

Supporting Information

DFT/NMR Approach for the Configuration Assignment of Groups of Stereoisomers by the Combination and Comparison of Experimental and Predicted Sets of Data

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Table S1. ^{13}C experimental related to exp_1a set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$			$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1a	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	169.9	163.65	163.79	163.82	163.62	6.25	6.11	6.08	6.29
3	76.3	72.81	73.56	73.37	72.48	3.49	2.74	2.93	3.82
4	33.6	34.93	33.52	33.73	35.02	1.33	0.08	0.13	1.42
4a	141.8	143.10	143.24	143.31	143.05	1.30	1.44	1.51	1.25
5	106.7	105.75	105.80	105.76	105.75	0.95	0.90	0.94	0.95
6	163.1	160.89	160.91	160.89	160.92	2.21	2.19	2.21	2.18
7	102.0	101.15	101.10	101.10	101.15	0.85	0.90	0.90	0.85
8	164.3	165.73	165.74	165.75	165.76	1.43	1.44	1.45	1.46
8a	101.5	104.34	104.27	104.25	104.32	2.84	2.77	2.75	2.82
9	39.3	40.76	38.21	40.74	42.54	1.46	1.09	1.44	3.24
10	66.6	64.23	65.24	71.87	71.21	2.37	1.36	5.27	4.61
11	30.9	31.53	30.46	30.94	31.66	0.63	0.44	0.04	0.76
12	18.1	20.24	20.19	24.80	24.74	2.14	2.09	6.70	6.64
13	30.9	30.21	30.54	32.33	32.55	0.69	0.36	1.43	1.65
14	68.0	66.65	66.18	71.98	71.73	1.35	1.82	3.98	3.73
15	18.9	18.45	19.27	22.82	22.76	0.45	0.37	3.92	3.86
MAE ^b						1.86	1.63	2.61	2.85

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \sum[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S2. ^{13}C experimental related to exp_1b set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1b	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	170.0	163.65	163.79	163.82	163.62	6.35	6.21	6.18	6.38	
3	76.6	72.81	73.56	73.37	72.48	3.79	3.04	3.23	4.12	
4	32.6	34.93	33.52	33.73	35.02	2.33	0.92	1.13	2.42	
4a	141.6	143.10	143.24	143.31	143.05	1.50	1.64	1.71	1.45	
5	106.7	105.75	105.80	105.76	105.75	0.95	0.90	0.94	0.95	
6	163.0	160.89	160.91	160.89	160.92	2.11	2.09	2.11	2.08	
7	102.0	101.15	101.10	101.10	101.15	0.85	0.90	0.90	0.85	
8	164.4	165.73	165.74	165.75	165.76	1.33	1.34	1.35	1.36	
8a	101.6	104.34	104.27	104.25	104.32	2.74	2.67	2.65	2.72	
9	37.3	40.76	38.21	40.74	42.54	3.46	0.91	3.44	5.24	
10	67.2	64.23	65.24	71.87	71.21	2.97	1.96	4.67	4.01	
11	29.8	31.53	30.46	30.94	31.66	1.73	0.66	1.14	1.86	
12	18.1	20.24	20.19	24.80	24.74	2.14	2.09	6.70	6.64	
13	31.5	30.21	30.54	32.33	32.55	1.29	0.96	0.83	1.05	
14	67.4	66.65	66.18	71.98	71.73	0.75	1.22	4.58	4.33	
15	19.7	18.45	19.27	22.82	22.76	1.25	0.43	3.12	3.06	
MAE ^b						2.22	1.75	2.79	3.03	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \sum[|\delta_{\text{exp}} - \delta_{\text{calcd}}|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S3. ¹³C experimental related to exp_1c set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with ^a|\Delta\delta|(¹³C) and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp² carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp³ carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_1c	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	171.7	163.65	163.79	163.82	163.62	8.05	7.91	7.88	8.08	
3	78.0	72.81	73.56	73.37	72.48	5.19	4.44	4.63	5.52	
4	34.5	34.93	33.52	33.73	35.02	0.43	0.98	0.77	0.52	
4a	143.6	143.10	143.24	143.31	143.05	0.50	0.36	0.29	0.55	
5	108.1	105.75	105.80	105.76	105.75	2.35	2.30	2.34	2.35	
6	165.8	160.89	160.91	160.89	160.92	4.91	4.89	4.91	4.88	
7	102.3	101.15	101.10	101.10	101.15	1.15	1.20	1.20	1.15	
8	166.4	165.73	165.74	165.75	165.76	0.67	0.66	0.65	0.64	
8a	101.8	104.34	104.27	104.25	104.32	2.54	2.47	2.45	2.52	
9	42.2	40.76	38.21	40.74	42.54	1.44	3.99	1.46	0.34	
10	75.2	64.23	65.24	71.87	71.21	10.97	9.96	3.33	3.99	
11	32.5	31.53	30.46	30.94	31.66	0.97	2.04	1.56	0.84	
12	22.6	20.24	20.19	24.80	24.74	2.36	2.41	2.20	2.14	
13	33.8	30.21	30.54	32.33	32.55	3.59	3.26	1.47	1.25	
14	75.5	66.65	66.18	71.98	71.73	8.85	9.32	3.52	3.77	
15	24.7	18.45	19.27	22.82	22.76	6.25	5.43	1.88	1.94	
MAE ^b						3.76	3.85	2.53	2.53	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}| (^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ¹³C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ¹³C chemical shifts), normalized to the number of the chemical shifts

Table S4. ^{13}C experimental related to exp_1d set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1d		calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	171.7		163.65	163.79	163.82	163.62	8.05	7.91	7.88	8.08
3	77.6		72.81	73.56	73.37	72.48	4.79	4.04	4.23	5.12
4	34.6		34.93	33.52	33.73	35.02	0.33	1.08	0.87	0.42
4a	143.7		143.10	143.24	143.31	143.05	0.60	0.46	0.39	0.65
5	108.0		105.75	105.80	105.76	105.75	2.25	2.20	2.24	2.25
6	165.8		160.89	160.91	160.89	160.92	4.91	4.89	4.91	4.88
7	102.3		101.15	101.10	101.10	101.15	1.15	1.20	1.20	1.15
8	166.4		165.73	165.74	165.75	165.76	0.67	0.66	0.65	0.64
8a	101.7		104.34	104.27	104.25	104.32	2.64	2.57	2.55	2.62
9	43.0		40.76	38.21	40.74	42.54	2.24	4.79	2.26	0.46
10	74.8		64.23	65.24	71.87	71.21	10.57	9.56	2.93	3.59
11	33.1		31.53	30.46	30.94	31.66	1.57	2.64	2.16	1.44
12	22.5		20.24	20.19	24.80	24.74	2.26	2.31	2.30	2.24
13	34.5		30.21	30.54	32.33	32.55	4.29	3.96	2.17	1.95
14	75.3		66.65	66.18	71.98	71.73	8.65	9.12	3.32	3.57
15	24.8		18.45	19.27	22.82	22.76	6.35	5.53	1.98	2.04
MAE ^b							3.83	3.93	2.63	2.57

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S5. ^{13}C experimental related to exp_1a set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$			$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1a	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	169.9	174.92	174.85	174.99	174.84	5.02	4.95	5.09	4.94
3	76.3	76.11	77.30	77.23	75.96	0.19	1.00	0.93	0.34
4	33.6	37.32	35.68	35.96	37.41	3.72	2.08	2.36	3.81
4a	141.8	143.90	144.02	144.05	143.74	2.10	2.22	2.25	1.94
5	106.7	104.22	103.73	103.70	104.59	2.48	2.97	3.00	2.11
6	163.1	163.20	163.66	163.57	163.48	0.10	0.56	0.47	0.38
7	102.0	98.44	98.67	98.64	98.83	3.56	3.33	3.36	3.17
8	164.3	167.21	167.47	167.47	167.13	2.91	3.17	3.17	2.83
8a	101.5	100.45	100.42	100.43	100.19	1.05	1.08	1.07	1.31
9	39.3	43.97	40.97	43.72	45.32	4.67	1.67	4.42	6.02
10	66.6	66.34	68.35	75.57	74.23	0.26	1.75	8.97	7.63
11	30.9	34.67	33.04	33.68	34.59	3.77	2.14	2.78	3.69
12	18.1	22.22	22.10	27.49	27.31	4.12	4.00	9.39	9.21
13	30.9	33.13	33.71	35.67	35.97	2.23	2.81	4.77	5.07
14	68.0	70.78	70.14	76.32	75.88	2.78	2.14	8.32	7.88
15	18.9	18.69	20.13	23.93	23.97	0.21	1.23	5.03	5.07
MAE ^b						2.45	2.32	4.09	4.09

