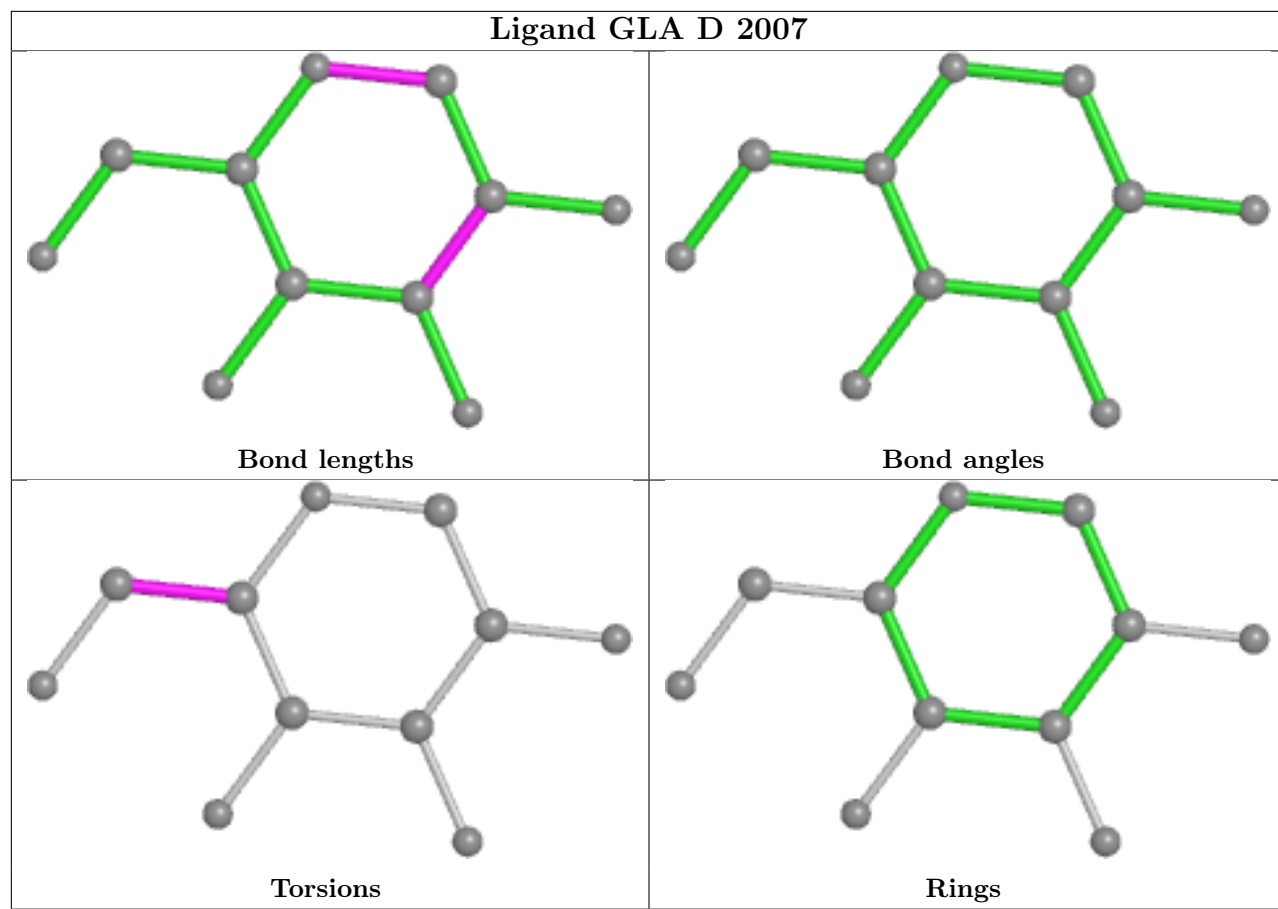


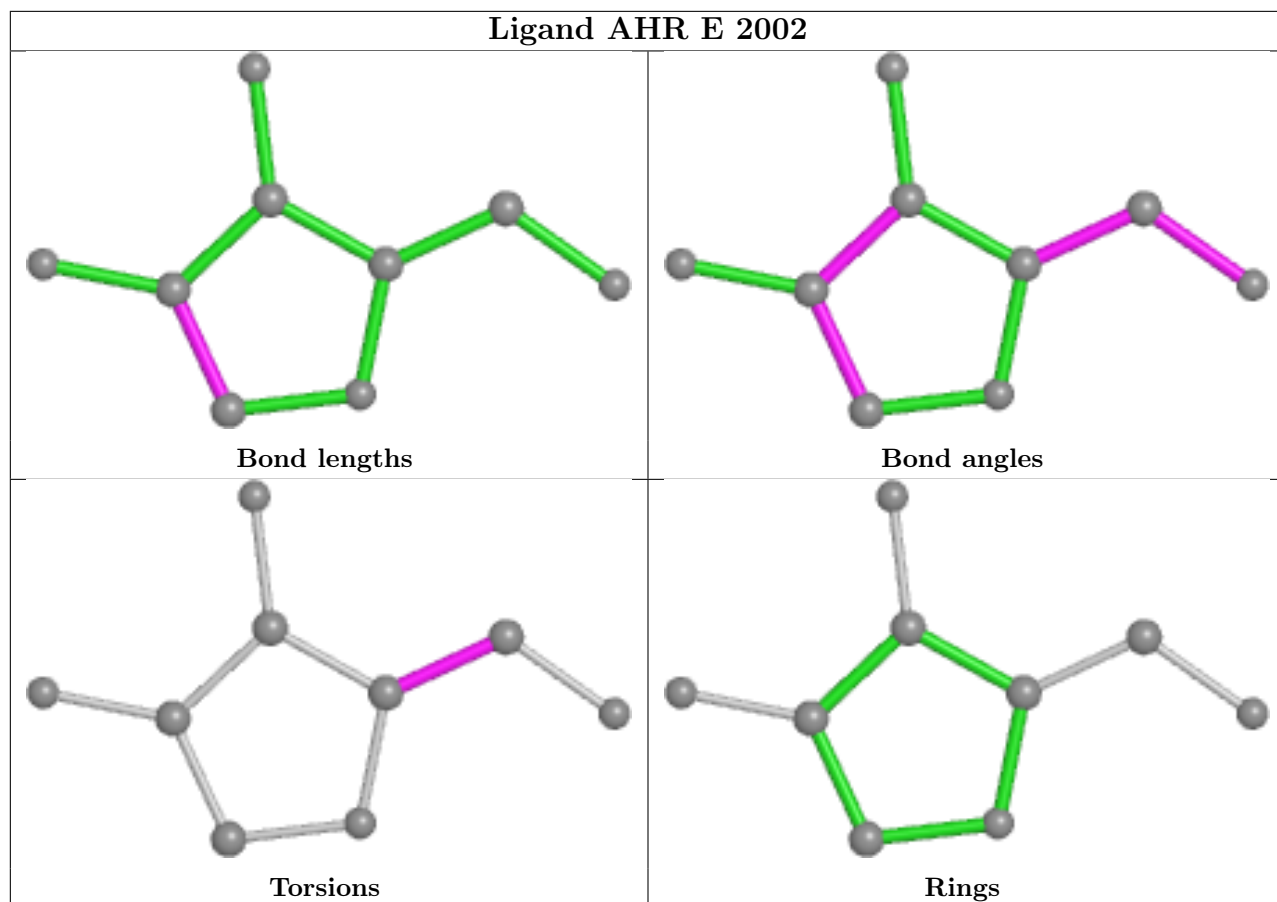


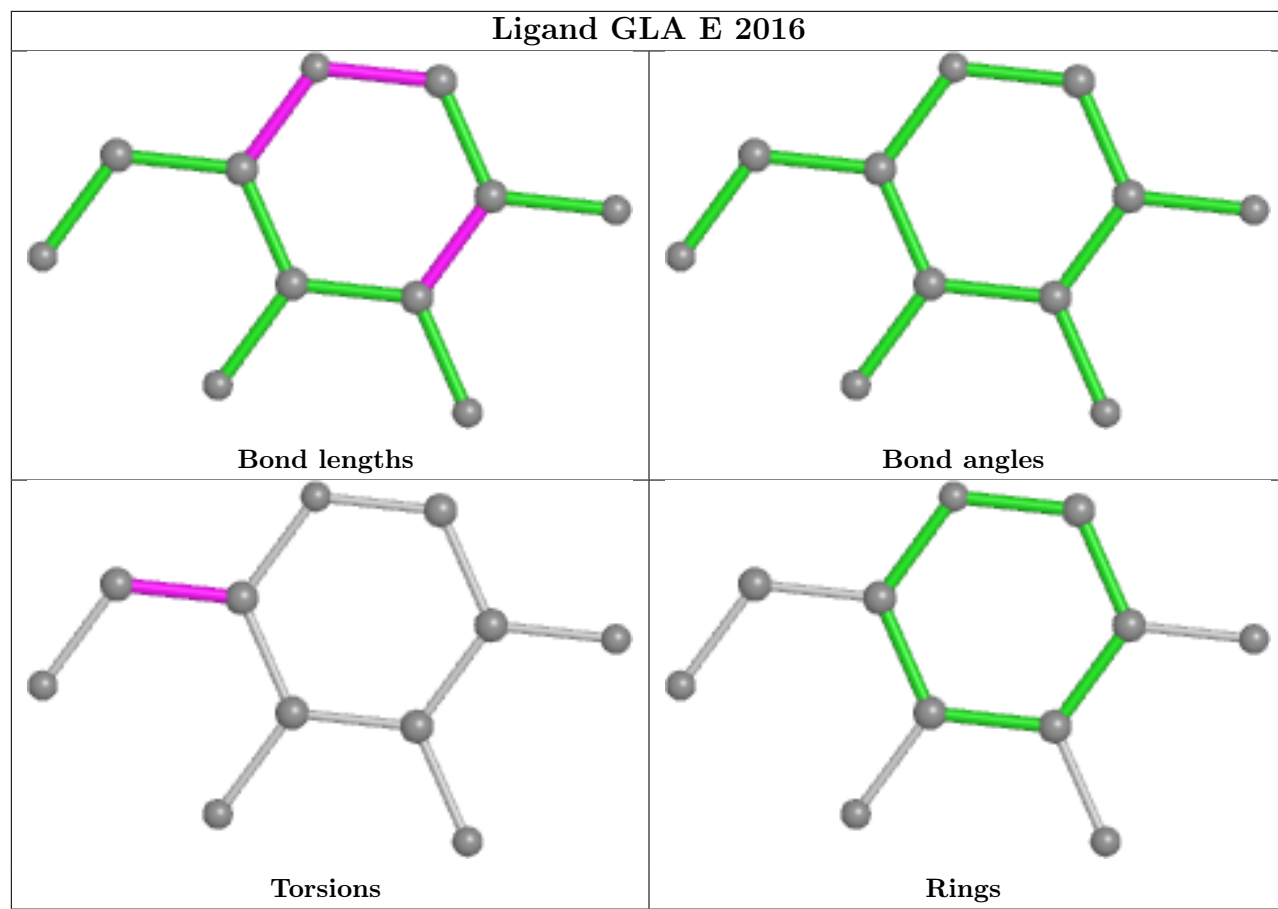


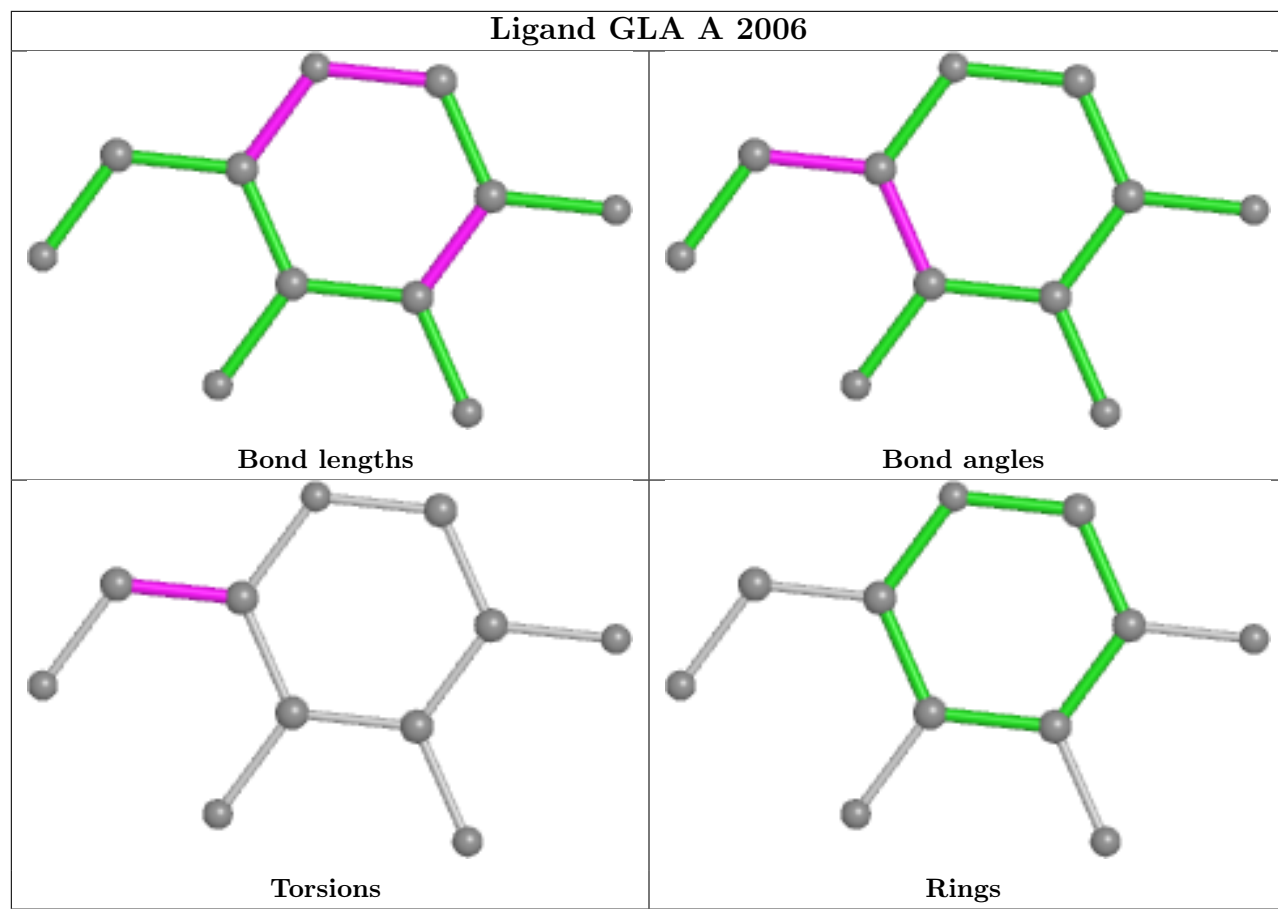


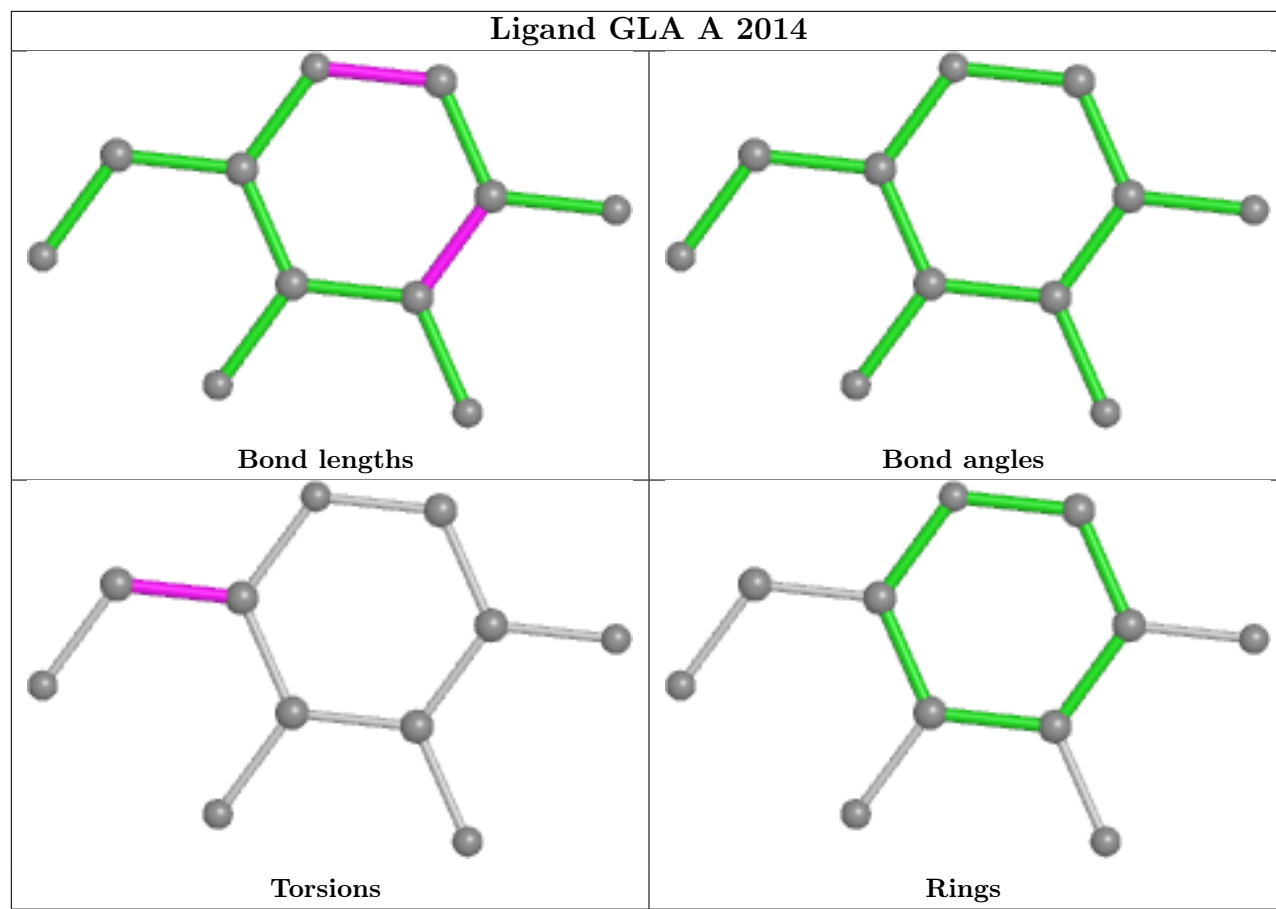












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

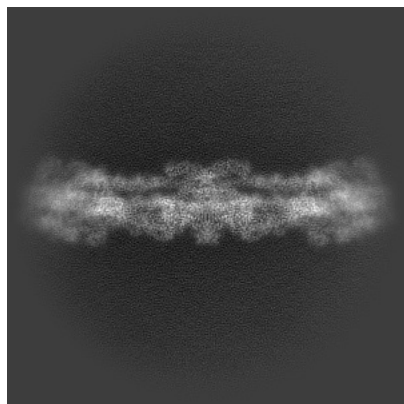
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37389. These allow visual inspection of the internal detail of the map and identification of artifacts.