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \sum[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S6. ^{13}C experimental related to exp_1b set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with ^a $|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_1b	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	170.0	174.92	174.85	174.99	174.84	4.92	4.85	4.99	4.84	
3	76.6	76.11	77.30	77.23	75.96	0.49	0.70	0.63	0.64	
4	32.6	37.32	35.68	35.96	37.41	4.72	3.08	3.36	4.81	
4a	141.6	143.90	144.02	144.05	143.74	2.30	2.42	2.45	2.14	
5	106.7	104.22	103.73	103.70	104.59	2.48	2.97	3.00	2.11	
6	163.0	163.20	163.66	163.57	163.48	0.20	0.66	0.57	0.48	
7	102.0	98.44	98.67	98.64	98.83	3.56	3.33	3.36	3.17	
8	164.4	167.21	167.47	167.47	167.13	2.81	3.07	3.07	2.73	
8a	101.6	100.45	100.42	100.43	100.19	1.15	1.18	1.17	1.41	
9	37.3	43.97	40.97	43.72	45.32	6.67	3.67	6.42	8.02	
10	67.2	66.34	68.35	75.57	74.23	0.86	1.15	8.37	7.03	
11	29.8	34.67	33.04	33.68	34.59	4.87	3.24	3.88	4.79	
12	18.1	22.22	22.10	27.49	27.31	4.12	4.00	9.39	9.21	
13	31.5	33.13	33.71	35.67	35.97	1.63	2.21	4.17	4.47	
14	67.4	70.78	70.14	76.32	75.88	3.38	2.74	8.92	8.48	
15	19.7	18.69	20.13	23.93	23.97	1.01	0.43	4.23	4.27	
MAE ^b						2.82	2.48	4.25	4.29	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \sum[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S7. ^{13}C experimental related to exp_1c set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1c	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	171.7	174.92	174.85	174.99	174.84	3.22	3.15	3.29	3.14	
3	78.0	76.11	77.30	77.23	75.96	1.89	0.70	0.77	2.04	
4	34.5	37.32	35.68	35.96	37.41	2.82	1.18	1.46	2.91	
4a	143.6	143.90	144.02	144.05	143.74	0.30	0.42	0.45	0.14	
5	108.1	104.22	103.73	103.70	104.59	3.88	4.37	4.40	3.51	
6	165.8	163.20	163.66	163.57	163.48	2.60	2.14	2.23	2.32	
7	102.3	98.44	98.67	98.64	98.83	3.86	3.63	3.66	3.47	
8	166.4	167.21	167.47	167.47	167.13	0.81	1.07	1.07	0.73	
8a	101.8	100.45	100.42	100.43	100.19	1.35	1.38	1.37	1.61	
9	42.2	43.97	40.97	43.72	45.32	1.77	1.23	1.52	3.12	
10	75.2	66.34	68.35	75.57	74.23	8.86	6.85	0.37	0.97	
11	32.5	34.67	33.04	33.68	34.59	2.17	0.54	1.18	2.09	
12	22.6	22.22	22.10	27.49	27.31	0.38	0.50	4.89	4.71	
13	33.8	33.13	33.71	35.67	35.97	0.67	0.09	1.87	2.17	
14	75.5	70.78	70.14	76.32	75.88	4.72	5.36	0.82	0.38	
15	24.7	18.69	20.13	23.93	23.97	6.01	4.57	0.77	0.73	
MAE ^b						2.83	2.32	1.88	2.13	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|\delta_{\text{exp}} - \delta_{\text{calcd}}|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S8. ^{13}C experimental related to exp_1d set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1d	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	171.7	174.92	174.85	174.99	174.84	3.22	3.15	3.29	3.14	
3	77.6	76.11	77.30	77.23	75.96	1.49	0.30	0.37	1.64	
4	34.6	37.32	35.68	35.96	37.41	2.72	1.08	1.36	2.81	
4a	143.7	143.90	144.02	144.05	143.74	0.20	0.32	0.35	0.04	
5	108.0	104.22	103.73	103.70	104.59	3.78	4.27	4.30	3.41	
6	165.8	163.20	163.66	163.57	163.48	2.60	2.14	2.23	2.32	
7	102.3	98.44	98.67	98.64	98.83	3.86	3.63	3.66	3.47	
8	166.4	167.21	167.47	167.47	167.13	0.81	1.07	1.07	0.73	
8a	101.7	100.45	100.42	100.43	100.19	1.25	1.28	1.27	1.51	
9	43.0	43.97	40.97	43.72	45.32	0.97	2.03	0.72	2.32	
10	74.8	66.34	68.35	75.57	74.23	8.46	6.45	0.77	0.57	
11	33.1	34.67	33.04	33.68	34.59	1.57	0.06	0.58	1.49	
12	22.5	22.22	22.10	27.49	27.31	0.28	0.40	4.99	4.81	
13	34.5	33.13	33.71	35.67	35.97	1.37	0.79	1.17	1.47	
14	75.3	70.78	70.14	76.32	75.88	4.52	5.16	1.02	0.58	
15	24.8	18.69	20.13	23.93	23.97	6.11	4.67	0.87	0.83	
MAE ^b						2.70	2.30	1.75	1.95	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S9. ^{13}C experimental related to exp_1a set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with ^a $|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_1a	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	
1	169.9	163.65	163.79	163.82	163.62	6.25	6.11	6.08	6.29	
3	76.3	72.81	73.56	73.37	72.48	3.49	2.74	2.93	3.82	
4	33.6	34.93	33.52	33.73	35.02	1.33	0.08	0.13	1.42	
4a	141.8	145.27	145.07	145.11	145.30	3.47	3.27	3.31	3.50	
5	106.7	104.00	104.01	104.00	104.01	2.70	2.69	2.70	2.69	
6	163.1	164.20	164.19	164.17	164.08	1.10	1.09	1.07	0.98	
7	102.0	98.85	98.84	98.80	98.83	3.15	3.16	3.20	3.17	
8	164.3	168.76	168.71	168.70	168.71	4.46	4.41	4.40	4.41	
8a	101.5	101.38	101.20	101.15	101.45	0.12	0.30	0.35	0.05	
9	39.3	40.76	38.21	40.74	42.54	1.46	1.09	1.44	3.24	
10	66.6	64.23	65.24	71.87	71.21	2.37	1.36	5.27	4.61	
11	30.9	31.53	30.46	30.94	31.66	0.63	0.44	0.04	0.76	
12	18.1	20.24	20.19	24.80	24.74	2.14	2.09	6.70	6.64	
13	30.9	30.21	30.54	32.33	32.55	0.69	0.36	1.43	1.65	
14	68.0	66.65	66.18	71.98	71.73	1.35	1.82	3.98	3.73	
15	18.9	18.45	19.27	22.82	22.76	0.45	0.37	3.92	3.86	
MAE ^b						2.20	1.96	2.93	3.18	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S10. ^{13}C experimental related to exp_1b set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1b		calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	170.0		163.65	163.79	163.82	163.62	6.35	6.21	6.18	6.38
3	76.6		72.81	73.56	73.37	72.48	3.79	3.04	3.23	4.12
4	32.6		34.93	33.52	33.73	35.02	2.33	0.92	1.13	2.42
4a	141.6		145.27	145.07	145.11	145.30	3.67	3.47	3.51	3.70
5	106.7		104.00	104.01	104.00	104.01	2.70	2.69	2.70	2.69
6	163.0		164.20	164.19	164.17	164.08	1.20	1.19	1.17	1.08
7	102.0		98.85	98.84	98.80	98.83	3.15	3.16	3.20	3.17
8	164.4		168.76	168.71	168.70	168.71	4.36	4.31	4.30	4.31
8a	101.6		101.38	101.20	101.15	101.45	0.22	0.40	0.45	0.15
9	37.3		40.76	38.21	40.74	42.54	3.46	0.91	3.44	5.24
10	67.2		64.23	65.24	71.87	71.21	2.97	1.96	4.67	4.01
11	29.8		31.53	30.46	30.94	31.66	1.73	0.66	1.14	1.86
12	18.1		20.24	20.19	24.80	24.74	2.14	2.09	6.70	6.64
13	31.5		30.21	30.54	32.33	32.55	1.29	0.96	0.83	1.05
14	67.4		66.65	66.18	71.98	71.73	0.75	1.22	4.58	4.33
15	19.7		18.45	19.27	22.82	22.76	1.25	0.43	3.12	3.06
MAE ^b							2.58	2.10	3.15	3.39