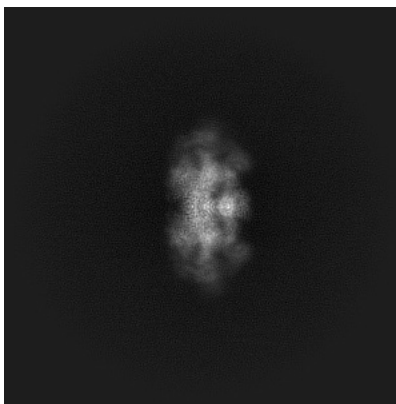
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

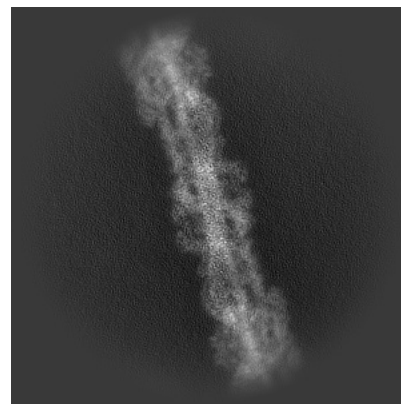
6.1.1 Primary map



X

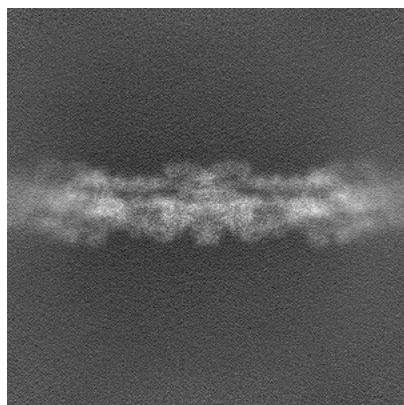


Y

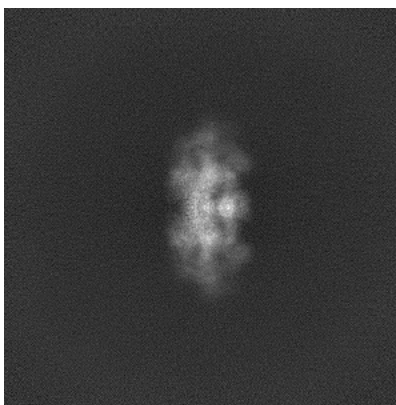


Z

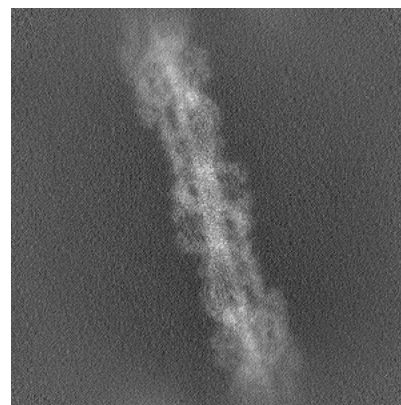
6.1.2 Raw map



X



Y

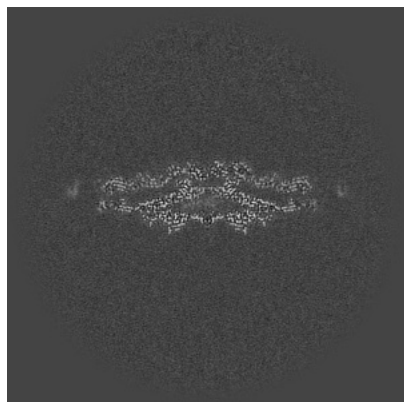


Z

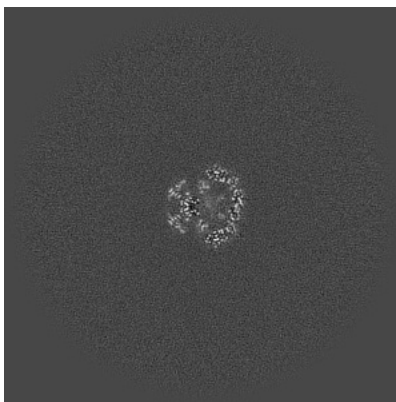
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

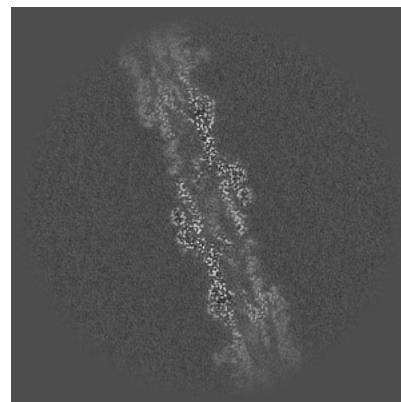
6.2.1 Primary map



X Index: 256

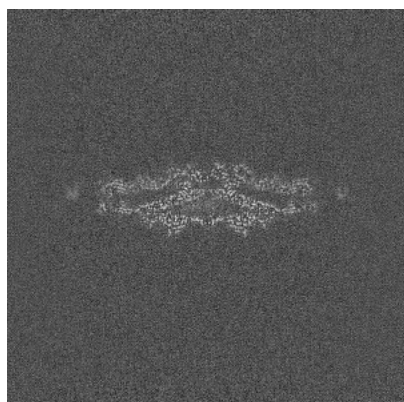


Y Index: 256

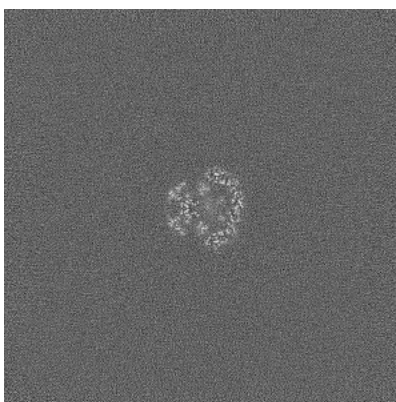


Z Index: 256

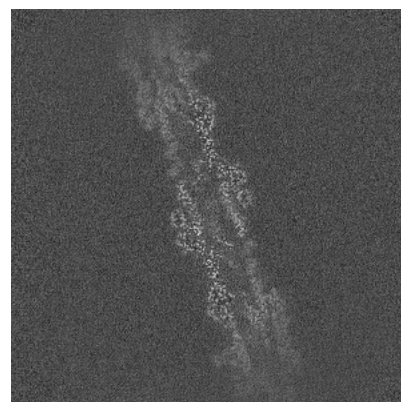
6.2.2 Raw map



X Index: 256



Y Index: 256

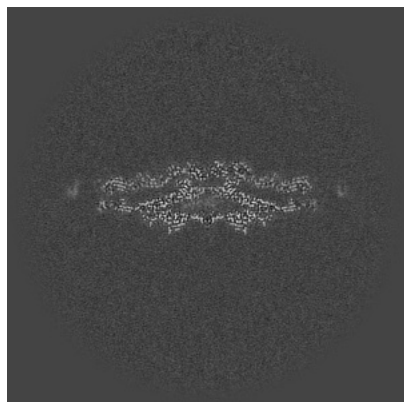


Z Index: 256

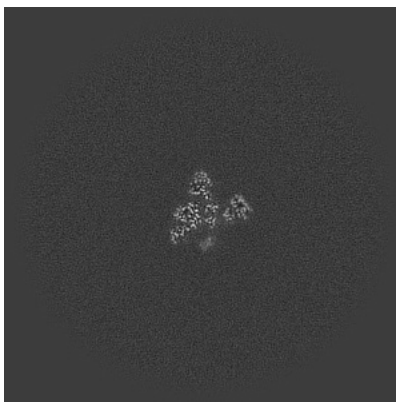
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