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S11. ^{13}C experimental related to exp_1c set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1c	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	171.7	163.65	163.79	163.82	163.62	8.05	7.91	7.88	8.08				
3	78.0	72.81	73.56	73.37	72.48	5.19	4.44	4.63	5.52				
4	34.5	34.93	33.52	33.73	35.02	0.43	0.98	0.77	0.52				
4a	143.6	145.27	145.07	145.11	145.30	1.67	1.47	1.51	1.70				
5	108.1	104.00	104.01	104.00	104.01	4.10	4.09	4.10	4.09				
6	165.8	164.20	164.19	164.17	164.08	1.60	1.61	1.63	1.72				
7	102.3	98.85	98.84	98.80	98.83	3.45	3.46	3.50	3.47				
8	166.4	168.76	168.71	168.70	168.71	2.36	2.31	2.30	2.31				
8a	101.8	101.38	101.20	101.15	101.45	0.42	0.60	0.65	0.35				
9	42.2	40.76	38.21	40.74	42.54	1.44	3.99	1.46	0.34				
10	75.2	64.23	65.24	71.87	71.21	10.97	9.96	3.33	3.99				
11	32.5	31.53	30.46	30.94	31.66	0.97	2.04	1.56	0.84				
12	22.6	20.24	20.19	24.80	24.74	2.36	2.41	2.20	2.14				
13	33.8	30.21	30.54	32.33	32.55	3.59	3.26	1.47	1.25				
14	75.5	66.65	66.18	71.98	71.73	8.85	9.32	3.52	3.77				
15	24.7	18.45	19.27	22.82	22.76	6.25	5.43	1.88	1.94				
MAE ^b						3.86	3.96	2.65	2.63				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \sum[|\delta_{\text{exp}} - \delta_{\text{calc}}|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S12. ^{13}C experimental related to exp_1d set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_1a, calc_1b, calc_1c, calc_1d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values. Chemical shift data here reported were produced using benzene as reference compound for sp^2 carbons (highlighted in yellow), and tetramethylsilane (TMS) for sp^3 carbons.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_1d	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d	calc_1a	calc_1b	calc_1c	calc_1d
1	171.7	163.65	163.79	163.82	163.62	8.05	7.91	7.88	8.08				
3	77.6	72.81	73.56	73.37	72.48	4.79	4.04	4.23	5.12				
4	34.6	34.93	33.52	33.73	35.02	0.33	1.08	0.87	0.42				
4a	143.7	145.27	145.07	145.11	145.30	1.57	1.37	1.41	1.60				
5	108.0	104.00	104.01	104.00	104.01	4.00	3.99	4.00	3.99				
6	165.8	164.20	164.19	164.17	164.08	1.60	1.61	1.63	1.72				
7	102.3	98.85	98.84	98.80	98.83	3.45	3.46	3.50	3.47				
8	166.4	168.76	168.71	168.70	168.71	2.36	2.31	2.30	2.31				
8a	101.7	101.38	101.20	101.15	101.45	0.32	0.50	0.55	0.25				
9	43.0	40.76	38.21	40.74	42.54	2.24	4.79	2.26	0.46				
10	74.8	64.23	65.24	71.87	71.21	10.57	9.56	2.93	3.59				
11	33.1	31.53	30.46	30.94	31.66	1.57	2.64	2.16	1.44				
12	22.5	20.24	20.19	24.80	24.74	2.26	2.31	2.30	2.24				
13	34.5	30.21	30.54	32.33	32.55	4.29	3.96	2.17	1.95				
14	75.3	66.65	66.18	71.98	71.73	8.65	9.12	3.32	3.57				
15	24.8	18.45	19.27	22.82	22.76	6.35	5.53	1.98	2.04				
MAE ^b						3.90	4.01	2.72	2.64				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}| (^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S13. Comparison of the results obtained by computing the MAE_{ΔΔδ} values (bottom) and the AVER_MAE values (top), the latter defined as the average of the four possible MAE values obtained from the comparison of the calculated and experimental chemical shifts, for each of the 24 comparison alignments. The comparison of the predicting power between the two approaches has been evaluated considering the “% error from the best value” parameter, defined as (e.g. for the AVER_MAE data): $((\text{AVER_MAE}/\text{AVER_MAE}_{\text{best value}})-1)\times 100$.

MPW1PW91/6-31g(d,p)			MPW1PW91/6-311+g(d,p)			B97-2/cc-pVTZ		
comparison alignment ^a	AVER_MAE	% error from best AVER_MAE value	comparison alignment ^a	AVER_MAE	% error from best AVER_MAE value	comparison alignment ^a	AVER_MAE	% error from best AVER_MAE value
exp_1a exp_1b exp_1c exp_1d	2.177	0.000	exp_1a exp_1b exp_1c exp_1d	2.190	0.000	exp_1a exp_1b exp_1c exp_1d	2.397	0.000
exp_1a exp_1b exp_1d exp_1c	2.191	0.643	exp_1a exp_1b exp_1d exp_1c	2.202	0.548	exp_1a exp_1b exp_1d exp_1c	2.411	0.584
exp_1b exp_1a exp_1c exp_1d	2.239	2.848	exp_1b exp_1a exp_1c exp_1d	2.243	2.420	exp_1b exp_1a exp_1c exp_1d	2.459	2.587
exp_1b exp_1a exp_1d exp_1c	2.253	3.491	exp_1b exp_1a exp_1d exp_1c	2.255	2.968	exp_1b exp_1a exp_1d exp_1c	2.473	3.171
exp_1c exp_1b exp_1a exp_1d	2.671	22.692	exp_1a exp_1c exp_1d exp_1b	2.703	23.425	exp_1c exp_1b exp_1a exp_1d	2.883	20.275
exp_1d exp_1b exp_1a exp_1c	2.678	23.013	exp_1a exp_1d exp_1c exp_1b	2.730	24.658	exp_1d exp_1b exp_1a exp_1c	2.891	20.609
exp_1c exp_1a exp_1b exp_1d	2.689	23.519	exp_1a exp_1c exp_1b exp_1d	2.742	25.205	exp_1c exp_1a exp_1b exp_1d	2.901	21.026
exp_1d exp_1a exp_1b exp_1c	2.697	23.886	exp_1b exp_1c exp_1d exp_1a	2.746	25.388	exp_1d exp_1a exp_1b exp_1c	2.909	21.360
exp_1d exp_1b exp_1c exp_1a	2.739	25.815	exp_1b exp_1d exp_1c exp_1a	2.773	26.621	exp_1d exp_1b exp_1c exp_1a	2.957	23.363
exp_1c exp_1b exp_1d exp_1a	2.746	26.137	exp_1a exp_1d exp_1b exp_1c	2.781	26.986	exp_1c exp_1b exp_1d exp_1a	2.963	23.613
exp_1d exp_1a exp_1c exp_1b	2.758	26.688	exp_1c exp_1b exp_1d exp_1a	2.788	27.306	exp_1d exp_1a exp_1c exp_1b	2.975	24.113
exp_1c exp_1a exp_1d exp_1b	2.764	26.964	exp_1d exp_1b exp_1c exp_1a	2.788	27.306	exp_1c exp_1a exp_1d exp_1b	2.981	24.364
exp_1a exp_1c exp_1b exp_1d	2.768	27.147	exp_1b exp_1c exp_1a exp_1d	2.795	27.626	exp_1a exp_1c exp_1b exp_1d	2.985	24.531
exp_1a exp_1d exp_1b exp_1c	2.778	27.607	exp_1c exp_1a exp_1d exp_1b	2.797	27.717	exp_1a exp_1d exp_1b exp_1c	2.996	24.990
exp_1b exp_1c exp_1a exp_1d	2.812	29.169	exp_1d exp_1a exp_1c exp_1b	2.797	27.717	exp_1b exp_1c exp_1a exp_1d	3.029	26.366
exp_1b exp_1d exp_1a exp_1c	2.822	29.628	exp_1b exp_1d exp_1a exp_1c	2.834	29.406	exp_1b exp_1d exp_1a exp_1c	3.039	26.783
exp_1a exp_1d exp_1c exp_1b	2.839	30.409	exp_1c exp_1a exp_1b exp_1d	2.836	29.498	exp_1a exp_1d exp_1c exp_1b	3.062	27.743
exp_1a exp_1c exp_1d exp_1b	2.843	30.593	exp_1c exp_1b exp_1a exp_1d	2.836	29.498	exp_1a exp_1c exp_1d exp_1b	3.065	27.868
exp_1b exp_1d exp_1c exp_1a	2.883	32.430	exp_1d exp_1a exp_1b exp_1c	2.849	30.091	exp_1b exp_1d exp_1c exp_1a	3.105	29.537
exp_1b exp_1c exp_1d exp_1a	2.886	32.568	exp_1d exp_1b exp_1a exp_1c	2.849	30.091	exp_1b exp_1c exp_1d exp_1a	3.108	29.662
exp_1d exp_1c exp_1a exp_1b	3.330	52.963	exp_1d exp_1c exp_1b exp_1a	3.340	52.511	exp_1d exp_1c exp_1a exp_1b	3.544	47.851
exp_1d exp_1c exp_1b exp_1a	3.330	52.963	exp_1d exp_1c exp_1a exp_1b	3.350	52.968	exp_1d exp_1c exp_1b exp_1a	3.544	47.851
exp_1c exp_1d exp_1a exp_1b	3.333	53.101	exp_1c exp_1d exp_1b exp_1a	3.367	53.744	exp_1c exp_1d exp_1a exp_1b	3.548	48.018
exp_1c exp_1d exp_1b exp_1a	3.333	53.101	exp_1c exp_1d exp_1a exp_1b	3.376	54.155	exp_1c exp_1d exp_1b exp_1a	3.548	48.018