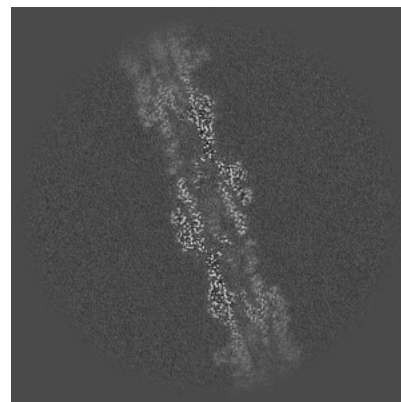
6.3.1 Primary map



X Index: 256

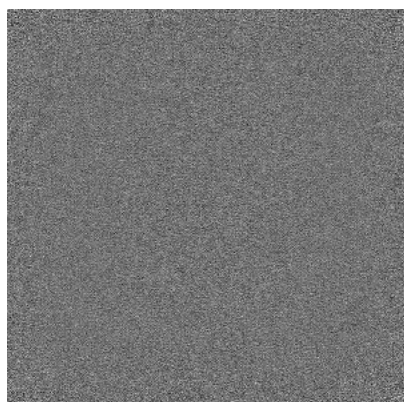


Y Index: 302

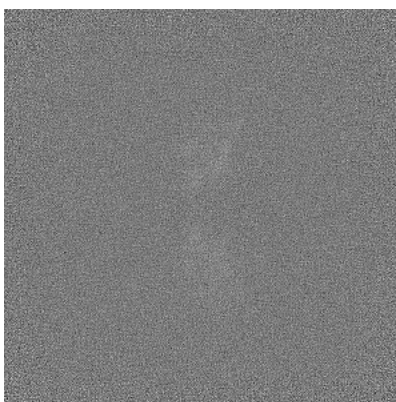


Z Index: 255

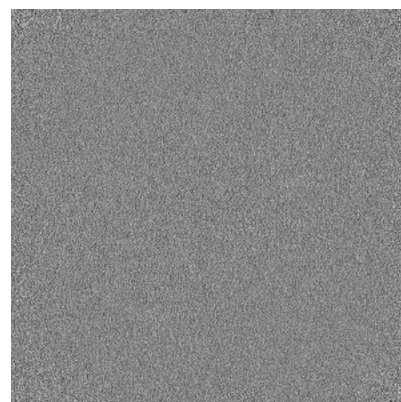
6.3.2 Raw map



X Index: 0



Y Index: 0

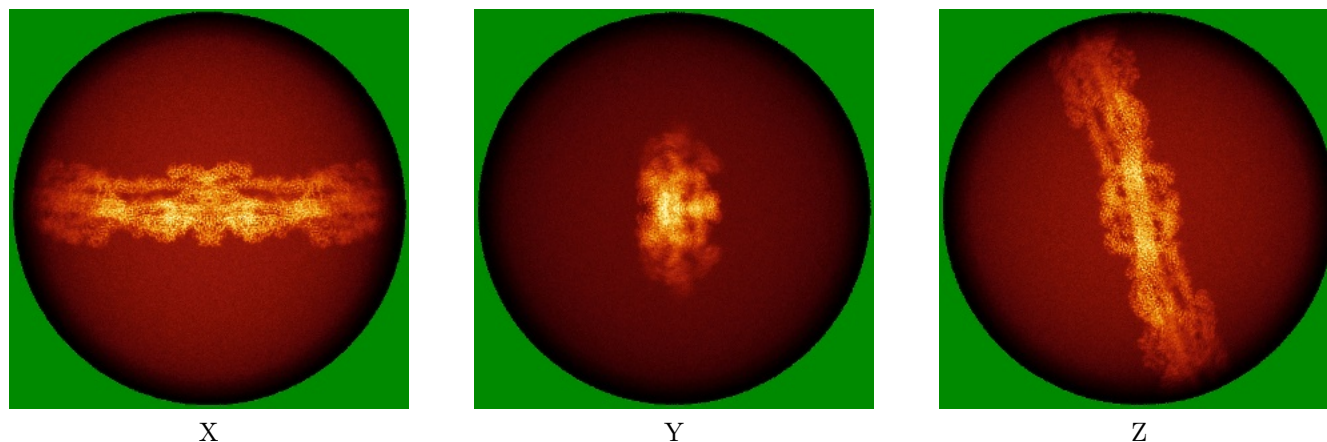


Z Index: 0

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

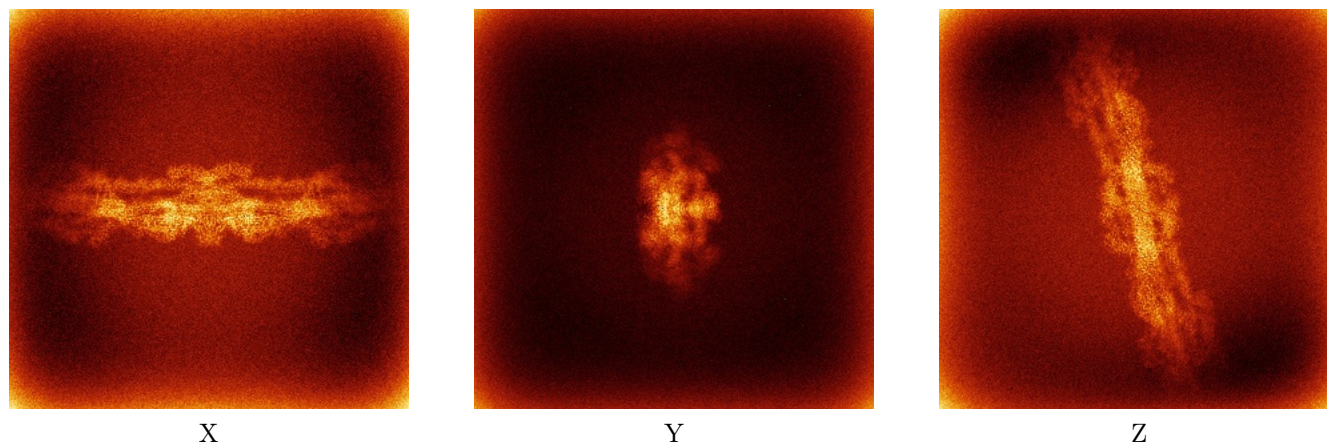


X

Y

Z

6.4.2 Raw map



X

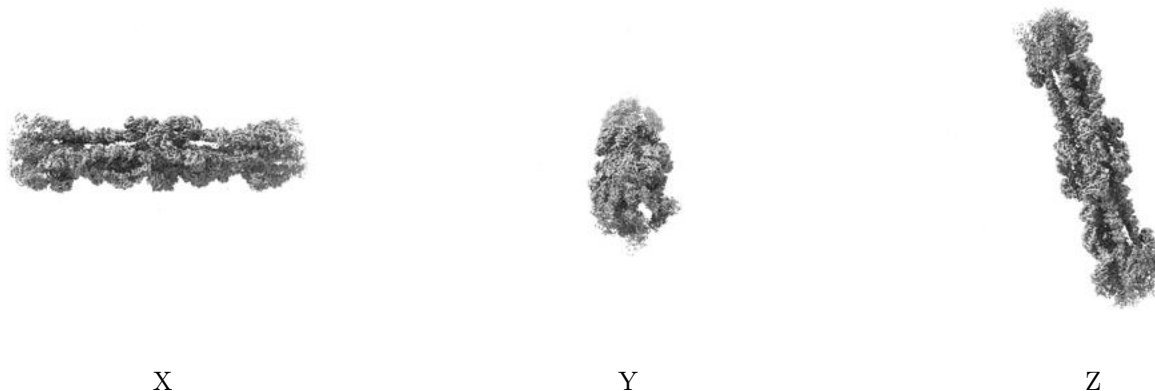
Y

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.

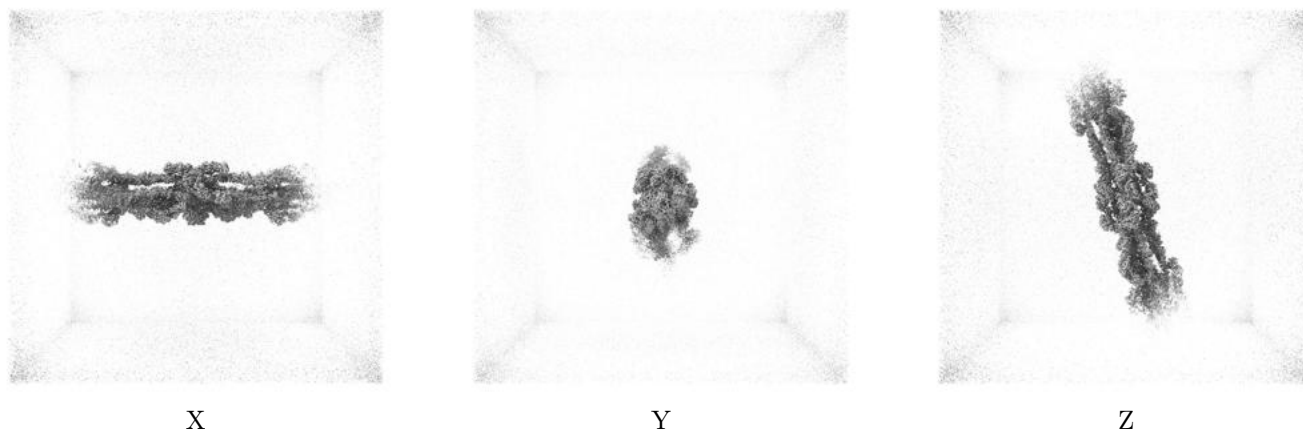
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.23. 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



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.

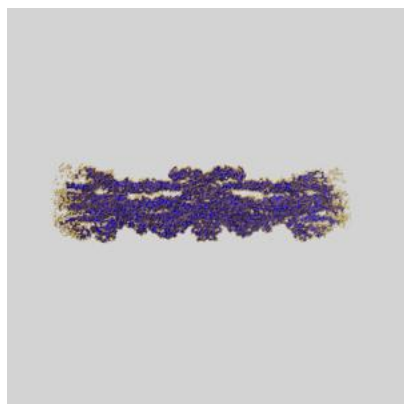
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

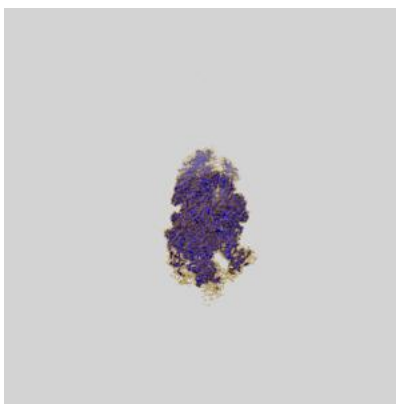
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

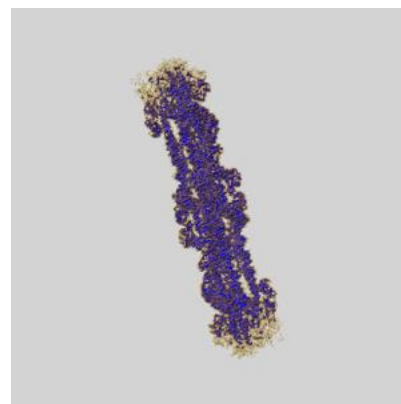
6.6.1 emd_37389_msk_1.map [i](#)



X



Y

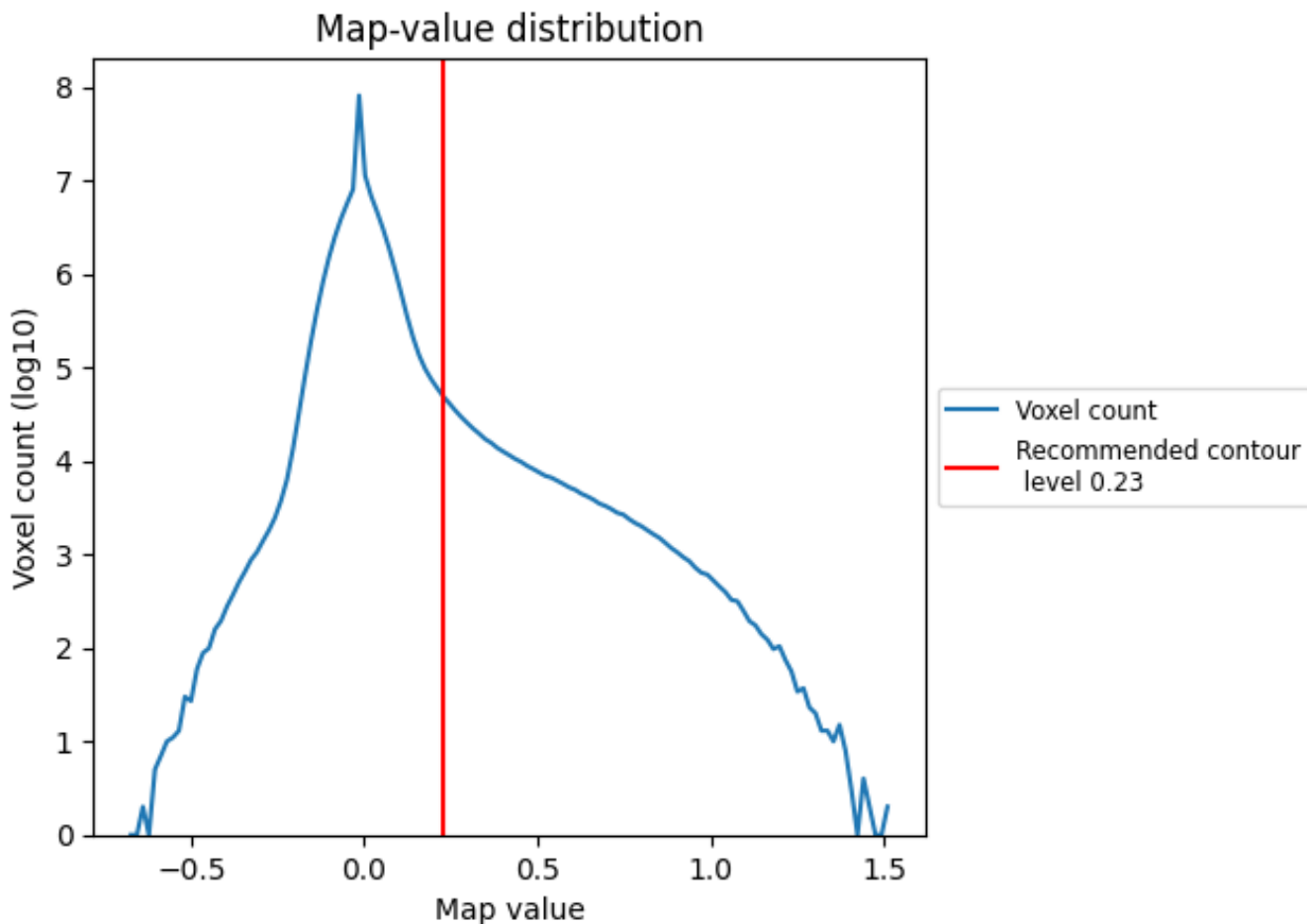


Z

7 Map analysis [i](#)

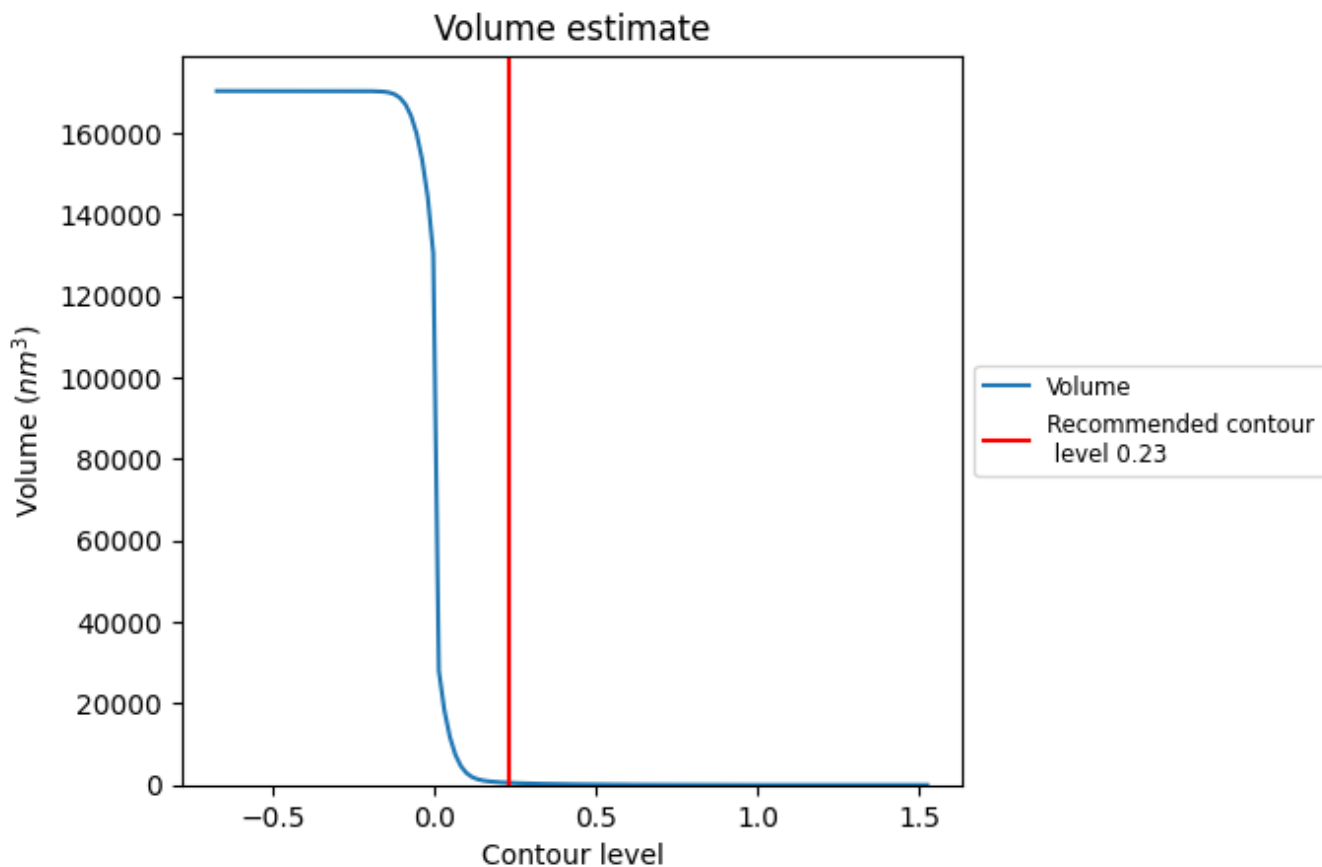
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

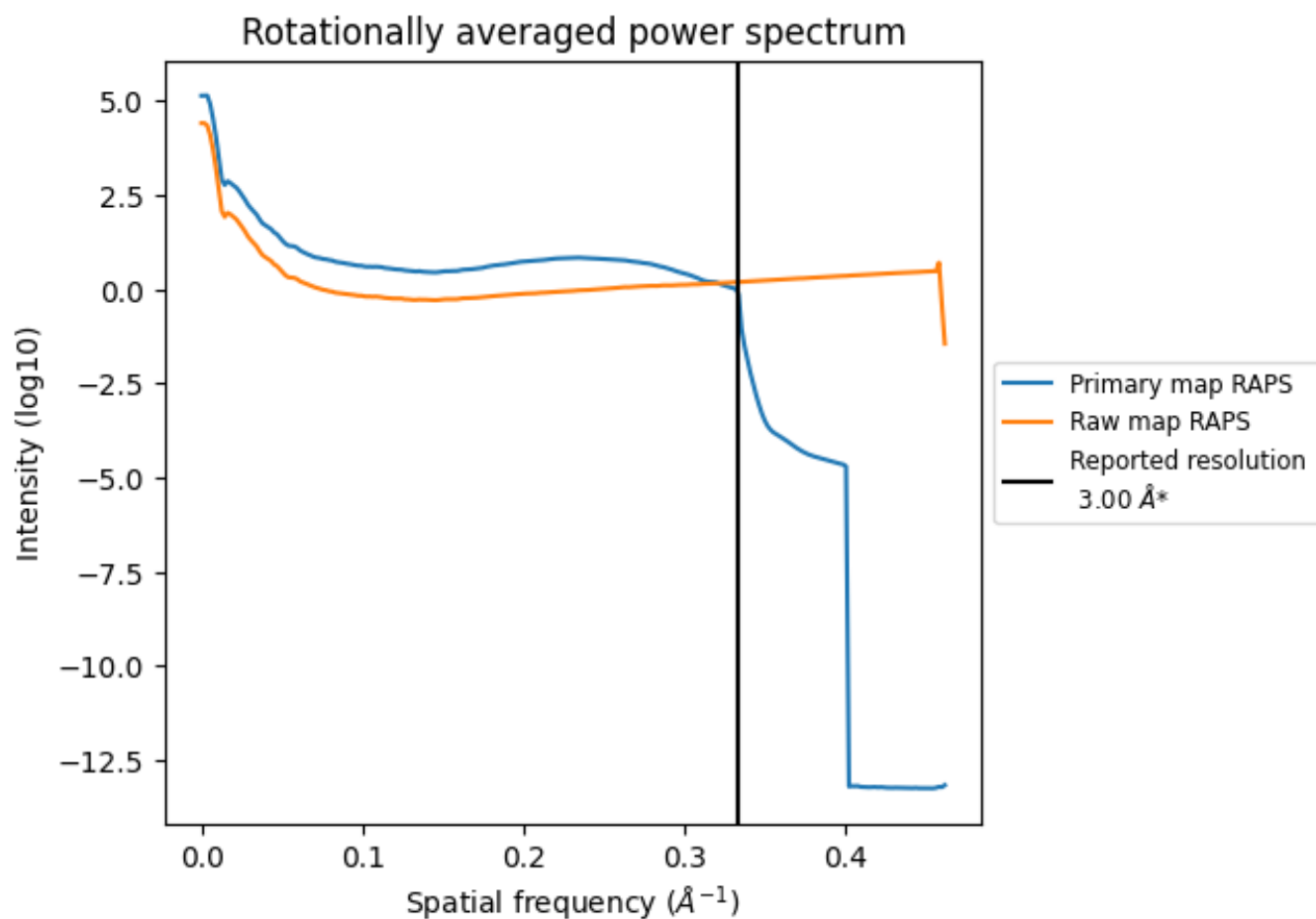
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 527 nm^3 ; this corresponds to an approximate mass of 476 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](#)