MPW1PW91/6-31g(d,p)			MPW1PW91/6-311+g(d,p)			B97-2/cc-pVTZ		
comparison alignment ^a	MAE _{ΔΔε}	% error from best MAE _{ΔΔε} value	comparison alignment ^a	MAE _{ΔΔε}	% error from best MAE _{ΔΔε} value	comparison alignment ^a	MAE _{ΔΔε}	% error from best MAE _{ΔΔε} value
exp_1a exp_1b exp_1c exp_1d	1.066	0.000	exp_1a exp_1b exp_1c exp_1d	1.089	0.000	exp_1a exp_1b exp_1c exp_1d	1.070	0.000
exp_1a exp_1b exp_1d exp_1c	1.120	5.066	exp_1a exp_1b exp_1d exp_1c	1.157	6.244	exp_1a exp_1b exp_1d exp_1c	1.124	5.047
exp_1b exp_1a exp_1c exp_1d	1.224	14.822	exp_1b exp_1a exp_1c exp_1d	1.291	18.549	exp_1b exp_1a exp_1c exp_1d	1.232	15.140
exp_1b exp_1a exp_1d exp_1c	1.298	21.764	exp_1b exp_1a exp_1d exp_1c	1.380	26.722	exp_1b exp_1a exp_1d exp_1c	1.308	22.243
exp_1c exp_1b exp_1a exp_1d	2.487	133.302	exp_1c exp_1b exp_1a exp_1d	2.617	140.312	exp_1c exp_1b exp_1a exp_1d	2.471	130.935
exp_1d exp_1b exp_1a exp_1c	2.515	135.929	exp_1d exp_1b exp_1a exp_1c	2.635	141.965	exp_1d exp_1b exp_1a exp_1c	2.496	133.271
exp_1c exp_1a exp_1b exp_1d	2.541	138.368	exp_1c exp_1a exp_1b exp_1d	2.674	145.546	exp_1c exp_1a exp_1b exp_1d	2.525	135.981
exp_1d exp_1b exp_1c exp_1a	2.581	142.120	exp_1d exp_1b exp_1c exp_1a	2.702	148.118	exp_1d exp_1a exp_1b exp_1c	2.568	140.000
exp_1d exp_1a exp_1b exp_1c	2.585	142.495	exp_1a exp_1c exp_1b exp_1d	2.706	148.485	exp_1d exp_1b exp_1c exp_1a	2.582	141.308
exp_1c exp_1b exp_1d exp_1a	2.601	143.996	exp_1d exp_1a exp_1b exp_1c	2.706	148.485	exp_1c exp_1b exp_1d exp_1a	2.603	143.271
exp_1a exp_1c exp_1b exp_1d	2.609	144.747	exp_1c exp_1b exp_1d exp_1a	2.725	150.230	exp_1a exp_1c exp_1b exp_1d	2.613	144.206
exp_1a exp_1d exp_1b exp_1c	2.647	148.311	exp_1a exp_1d exp_1b exp_1c	2.743	151.882	exp_1a exp_1d exp_1b exp_1c	2.650	147.664
exp_1d exp_1a exp_1c exp_1b	2.649	148.499	exp_1a exp_1c exp_1d exp_1b	2.746	152.158	exp_1d exp_1a exp_1c exp_1b	2.653	147.944
exp_1b exp_1c exp_1d exp_1a	2.656	149.156	exp_1b exp_1c exp_1d exp_1a	2.749	152.433	exp_1c exp_1a exp_1d exp_1b	2.678	150.280
exp_1c exp_1a exp_1d exp_1b	2.671	150.563	exp_1a exp_1d exp_1c exp_1b	2.773	154.637	exp_1b exp_1c exp_1d exp_1a	2.681	150.561
exp_1a exp_1c exp_1d exp_1b	2.674	150.844	exp_1d exp_1a exp_1c exp_1b	2.778	155.096	exp_1b exp_1c exp_1a exp_1d	2.688	151.215
exp_1b exp_1c exp_1a exp_1d	2.681	151.501	exp_1b exp_1d exp_1c exp_1a	2.784	155.647	exp_1a exp_1c exp_1d exp_1b	2.698	152.150
exp_1b exp_1d exp_1c exp_1a	2.691	152.439	exp_1b exp_1c exp_1a exp_1d	2.805	157.576	exp_1b exp_1d exp_1c exp_1a	2.715	153.738
exp_1a exp_1d exp_1c exp_1b	2.711	154.315	exp_1c exp_1a exp_1d exp_1b	2.812	158.219	exp_1b exp_1d exp_1a exp_1c	2.729	155.047
exp_1b exp_1d exp_1a exp_1c	2.721	155.253	exp_1b exp_1d exp_1a exp_1c	2.856	162.259	exp_1a exp_1d exp_1c exp_1b	2.734	155.514
exp_1d exp_1c exp_1b exp_1a	3.205	200.657	exp_1d exp_1c exp_1b exp_1a	3.410	213.131	exp_1d exp_1c exp_1b exp_1a	3.203	199.346
exp_1c exp_1d exp_1b exp_1a	3.236	203.565	exp_1c exp_1d exp_1b exp_1a	3.433	215.243	exp_1c exp_1d exp_1b exp_1a	3.235	202.336
exp_1d exp_1c exp_1a exp_1b	3.289	208.537	exp_1d exp_1c exp_1a exp_1b	3.496	221.028	exp_1d exp_1c exp_1a exp_1b	3.290	207.477
exp_1c exp_1d exp_1a exp_1b	3.324	211.820	exp_1c exp_1d exp_1a exp_1b	3.528	223.967	exp_1c exp_1d exp_1a exp_1b	3.328	211.028

^aconsidering calc_1a calc_1b calc_1c and calc_1d starting fixed sequence related to the calculated sets of data

Table S14. ¹³C experimental related to exp_2a set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with ^a|\Delta\delta|(¹³C) and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_2a	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	69.2	73.07	70.28	71.09	75.87	3.87	1.08	1.89	6.67				
2	40	33.70	41.02	43.23	41.97	6.30	1.02	3.23	1.97				
3	62.8	62.50	65.76	58.40	61.16	0.30	2.96	4.40	1.64				
5	60.9	63.02	71.07	62.53	67.53	2.12	10.17	1.63	6.63				
6	78.4	74.87	76.99	81.77	72.30	3.53	1.41	3.37	6.10				
7	71.8	68.76	71.10	70.07	71.28	3.04	0.70	1.73	0.52				
7a	75.6	74.03	75.46	68.45	66.39	1.57	0.14	7.15	9.21				
8	62.4	60.06	64.71	62.69	65.55	2.34	2.31	0.29	3.15				
9	42.8	44.23	45.18	46.38	39.33	1.43	2.38	3.58	3.47				
11	173.9	163.51	164.23	165.97	164.45	10.39	9.67	7.93	9.45				
12	22.6	23.07	23.00	23.35	22.78	0.47	0.40	0.75	0.18				
MAE ^b						3.21	2.93	3.27	4.45				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}| (^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ¹³C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calc}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ¹³C chemical shifts), normalized to the number of the chemical shifts

Table S15. ^{13}C experimental related to exp_2b set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with ^a $|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_2b	calc_2a	calc_2b	calc_1c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	
1	70.7	73.07	70.28	71.09	75.87	2.37	0.42	0.39	5.17	
2	39	33.70	41.02	43.23	41.97	5.30	2.02	4.23	2.97	
3	69.7	62.50	65.76	58.40	61.16	7.20	3.94	11.30	8.54	
5	71.4	63.02	71.07	62.53	67.53	8.38	0.33	8.87	3.87	
6	76.9	74.87	76.99	81.77	72.30	2.03	0.09	4.87	4.60	
7	72.4	68.76	71.10	70.07	71.28	3.64	1.30	2.33	1.12	
7a	76.5	74.03	75.46	68.45	66.39	2.47	1.04	8.05	10.11	
8	65.9	60.06	64.71	62.69	65.55	5.84	1.19	3.21	0.35	
9	42.3	44.23	45.18	46.38	39.33	1.93	2.88	4.08	2.97	
11	173.9	163.51	164.23	165.97	164.45	10.39	9.67	7.93	9.45	
12	22.6	23.07	23.00	23.35	22.78	0.47	0.40	0.75	0.18	
MAE ^b						4.55	2.12	5.09	4.48	