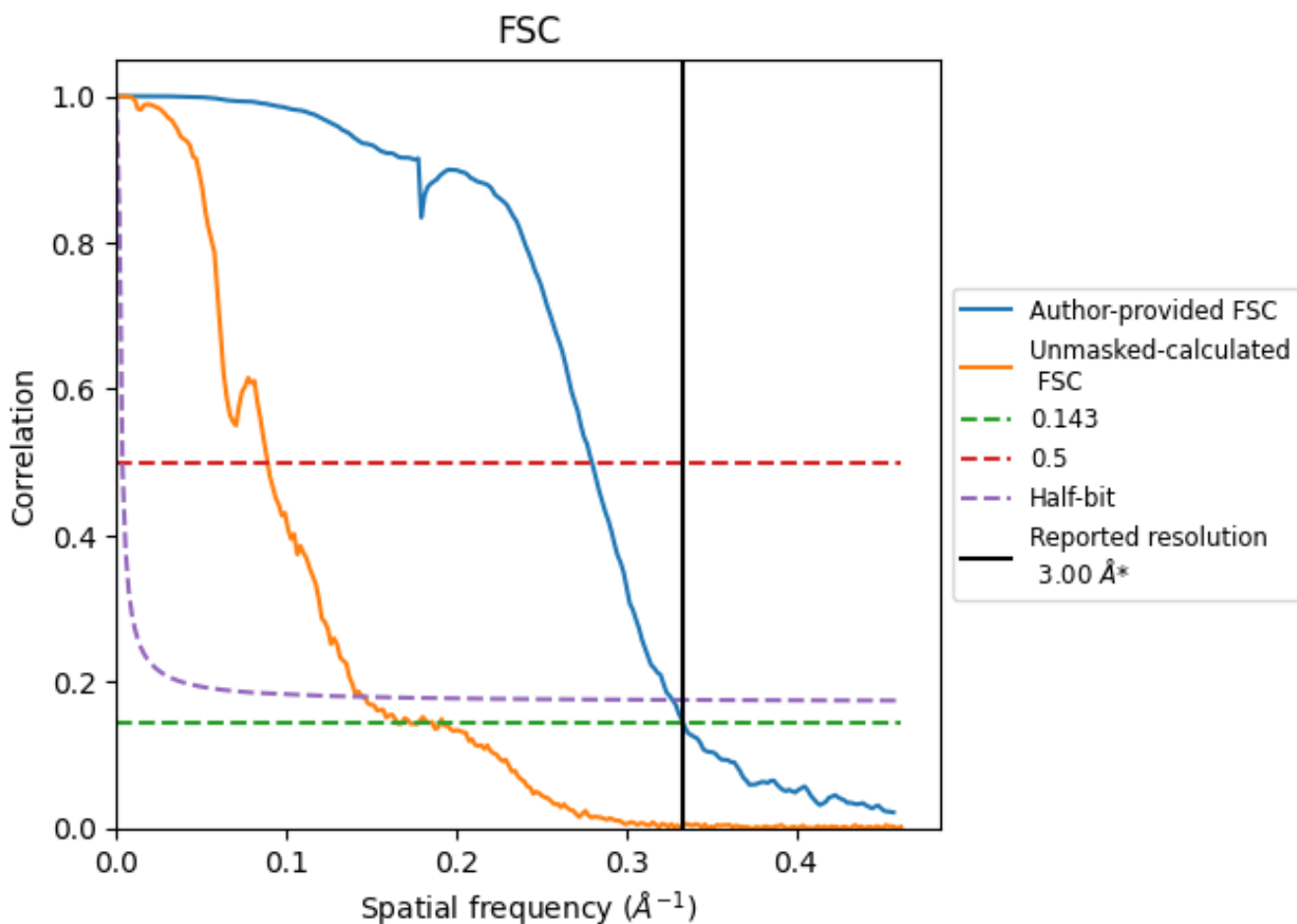


*Reported resolution corresponds to spatial frequency of 0.333 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.333\AA^{-1}

8.2 Resolution estimates [i](#)

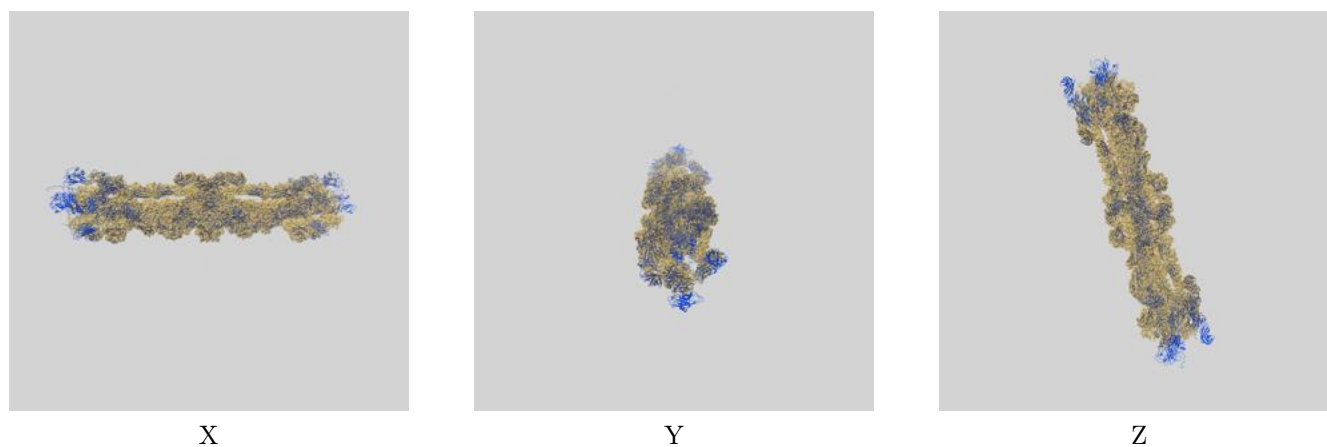
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.00	-	-
Author-provided FSC curve	3.00	3.57	3.06
Unmasked-calculated*	6.04	11.24	6.84

*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 6.04 differs from the reported value 3.0 by more than 10 %

9 Map-model fit [i](#)

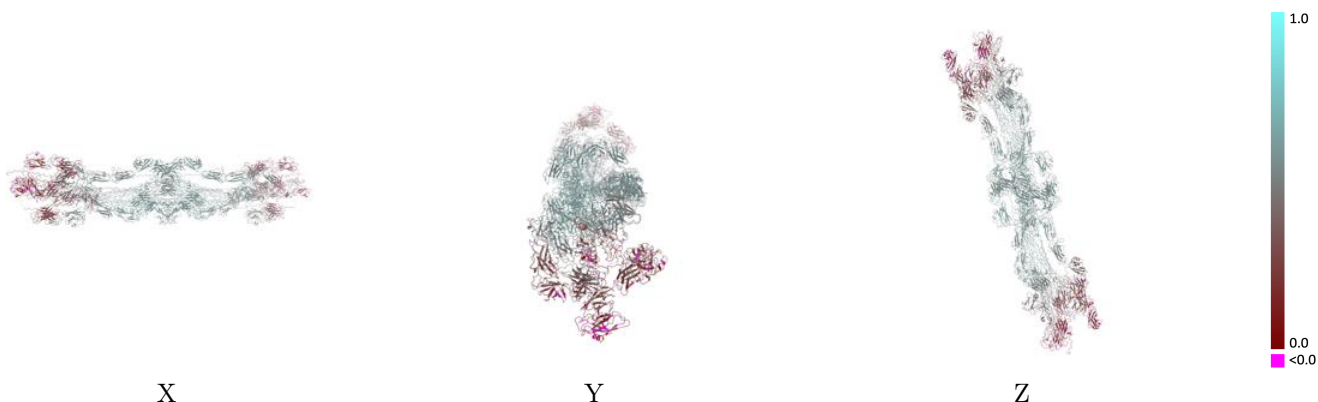
This section contains information regarding the fit between EMDB map EMD-37389 and PDB model 8WA2. Per-residue inclusion information can be found in section 3 on page 53.