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S16. ^{13}C experimental related to exp_2c set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2c	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	73.7	73.07	70.28	71.09	75.87	0.63	3.42	2.61	2.17				
2	43.6	33.70	41.02	43.23	41.97	9.90	2.58	0.37	1.63				
3	61.6	62.50	65.76	58.40	61.16	0.90	4.16	3.20	0.44				
5	62.5	63.02	71.07	62.53	67.53	0.52	8.57	0.03	5.03				
6	78.7	74.87	76.99	81.77	72.30	3.83	1.71	3.07	6.40				
7	68.9	68.76	71.10	70.07	71.28	0.14	2.20	1.17	2.38				
7a	73.9	74.03	75.46	68.45	66.39	0.13	1.56	5.45	7.51				
8	63.3	60.06	64.71	62.69	65.55	3.24	1.41	0.61	2.25				
9	40.8	44.23	45.18	46.38	39.33	3.43	4.38	5.58	1.47				
11	173.7	163.51	164.23	165.97	164.45	10.19	9.47	7.73	9.25				
12	22.6	23.07	23.00	23.35	22.78	0.47	0.40	0.75	0.18				
MAE ^b						3.03	3.62	2.78	3.52				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S17. ^{13}C experimental related to exp_2d set of data and calculated NMR chemical shifts (MPW1PW91/6-31g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values..

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	76.6	73.07	70.28	71.09	75.87	3.53	6.32	5.51	0.73				
2	39.8	33.70	41.02	43.23	41.97	6.10	1.22	3.43	2.17				
3	66.2	62.50	65.76	58.40	61.16	3.70	0.44	7.80	5.04				
5	71.5	63.02	71.07	62.53	67.53	8.48	0.43	8.97	3.97				
6	74.1	74.87	76.99	81.77	72.30	0.77	2.89	7.67	1.80				
7	73.9	68.76	71.10	70.07	71.28	5.14	2.80	3.83	2.62				
7a	70.8	74.03	75.46	68.45	66.39	3.23	4.66	2.35	4.41				
8	68.7	60.06	64.71	62.69	65.55	8.64	3.99	6.01	3.15				
9	42.8	44.23	45.18	46.38	39.33	1.43	2.38	3.58	3.47				
11	173.7	163.51	164.23	165.97	164.45	10.19	9.47	7.73	9.25				
12	22.6	23.07	23.00	23.35	22.78	0.47	0.40	0.75	0.18				
MAE ^b						4.70	3.18	5.24	3.34				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}| (^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S18. ^{13}C experimental related to exp_2a set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2a	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	69.2	76.05	72.57	75.11	79.20	6.85	3.37	5.91	10.00				
2	40	35.23	42.70	45.60	42.85	4.77	2.70	5.60	2.85				
3	62.8	65.72	65.60	62.44	65.47	2.92	2.80	0.36	2.67				
5	60.9	66.48	71.60	66.56	71.66	5.58	10.70	5.66	10.76				
6	78.4	78.14	78.24	86.17	76.19	0.26	0.16	7.77	2.21				
7	71.8	71.51	72.59	74.34	75.86	0.29	0.79	2.54	4.06				
7a	75.6	80.71	76.59	73.28	70.73	5.11	0.99	2.32	4.87				
8	62.4	64.21	65.42	66.53	68.98	1.81	3.02	4.13	6.58				
9	42.8	44.91	42.35	48.05	41.42	2.11	0.45	5.25	1.38				
11	173.9	177.01	177.14	178.89	177.26	3.11	3.24	4.99	3.36				
12	22.6	24.52	24.20	25.08	24.29	1.92	1.60	2.48	1.69				
MAE ^b						3.16	2.71	4.27	4.59				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S19. ^{13}C experimental related to exp_2b set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2b	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	70.7	76.05	72.57	75.11	79.20	5.35	1.87	4.41	8.50				
2	39	35.23	42.70	45.60	42.85	3.77	3.70	6.60	3.85				
3	69.7	65.72	65.60	62.44	65.47	3.98	4.10	7.26	4.23				
5	71.4	66.48	71.60	66.56	71.66	4.92	0.20	4.84	0.26				
6	76.9	78.14	78.24	86.17	76.19	1.24	1.34	9.27	0.71				
7	72.4	71.51	72.59	74.34	75.86	0.89	0.19	1.94	3.46				
7a	76.5	80.71	76.59	73.28	70.73	4.21	0.09	3.22	5.77				
8	65.9	64.21	65.42	66.53	68.98	1.69	0.48	0.63	3.08				
9	42.3	44.91	42.35	48.05	41.42	2.61	0.05	5.75	0.88				
11	173.9	177.01	177.14	178.89	177.26	3.11	3.24	4.99	3.36				
12	22.6	24.52	24.20	25.08	24.29	1.92	1.60	2.48	1.69				
MAE ^b						3.06	1.53	4.67	3.25				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S20. ^{13}C experimental related to exp_2c set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2c	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	73.7	76.05	72.57	75.11	79.20	2.35	1.13	1.41	5.50				
2	43.6	35.23	42.70	45.60	42.85	8.37	0.90	2.00	0.75				
3	61.6	65.72	65.60	62.44	65.47	4.12	4.00	0.84	3.87				
5	62.5	66.48	71.60	66.56	71.66	3.98	9.10	4.06	9.16				
6	78.7	78.14	78.24	86.17	76.19	0.56	0.46	7.47	2.51				
7	68.9	71.51	72.59	74.34	75.86	2.61	3.69	5.44	6.96				
7a	73.9	80.71	76.59	73.28	70.73	6.81	2.69	0.62	3.17				
8	63.3	64.21	65.42	66.53	68.98	0.91	2.12	3.23	5.68				
9	40.8	44.91	42.35	48.05	41.42	4.11	1.55	7.25	0.62				
11	173.7	177.01	177.14	178.89	177.26	3.31	3.44	5.19	3.56				
12	22.6	24.52	24.20	25.08	24.29	1.92	1.60	2.48	1.69				
MAE ^b						3.55	2.79	3.64	3.95				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|\delta_{\text{exp}} - \delta_{\text{calcd}}|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S21. ^{13}C experimental related to exp_2d set of data and calculated NMR chemical shifts (MPW1PW91/6-311+g(d,p) level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	76.6	76.05	72.57	75.11	79.20	0.55	4.03	1.49	2.60				
2	39.8	35.23	42.70	45.60	42.85	4.57	2.90	5.80	3.05				
3	66.2	65.72	65.60	62.44	65.47	0.48	0.60	3.76	0.73				
5	71.5	66.48	71.60	66.56	71.66	5.02	0.10	4.94	0.16				
6	74.1	78.14	78.24	86.17	76.19	4.04	4.14	12.07	2.09				
7	73.9	71.51	72.59	74.34	75.86	2.39	1.31	0.44	1.96				
7a	70.8	80.71	76.59	73.28	70.73	9.91	5.79	2.48	0.07				
8	68.7	64.21	65.42	66.53	68.98	4.49	3.28	2.17	0.28				
9	42.8	44.91	42.35	48.05	41.42	2.11	0.45	5.25	1.38				
11	173.7	177.01	177.14	178.89	177.26	3.31	3.44	5.19	3.56				
12	22.6	24.52	24.20	25.08	24.29	1.92	1.60	2.48	1.69				
MAE ^b						3.53	2.51	4.19	1.60				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}| (^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S22. ^{13}C experimental related to exp_2a set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$			$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2a	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	69.2	77.10	73.18	75.81	78.99	7.90	3.98	6.61	9.79
2	40	35.66	43.07	45.53	41.93	4.34	3.07	5.53	1.93
3	62.8	66.73	67.70	62.97	67.15	3.93	4.90	0.17	4.35
5	60.9	67.55	72.90	67.07	72.76	6.65	12.00	6.17	11.86
6	78.4	79.39	80.47	86.37	78.04	0.99	2.07	7.97	0.37
7	71.8	72.86	73.56	75.09	76.47	1.06	1.76	3.29	4.67
7a	75.6	78.75	77.54	73.28	71.30	3.15	1.94	2.32	4.30
8	62.4	64.06	65.84	67.08	69.30	1.66	3.44	4.68	6.90
9	42.8	46.80	44.15	48.68	42.94	4.00	1.35	5.88	0.14
11	173.9	173.34	174.13	175.50	174.14	0.56	0.23	1.60	0.24
12	22.6	24.09	23.94	24.38	23.86	1.49	1.34	1.78	1.26
MAE ^b						3.25	3.28	4.18	4.16