9.1 Map-model overlay [i](#)



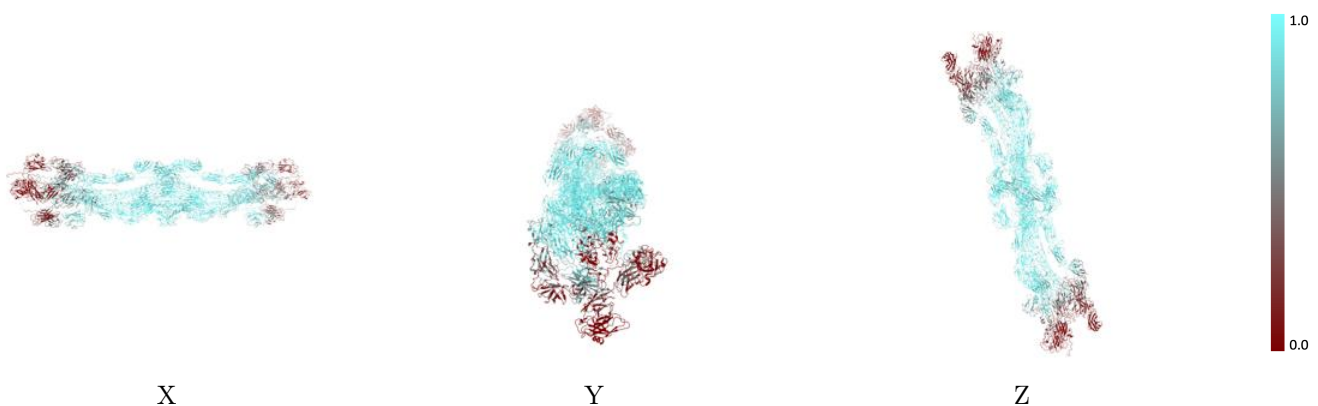
The images above show the 3D surface view of the map at the recommended contour level 0.23 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [\(i\)](#)



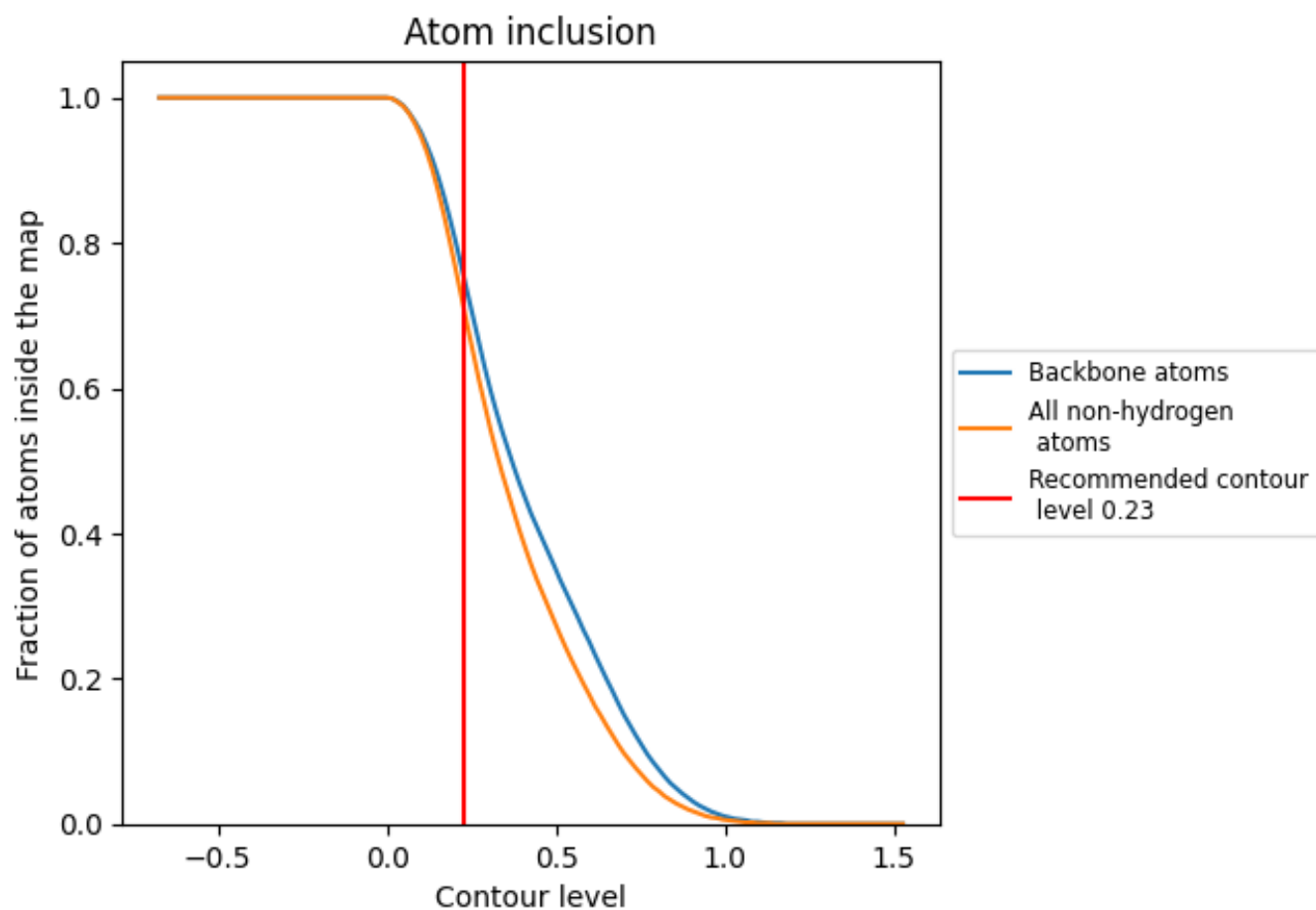
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [\(i\)](#)



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 (0.23).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 75% of all backbone atoms, 70% 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 (0.23) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7030	 0.4570
0	 0.7780	 0.5390
0A	 0.9630	 0.5780
0B	 0.5170	 0.3330
0C	 0.1030	 0.2620
0D	 0.0000	 0.1240
0E	 0.7020	 0.3580
1	 0.8520	 0.5260
1A	 0.8440	 0.5240
1B	 0.8680	 0.5140
1C	 0.0000	 0.2620
1D	 0.0000	 0.2680
1E	 0.3680	 0.3570
2	 0.9260	 0.5380
2A	 0.7110	 0.4020
2B	 0.6840	 0.4460
2C	 0.0000	 0.0900
2D	 0.0000	 0.0530
3	 0.9110	 0.4940
3A	 0.6900	 0.3980
3B	 0.7240	 0.4480
3C	 0.0000	 0.2000
3D	 0.0000	 0.1280
4	 0.8160	 0.4770
4A	 0.9470	 0.5720
4B	 0.8280	 0.5020
4C	 0.0000	 0.1630
4D	 0.5360	 0.4130
5	 0.7240	 0.4800
5A	 0.8420	 0.5660
5B	 0.8620	 0.5280
5C	 0.0000	 0.1930
5D	 0.9170	 0.5420
6	 0.9470	 0.5720
6A	 0.9310	 0.5780



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Chain	Atom inclusion	Q-score
6B	0.8160	0.5310
6C	0.0000	0.1720
6D	0.6550	0.4610
7	0.8680	0.5540
7A	0.8620	0.5180
7B	0.9360	0.5350
7C	0.8750	0.5120
7D	0.7590	0.4250
8	0.8970	0.5490
8A	1.0000	0.6020
8B	0.7870	0.5060
8C	0.9260	0.5860
8D	0.7590	0.5330
9	0.8970	0.5620
9A	0.8680	0.5550
9B	0.9310	0.5480
9C	0.7780	0.5220
9D	0.7450	0.4270
A	0.9040	0.5460
AA	0.8970	0.5580
AB	0.9790	0.5770
AC	0.1070	0.1330
AD	0.9170	0.5680
AE	0.9470	0.5010
B	0.9040	0.5440
BA	0.8950	0.5540
BB	0.8940	0.5440
BC	0.9630	0.5780
BD	0.9330	0.5860
BE	0.7450	0.4390
C	0.6800	0.4450
CA	0.9790	0.5780
CB	0.9310	0.5860
CC	0.7780	0.4690
CD	0.7930	0.4910
CE	0.8420	0.5000
D	0.6430	0.4310
DA	0.8720	0.5340
DB	0.8470	0.5200
DC	0.8890	0.5450
DD	0.9260	0.5220
DE	0.8080	0.5160





















































































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Chain	Atom inclusion	Q-score
E	0.4780	0.3750
EA	0.9310	0.5840
EB	0.0000	0.1940
EC	0.9560	0.5550
ED	0.8890	0.5400
EE	0.9210	0.5520
F	0.4870	0.3680
FA	0.7860	0.4320
FB	0.0000	0.2820
FC	0.7930	0.4170
FD	0.9260	0.5590
FE	0.9570	0.5680
G	0.8520	0.4770
GA	0.9030	0.5140
GB	0.0530	0.1760
GC	1.0000	0.5770
GD	0.8970	0.5680
GE	0.8390	0.5100
H	0.8010	0.4250
HA	0.7410	0.4240
HB	0.1050	0.3060
HC	0.9260	0.5570
HD	0.8610	0.5370
HE	0.8420	0.4860
I	0.7730	0.4450
IA	0.7410	0.4510
IB	0.2340	0.3620
IC	0.9260	0.5610
ID	0.9260	0.5270
IE	0.8940	0.5000
J	0.7780	0.3940
JA	0.7780	0.3850
JB	0.2500	0.3280
JC	0.8970	0.5550
JD	0.8440	0.4440
JE	0.8720	0.5120
K	0.7410	0.4130
KA	0.8440	0.4740
KB	0.1840	0.3940
KC	0.8890	0.5240
KD	0.8890	0.5280
KE	0.8080	0.4650





















































































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Chain	Atom inclusion	Q-score
L	 0.7780	 0.4480
LA	 0.6900	 0.3950
LB	 0.4810	 0.3960
LC	 0.8890	 0.5170
LD	 0.8890	 0.5310
LE	 0.5790	 0.4390
M	 0.8220	 0.4470
MA	 0.8520	 0.4740
MB	 0.2440	 0.3120
MC	 0.8440	 0.5570
MD	 0.8610	 0.4970
ME	 0.8970	 0.5040
N	 0.6210	 0.2840
NA	 0.8520	 0.4270
NB	 0.3330	 0.3090
NC	 0.8150	 0.4630
ND	 0.7220	 0.4700
NE	 0.7890	 0.4830
O	 0.7780	 0.4630
OA	 0.8520	 0.5060
OB	 0.1850	 0.1930
OC	 0.8060	 0.4770
OD	 0.6940	 0.3100
OE	 0.9310	 0.5220
P	 0.7780	 0.4600
PA	 0.8280	 0.5150
PB	 0.5180	 0.4800
PC	 0.8060	 0.4790
PD	 0.8670	 0.4610
PE	 0.8510	 0.4710
Q	 0.8520	 0.4620
QA	 0.7780	 0.4610
QB	 0.4810	 0.2860
QC	 0.8330	 0.5180
QD	 0.8890	 0.5130
QE	 0.7500	 0.4370
R	 0.9310	 0.5370
RA	 0.8150	 0.4940
RB	 0.4440	 0.2560
RC	 0.8060	 0.3840
RD	 0.7780	 0.3870
RE	 0.9110	 0.5200





















































































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Chain	Atom inclusion	Q-score
S	 0.7780	 0.4730
SA	 0.7110	 0.4530
SB	 0.7410	 0.4440
SC	 0.8440	 0.4550
SD	 0.8060	 0.3980
SE	 0.9150	 0.5260
T	 0.8150	 0.4580
TA	 0.7410	 0.4780
TB	 0.6300	 0.3990
TC	 0.8150	 0.4830
TD	 0.8150	 0.4730
TE	 0.8420	 0.4880
U	 0.8000	 0.4630
UA	 0.8890	 0.4630
UB	 0.7040	 0.4000
UC	 0.7780	 0.3260
UD	 0.8610	 0.3960
UE	 0.8160	 0.5000
V	 0.7780	 0.4470
VA	 0.9170	 0.4570
VB	 0.6440	 0.4450
VC	 0.8890	 0.4570
VD	 0.8060	 0.4110
VE	 0.8750	 0.5190
W	 0.8330	 0.4910
WA	 0.7780	 0.4080
WB	 0.5530	 0.3180
WC	 0.7780	 0.4970
WD	 0.7780	 0.4540
WE	 0.7890	 0.5130
X	 0.8610	 0.4700
XA	 0.7780	 0.3600
XB	 0.4480	 0.2390
XC	 0.8610	 0.4050
XD	 0.8150	 0.3350
XE	 0.8040	 0.5410
Y	 0.8330	 0.4590
YA	 0.8000	 0.3910
YB	 0.7630	 0.4680
YC	 0.8890	 0.4860
YD	 0.7780	 0.2770
YE	 0.8930	 0.5300





















































































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Chain	Atom inclusion	Q-score
Z	 0.8610	 0.4340
ZA	 0.7410	 0.4490
ZB	 0.7630	 0.4570
ZC	 0.6670	 0.4550
ZD	 0.6390	 0.4140
ZE	 0.7930	 0.3920
a	 0.8440	 0.4410
aA	 0.8330	 0.4450
aB	 0.7930	 0.4980
aC	 0.8520	 0.4480
aD	 0.5180	 0.3540
aE	 0.6050	 0.3810
b	 0.7780	 0.4510
bA	 0.8330	 0.4410
bB	 0.8280	 0.5180
bC	 0.5000	 0.2290
bD	 0.7780	 0.4130
bE	 0.7590	 0.4020
c	 0.8060	 0.4370
cA	 0.7780	 0.4530
cB	 0.8970	 0.5360
cC	 0.5280	 0.3360
cD	 0.6810	 0.4300
cE	 0.7660	 0.3640
d	 0.7780	 0.4580
dA	 0.8610	 0.3890
dB	 0.8420	 0.4970
dC	 0.6300	 0.3600
dD	 0.6580	 0.4100
dE	 0.7140	 0.4370
e	 0.8150	 0.4870
eA	 0.9170	 0.4630
eB	 0.9150	 0.5530
eC	 0.6300	 0.4180
eD	 0.7630	 0.3990
eE	 0.7860	 0.4490
f	 0.9440	 0.5040
fA	 0.6940	 0.4290
fB	 0.7870	 0.5330
fC	 0.5750	 0.3830
fD	 0.7230	 0.4490
fE	 0.8720	 0.4850





















































































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Chain	Atom inclusion	Q-score
g	 0.8330	 0.4840
gA	 0.8150	 0.4250
gB	 0.8280	 0.5060
gC	 0.6580	 0.4490
gD	 0.6390	 0.4450
gE	 0.8160	 0.4100
h	 0.7500	 0.4980
hA	 0.8330	 0.4740
hB	 0.0000	 0.1560
hC	 0.7890	 0.4280
hD	 0.6320	 0.3890
hE	 0.8420	 0.5460
i	 0.8520	 0.4700
iA	 0.7780	 0.4720
iB	 0.0000	 0.2310
iC	 0.6170	 0.4160
iD	 0.6670	 0.4500
iE	 0.7680	 0.4430
j	 0.8890	 0.4050
jA	 0.8150	 0.4760
jB	 0.0260	 0.2520
jC	 0.7220	 0.4740
jD	 0.6670	 0.3890
jE	 0.6580	 0.4430
k	 0.6670	 0.4760
kA	 0.7780	 0.4850
kB	 0.0790	 0.3290
kC	 0.6050	 0.4680
kD	 0.5000	 0.3100
kE	 0.7870	 0.5230
l	 0.8520	 0.5100
lA	 0.7450	 0.5000
lB	 0.1280	 0.2920
lC	 0.7410	 0.4410
lD	 0.4070	 0.3160
lE	 0.7140	 0.4250
m	 0.8150	 0.5080
mA	 0.7630	 0.4890
mB	 0.1940	 0.3010
mC	 0.4890	 0.3020
mD	 0.4440	 0.3290
mE	 0.6900	 0.3890









































































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Chain	Atom inclusion	Q-score
n	 0.8080	 0.5140
nA	 0.8950	 0.5250
nB	 0.1840	 0.3300
nC	 0.5280	 0.3920
nD	 0.5560	 0.3220
nE	 0.6550	 0.3630
o	 0.7630	 0.5030
oA	 0.8510	 0.5520
oB	 0.3330	 0.3180
oC	 0.5180	 0.3730
oD	 0.4440	 0.2630
oE	 0.7590	 0.4430
p	 0.8680	 0.5220
pA	 0.8330	 0.5440
pB	 0.2220	 0.2920
pC	 0.6300	 0.4570
pD	 0.3330	 0.2780
pE	 0.7230	 0.4180
q	 0.8720	 0.5400
qA	 0.7890	 0.5110
qB	 0.3330	 0.3340
qC	 0.6300	 0.4800
qD	 0.4440	 0.3680
qE	 0.9470	 0.4750
r	 0.8890	 0.5240
rA	 0.8520	 0.5530
rB	 0.2220	 0.3440
rC	 0.2220	 0.2050
rD	 0.4440	 0.3570
rE	 0.6170	 0.3780
s	 0.8680	 0.5100
sA	 0.8220	 0.5170
sB	 0.5180	 0.4020
sC	 0.2960	 0.1860
sD	 0.3560	 0.2430
sE	 0.7630	 0.4880
t	 0.8890	 0.5320
tA	 0.8060	 0.5160
tB	 0.4810	 0.3170
tC	 0.5180	 0.3590
tD	 0.2630	 0.1910
tE	 0.8300	 0.4560

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Chain	Atom inclusion	Q-score
u	 0.8000	 0.4770
uA	 0.8150	 0.5290
uB	 0.5180	 0.3210
uC	 0.2960	 0.4020
uD	 0.1380	 0.3240
uE	 0.8420	 0.4630
v	 0.8060	 0.5020
vA	 0.8150	 0.5300
vB	 0.4810	 0.3010
vC	 0.4220	 0.3310
vD	 0.3160	 0.3560
vE	 0.8300	 0.5180
w	 0.7780	 0.4950
wA	 0.8520	 0.5070
wB	 0.7040	 0.4330
wC	 0.3420	 0.1360
wD	 0.3420	 0.3580
wE	 0.8210	 0.4240
x	 0.7040	 0.4250
xA	 0.8520	 0.5250
xB	 0.8520	 0.5470
xC	 0.1380	 0.2600
xD	 0.1030	 0.2690
xE	 0.7630	 0.4430
y	 0.8520	 0.5030
yA	 0.8520	 0.5570
yB	 0.7110	 0.4230
yC	 0.3420	 0.2610
yD	 0.0000	 0.2070
yE	 0.7660	 0.4270
z	 0.7780	 0.4980
zA	 0.8890	 0.5340
zB	 0.6320	 0.3580
zC	 0.1050	 0.2530
zD	 0.0000	 0.1780
zE	 0.6810	 0.4300