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S23. ^{13}C experimental related to exp_2b set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with ^a $|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$		$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$			$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_2b	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	70.7	77.10	73.18	75.81	78.99	6.40	2.48	5.11	8.29
2	39	35.66	43.07	45.53	41.93	3.34	4.07	6.53	2.93
3	69.7	66.73	67.70	62.97	67.15	2.97	2.00	6.73	2.55
5	71.4	67.55	72.90	67.07	72.76	3.85	1.50	4.33	1.36
6	76.9	79.39	80.47	86.37	78.04	2.49	3.57	9.47	1.13
7	72.4	72.86	73.56	75.09	76.47	0.46	1.16	2.69	4.07
7a	76.5	78.75	77.54	73.28	71.30	2.25	1.04	3.22	5.20
8	65.9	64.06	65.84	67.08	69.30	1.84	0.06	1.18	3.40
9	42.3	46.80	44.15	48.68	42.94	4.50	1.85	6.38	0.64
11	173.9	173.34	174.13	175.50	174.14	0.56	0.23	1.60	0.24
12	22.6	24.09	23.94	24.38	23.86	1.49	1.34	1.78	1.26
MAE ^b						2.74	1.75	4.46	2.82

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S24. ^{13}C experimental related to exp_2c set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with $^a|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^a$			
	exp_2c	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	73.7	77.10	73.18	75.81	78.99	3.40	0.52	2.11	5.29				
2	43.6	35.66	43.07	45.53	41.93	7.94	0.53	1.93	1.67				
3	61.6	66.73	67.70	62.97	67.15	5.13	6.10	1.37	5.55				
5	62.5	67.55	72.90	67.07	72.76	5.05	10.40	4.57	10.26				
6	78.7	79.39	80.47	86.37	78.04	0.69	1.77	7.67	0.67				
7	68.9	72.86	73.56	75.09	76.47	3.96	4.66	6.19	7.57				
7a	73.9	78.75	77.54	73.28	71.30	4.85	3.64	0.62	2.60				
8	63.3	64.06	65.84	67.08	69.30	0.76	2.54	3.78	6.00				
9	40.8	46.80	44.15	48.68	42.94	6.00	3.35	7.88	2.14				
11	173.7	173.34	174.13	175.50	174.14	0.36	0.43	1.80	0.44				
12	22.6	24.09	23.94	24.38	23.86	1.49	1.34	1.78	1.26				
MAE ^b						3.60	3.21	3.61	3.95				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S25. ^{13}C experimental related to exp_2d set of data and calculated NMR chemical shifts (B97-2/cc-pVTZ level of theory) related to calc_2a, calc_2b, calc_2c, calc_2d sets of data, with ^a $|\Delta\delta|(^{13}\text{C})$ and ^bMAE values.

Position	$\delta_{\text{exp}}(^{13}\text{C}), \text{ppm}$					$\delta_{\text{calc}}(^{13}\text{C}), \text{ppm}$				$ \Delta\delta (^{13}\text{C}), \text{ppm}^{\text{a}}$			
	exp_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d	calc_2a	calc_2b	calc_2c	calc_2d
1	76.6	77.10	73.18	75.81	78.99	0.50	3.42	0.79	2.39				
2	39.8	35.66	43.07	45.53	41.93	4.14	3.27	5.73	2.13				
3	66.2	66.73	67.70	62.97	67.15	0.53	1.50	3.23	0.95				
5	71.5	67.55	72.90	67.07	72.76	3.95	1.40	4.43	1.26				
6	74.1	79.39	80.47	86.37	78.04	5.29	6.37	12.27	3.94				
7	73.9	72.86	73.56	75.09	76.47	1.04	0.34	1.19	2.57				
7a	70.8	78.75	77.54	73.28	71.30	7.95	6.74	2.48	0.50				
8	68.7	64.06	65.84	67.08	69.30	4.64	2.86	1.62	0.59				
9	42.8	46.80	44.15	48.68	42.94	4.00	1.35	5.88	0.14				
11	173.7	173.34	174.13	175.50	174.14	0.36	0.43	1.80	0.44				
12	22.6	24.09	23.94	24.38	23.86	1.49	1.34	1.78	1.26				
MAE ^b						3.08	2.64	3.75	1.47				

^a $|\Delta\delta|(^{13}\text{C}) = |\delta_{\text{exp}} - \delta_{\text{calc}}|(^{13}\text{C}), \text{ppm}$: absolute differences for experimental versus calculated ^{13}C NMR chemical shifts

^b $\text{MAE} = \Sigma[|(\delta_{\text{exp}} - \delta_{\text{calcd}})|]/n$, summation through n of the absolute error values (difference of the absolute values between corresponding experimental and ^{13}C chemical shifts), normalized to the number of the chemical shifts

Table S26. Sampled and DFT geometry optimized conformers related to calc_1a, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_1a conf_1	-997.7100047	52.18%	-997.9450900	64.59%	-997.9038062	63.05%
calc_1a conf_2	-997.7088563	15.46%	-997.9435817	13.07%	-997.9025508	16.68%
calc_1a conf_3	-997.7083563	9.10%	-997.9428143	5.80%	-997.9016043	6.12%
calc_1a conf_4	-997.7082807	8.40%	-997.9430366	7.34%	-997.9014365	5.12%
calc_1a conf_5	-997.7077996	5.05%	-997.9421001	2.72%	-997.9009142	2.95%
calc_1a conf_6	-997.7069035	1.95%	-997.9413632	1.25%	-997.8999644	1.08%
calc_1a conf_7	-997.7065498	1.34%	-997.9410529	0.90%	-997.8992952	0.53%
calc_1a conf_8	-997.7065316	1.32%	-997.9406889	0.61%	-997.8985534	0.24%
calc_1a conf_9	-997.7065042	1.28%	-997.9411241	0.97%	-997.9001548	1.32%
calc_1a conf_10	-997.7064842	1.25%	-997.9412112	1.06%	-997.9001646	1.33%
calc_1a conf_11	-997.7064661	1.23%	-997.9405997	0.56%	-997.8988813	0.34%
calc_1a conf_12	-997.7051654	0.31%	-997.9390339	0.11%	-997.8973415	0.07%
calc_1a conf_13	-997.7049233	0.24%	-997.9399940	0.29%	-997.8990698	0.42%
calc_1a conf_14	-997.7049203	0.24%	-997.9398862	0.26%	-997.8989558	0.37%
calc_1a conf_15	-997.7046194	0.17%	-997.9391947	0.13%	-997.8975500	0.08%
calc_1a conf_16	-997.7045258	0.16%	-997.9391402	0.12%	-997.8975233	0.08%
calc_1a conf_17	-997.7036931	0.07%	-997.9381556	0.04%	-997.8968189	0.04%
calc_1a conf_18	-997.7036183	0.06%	-997.9383642	0.05%	-997.8971150	0.05%
calc_1a conf_19	-997.7031591	0.04%	-997.9383256	0.05%	-997.8969003	0.04%
calc_1a conf_20	-997.7031085	0.04%	-997.9380534	0.04%	-997.8965821	0.03%
calc_1a conf_21	-997.7030426	0.03%	-997.9372161	0.02%	-997.8963949	0.02%
calc_1a conf_22	-997.7025020	0.02%	-997.9365943	0.01%	-997.8939768	0.00%
calc_1a conf_23	-997.7024711	0.02%	-997.9366162	0.01%	-997.8944996	0.00%
calc_1a conf_24	-997.7023113	0.02%	-997.9370736	0.01%	-997.8957753	0.01%
calc_1a conf_25	-997.7022650	0.01%	-997.9364762	0.01%	-997.8944422	0.00%
calc_1a conf_26	-997.7005001	0.00%	-997.9343100	0.00%	-997.8923604	0.00%
calc_1a conf_27	-997.6985464	0.00%	-997.9338218	0.00%	-997.8915728	0.00%

Table S27. Cartesian coordinates of the optimized geometries for the conformers related to calc_1a. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S26.

calc_1a conf_1

C	-5.7028004057	0.1252675446	3.626082063
C	-6.4765350458	0.0458975075	2.4749069827
C	-5.9161264461	-0.3304778576	1.2446825126
C	-4.5672593435	-0.6137808691	1.1774870237
C	-3.7564570587	-0.5214768629	2.3249839931
C	-4.3399762212	-0.1702163411	3.5661743008
O	-3.6301790667	-0.1097732216	4.6906907846
O	-7.8000267818	0.3187252075	2.4791182461
C	-3.8982038905	-1.0601586625	-0.091751582
C	-2.4570278509	-0.5851596574	-0.1154207915
O	-1.7651406027	-1.0334757411	1.0716722742
C	-2.3309739461	-0.8258908194	2.2686448041
O	-1.623267428	-0.9203752227	3.2667984604
C	-1.659698452	-1.1035592403	-1.2971019195
C	-0.2596633373	-0.5138051864	-1.3851381537
C	0.5562434291	-1.1018517604	-2.5319097751
C	1.8954012064	-0.3760565276	-2.6527678917
C	1.6634304127	1.1311419816	-2.7550557685
C	0.7721733727	1.6443923556	-1.6205334802
O	-0.4336902832	0.885803272	-1.5579142293
C	1.4763108474	1.7209574503	-0.2688444473
H	-6.1329634183	0.4003750881	4.5839867927
H	-6.5554810117	-0.391688831	0.3716011196
H	-2.7128839711	-0.4081852107	4.4581081802
H	-8.0702488338	0.5654031683	3.3734010062
H	-4.4270663075	-0.6727810017	-0.9675286616
H	-3.9203387134	-2.1565228384	-0.1584225392
H	-2.4264446933	0.5096940577	-0.1138933834
H	-2.2017007566	-0.8527090717	-2.216278581
H	-1.5941410674	-2.1957054886	-1.2346703076
H	0.2607737731	-0.7117972903	-0.4370119364
H	-0.0130008634	-0.9870004661	-3.4638427703
H	0.7059647587	-2.1752632973	-2.3685874878
H	2.4497493952	-0.7337318876	-3.5268620676
H	2.5156056302	-0.6059932697	-1.7774212686
H	2.6141370993	1.6759605439	-2.7559030134
H	1.1648736111	1.3502558141	-3.7068032053
H	0.4265655219	2.651829159	-1.8750847356
H	2.2795288812	2.4632800296	-0.3067642443
H	1.9204233957	0.7691177925	0.0336210453
H	0.7661144616	2.022335651	0.5055526512

calc_1a conf_2

C	-5.7663930421	0.0425980704	3.5039931249
C	-6.3760227421	0.1729049941	2.262499665
C	-5.6872983739	-0.1279925238	1.0773578359
C	-4.3746473175	-0.5473850328	1.1493681451
C	-3.7266766812	-0.6682866902	2.3934086755
C	-4.4424073472	-0.3923368026	3.5833629037
O	-3.8946002167	-0.5324891286	4.7881601984
O	-7.6553707707	0.5873854259	2.1304282026
C	-3.5782429005	-0.9216428035	-0.0687700996

C	-2.1108554107	-0.6016212635	0.1511195908
O	-1.6350485467	-1.2496484873	1.3512147868
C	-2.3416007507	-1.1175033697	2.4831772868
O	-1.7937230186	-1.4010400261	3.5433609905
C	-1.2013581235	-1.0676329616	-0.9701158964
C	0.2396330712	-0.56877036	-0.8070907774
C	1.1978635872	-1.1306297478	-1.8588226554
C	1.0037643447	-0.4637356476	-3.2178951842
C	1.0835842081	1.0516393629	-3.0558734959
C	0.0978542072	1.5311198421	-1.9946788313
O	0.3014288138	0.8534005105	-0.7595607381
C	0.2278746289	3.0106002641	-1.6897378285
H	-6.2982495222	0.2578754135	4.4254609846
H	-6.2017930872	-0.0248833704	0.1289498455
H	-2.9859886126	-0.9028385363	4.6410963761
H	-8.0232135871	0.7654651881	3.0060065816
H	-3.9436120811	-0.3875378307	-0.9510021122
H	-3.6883911297	-1.9956368959	-0.2715554127
H	-1.9842862279	0.4775326266	0.2966436536
H	-1.2031122918	-2.163539855	-0.9908881527
H	-1.6271458038	-0.7322188322	-1.9220858985
H	0.5791609586	-0.8792648559	0.1849527158
H	1.0765928588	-2.2174282624	-1.9272798335
H	2.2222556387	-0.9436977602	-1.5161417766
H	0.0301026741	-0.7389012907	-3.6443069426
H	1.7607741354	-0.8178467012	-3.9255220353
H	0.877525738	1.5618145541	-4.0037006155
H	2.0965821642	1.3374894036	-2.7444218153
H	-0.9243562888	1.3332143356	-2.3600382062
H	1.2325498118	3.2313556417	-1.3179558363
H	-0.4917756626	3.3090636167	-0.9231767703
H	0.0486226964	3.6070497862	-2.5889406486

calc_1a conf_3

C	-5.8456043311	0.0791484077	3.2974420107
C	-6.0677400596	0.5095667	1.9950118303
C	-5.1263843087	0.2796207655	0.9803171559
C	-3.9513165547	-0.3762685795	1.2872317515
C	-3.6930150912	-0.8041970346	2.6036966006
C	-4.6641923556	-0.5942037404	3.611829829
O	-4.4908784037	-1.018059544	4.8621478626
O	-7.1961459501	1.1628874249	1.6383259593
C	-2.910482609	-0.6970488754	0.2539063637
C	-1.5306908686	-0.6757828807	0.8838374661
O	-1.4870346646	-1.5756107269	2.0156398475
C	-2.4580181302	-1.5040013726	2.9381040428
O	-2.2629445242	-2.04361677	4.0230665679
C	-0.3908539321	-1.1113700784	-0.0257523531
C	0.1128959472	-0.0359805289	-0.9772581621
C	1.3496886452	-0.4906695708	-1.7482044864
C	1.7596131016	0.5620249566	-2.7750895876
C	0.566666606	0.9091481457	-3.6627765473
C	-0.6602075121	1.2950749436	-2.8327548203
O	-0.9485885707	0.2842082134	-1.86641205
C	-0.5659603311	2.681812881	-2.2025196771
H	-6.5773432209	0.2391701538	4.0831268844
H	-5.3418056196	0.6193436049	-0.0260850432
H	-3.6347709068	-1.5195048539	4.8700788944

H	-7.763323996	1.2620574931	2.4142622216
H	-2.9323498654	0.0035500386	-0.582213112
H	-3.0943024179	-1.6979105098	-0.1597314802
H	-1.3263140321	0.3315746033	1.2721466075
H	-0.6894247371	-1.9956164973	-0.60014595
H	0.4421573665	-1.4105620167	0.6190497718
H	0.3790410698	0.8557403527	-0.384611778
H	1.1146868726	-1.4338243349	-2.2579352908
H	2.1662787292	-0.6930169118	-1.0463169665
H	2.5927907407	0.1987958229	-3.3855601681
H	2.1233499595	1.458960763	-2.2582215781
H	0.8134332073	1.7203887689	-4.3566467311
H	0.3077863617	0.0333717892	-4.269458568
H	-1.540957301	1.2827279322	-3.4829543923
H	0.3247873476	2.80656003	-1.5808019546
H	-1.4443709263	2.8709404241	-1.5794311863
H	-0.5311547344	3.4465706114	-2.9843397844

calc_la conf_4

C	-5.9352955581	-0.9158737704	2.7619282609
C	-6.1582912927	0.4335186197	2.5192018545
C	-5.1038710293	1.2980296055	2.1855243393
C	-3.8241974638	0.7918551868	2.0874838464
C	-3.5737670635	-0.5759943881	2.3073783463
C	-4.6412967548	-1.4322883946	2.6693255483
O	-4.4571571866	-2.7254241434	2.9249014892
O	-7.3901713759	0.9834601784	2.5962178491
C	-2.6291742392	1.6535131446	1.7975672786
C	-1.5792920276	0.8800539618	1.0135505201
O	-1.2483273271	-0.3513748104	1.6964872419
C	-2.2288009703	-1.1273375434	2.1785860659
O	-1.944800474	-2.277701427	2.5007818183
C	-1.9735814295	0.5821534576	-0.4283278928
C	-0.8568774329	-0.0756711193	-1.2255887284
C	-1.2810039469	-0.4442906445	-2.6433280723
C	-0.0832290208	-0.9728862092	-3.4308584679
C	1.0695041791	0.0277853918	-3.3608116043
C	1.3923004576	0.4204397711	-1.9164479103
O	0.2121609834	0.8610554053	-1.2481453877
C	2.1306725272	-0.6602863485	-1.1317818053
H	-6.7435184221	-1.5871742331	3.0347300809
H	-5.3161199748	2.3475950821	2.017931765
H	-3.4797359563	-2.8857483829	2.8568365382
H	-8.0291794231	0.2990010557	2.8347197268
H	-2.188670367	1.9865381187	2.7461303657
H	-2.9142494464	2.5539668057	1.2458684508
H	-0.6360694474	1.4271871905	1.0049100428
H	-2.2331295985	1.5296368631	-0.9152532986
H	-2.8665810532	-0.0522156137	-0.4519183294
H	-0.5406320731	-0.9880422198	-0.6987610739
H	-1.6824521852	0.4518590768	-3.1343818006
H	-2.0855013875	-1.1877617457	-2.608561455
H	-0.3596682201	-1.1583905102	-4.4741582479
H	0.2278583587	-1.9402541358	-3.0170567439
H	1.9669542062	-0.3719533492	-3.8462634527
H	0.7852046547	0.9357375538	-3.9060456715
H	2.0255348619	1.313808727	-1.9300253879
H	1.6084752979	-1.6206482651	-1.1318781702

H	2.2563424178	-0.3460093152	-0.0923543845
H	3.1226342034	-0.8238686264	-1.5641135438

calc_1a conf_5

C	-5.7542268419	0.0617368229	3.3863784529
C	-5.764845985	0.9975475601	2.3591571451
C	-4.7754815531	0.9992220216	1.3641758127
C	-3.7665531984	0.0589696186	1.415948051
C	-3.7216601019	-0.8876075431	2.4571440923
C	-4.7421161113	-0.8977295226	3.4384972541
O	-4.7727558099	-1.7970061124	4.419722763
O	-6.7240666532	1.9444962435	2.2615584933
C	-2.6956170041	-0.0320527712	0.3672642591
C	-1.4049563596	-0.5402261475	0.9813145617
O	-1.6327534769	-1.7925397242	1.6661615743
C	-2.6656757346	-1.8910038136	2.5166887491
O	-2.6768969942	-2.8345712687	3.3010400675
C	-0.2766856313	-0.8203364262	0.0010283151
C	0.3729246609	0.4357173182	-0.5923103219
C	1.6893239825	0.1393874044	-1.3168908572
C	1.4504235774	-0.5155829347	-2.6743055436
C	0.4869872618	0.3432478041	-3.4885662973
C	-0.7926852151	0.6116209935	-2.702902918
O	-0.5043555035	1.1842194105	-1.4295538791
C	-1.7214314235	1.5836434942	-3.403632594
H	-6.5255668545	0.0453706068	4.1500436105
H	-4.8240877593	1.7387991354	0.5733875468
H	-4.0186316143	-2.4190927615	4.2511323852
H	-7.3436592184	1.8451834845	2.9963349844
H	-2.5104850731	0.9334251174	-0.1075949008
H	-3.0111948079	-0.7264855274	-0.4238544797
H	-1.0616827186	0.1786610194	1.7383198818
H	0.49297137	-1.3731973992	0.5505091577
H	-0.6403048084	-1.4959226605	-0.7804868545
H	0.5834340273	1.1213857622	0.2371498609
H	2.3313173216	-0.4808665845	-0.6823187557
H	2.2102808436	1.0918196803	-1.4697956886
H	1.0321446269	-1.52182467	-2.5440119092
H	2.3993939846	-0.641435282	-3.2058870579
H	0.2358160757	-0.1395241482	-4.4396898389
H	0.9588932355	1.3056428974	-3.7255557022
H	-1.3199692814	-0.3462243215	-2.5619342308
H	-1.2268085814	2.5506355108	-3.5326906602
H	-2.6317105713	1.740847292	-2.8192173496
H	-2.0040460821	1.2016504212	-4.3887571792

calc_1a conf_6

C	-5.9451858806	-1.0203796414	2.6503891195
C	-6.1709819289	0.247218393	2.1292870136
C	-5.1061667661	1.0770564893	1.7442130504
C	-3.8124637043	0.6173221685	1.8785857541
C	-3.5561700619	-0.670929283	2.3851872548
C	-4.6373292831	-1.4882187364	2.7939944327
O	-4.4532733506	-2.6996465481	3.3130572618
O	-7.4157468521	0.748460069	1.9712319423
C	-2.6128365535	1.4590935222	1.5522020373
C	-1.4655302207	0.5960044646	1.0491805354

O	-1.1819445976	-0.4611407444	1.9939709025
C	-2.1925446764	-1.1758477546	2.5096961673
O	-1.919887503	-2.2296346452	3.0770093742
C	-1.685778582	-0.0024321955	-0.3363158172
C	-0.4241439646	-0.6858193698	-0.8763124393
C	-0.6504798936	-1.4335378919	-2.1915069343
C	-0.7759250843	-0.4765698512	-3.3742139602
C	0.4263368016	0.4639511197	-3.3959221035
C	0.5859968062	1.167622737	-2.0514485492
O	0.6624234976	0.2291364178	-0.9846106358
C	1.8483655866	2.0037305369	-1.9681470203
H	-6.7628164249	-1.6619991308	2.9634678513
H	-5.3225476825	2.0656183896	1.3560015128
H	-3.4710765558	-2.8278434047	3.3794109842
H	-8.0618708381	0.0949454821	2.2698321229
H	-2.2876443126	1.9861937545	2.458403669
H	-2.8558602929	2.2241200046	0.8090654693
H	-0.5395184998	1.1736510414	1.0326917606
H	-2.5055645915	-0.7285887548	-0.2994665844
H	-2.0139011231	0.7972182566	-1.0096387642
H	-0.0892869272	-1.3992030452	-0.1175598323
H	-1.5325383531	-2.0775671646	-2.104587296
H	0.2110188522	-2.0907580377	-2.3580425512
H	-1.702387135	0.1075807934	-3.2971521491
H	-0.8435210353	-1.0387318669	-4.3115504983
H	0.3284626981	1.2122429349	-4.1907082102
H	1.3401986458	-0.1096035691	-3.5982367714
H	-0.2860942851	1.8267765414	-1.9016615175
H	1.9269687808	2.4842909685	-0.9895803263
H	1.8494661849	2.7792348503	-2.7395395584
H	2.7287791063	1.3699827	-2.107676697

calc_1a conf_7

C	-5.8757080863	-0.7794434174	2.3556051759
C	-5.7886106866	0.3726029519	1.5837378208
C	-4.5506811835	0.9704688489	1.3026466101
C	-3.3975974124	0.3946665824	1.7960914154
C	-3.4566902499	-0.785553789	2.5608584685
C	-4.7129978481	-1.3642931574	2.8603371919
O	-4.8293806289	-2.4579539883	3.611076637
O	-6.8842031035	0.9766676583	1.0713134601
C	-2.0404195157	1.004261287	1.5955721005
C	-0.9707420724	-0.0737686421	1.5159736053
O	-1.0506737215	-0.9524323428	2.6627016193
C	-2.2422850465	-1.4154184036	3.066310244
O	-2.2537042514	-2.3533284714	3.858453333
C	-0.9896373469	-0.917296879	0.2402698978
C	-0.3122580342	-0.2664196605	-0.9585234189
C	-0.2134740968	-1.2202622315	-2.1473155336
C	0.3581454215	-0.5026000716	-3.368165818
C	-0.4483647263	0.76354305	-3.6498897082
C	-0.5633677327	1.6462424108	-2.4057995466
O	-1.0609961702	0.8911521579	-1.301671406
C	0.7208071954	2.3943695966	-2.0588488614
H	-6.8315004004	-1.2380964173	2.5891618223
H	-4.5239300285	1.8742084114	0.7052997036
H	-3.9118437322	-2.6870707185	3.9121017877
H	-7.6702434497	0.477760841	1.3297644818

H	-1.8158055337	1.6636043035	2.4440949192
H	-2.0034892057	1.6019077973	0.6837921032
H	0.0170203874	0.382416331	1.6235747153
H	-2.0188977867	-1.1818631979	-0.0266215077
H	-0.457431907	-1.8490300966	0.459075394
H	0.7084046487	0.0306205012	-0.6624417841
H	-1.2191180859	-1.5958411302	-2.3754225067
H	0.4038921149	-2.0837202862	-1.8753210591
H	0.3436263134	-1.1627342713	-4.2416472646
H	1.4112832859	-0.2517206791	-3.1889713219
H	-0.0068218813	1.3379558942	-4.4718472063
H	-1.4601380975	0.4790766116	-3.9619777788
H	-1.3471044549	2.3914062712	-2.576748547
H	0.9706656621	3.0993222344	-2.8576080608
H	1.5789478414	1.7297869423	-1.9270539605
H	0.5853236063	2.9618071686	-1.1339372164

calc_la conf_8

C	-5.6686246361	-0.5212398905	1.8334752355
C	-5.3780463147	0.711425831	1.2628782252
C	-4.0669415304	1.2122333987	1.2375894653
C	-3.046416518	0.4583863671	1.7823732395
C	-3.3121214848	-0.8026019298	2.3490729737
C	-4.6422196996	-1.2849109258	2.3927768807
O	-4.9554467527	-2.4523015138	2.9500808184
O	-6.3345082305	1.4906740097	0.710874891
C	-1.6277885924	0.9458351137	1.8531953461
C	-0.6530535149	-0.2172467957	1.7619620106
O	-0.9695941019	-1.2220604782	2.7532974603
C	-2.2405534164	-1.6139960164	2.9173114833
O	-2.4464280408	-2.6429436861	3.5540918693
C	-0.5555386786	-0.8924485184	0.3943495811
C	0.2497859732	-0.0993448409	-0.6440775795
C	0.5868754926	-0.9244606973	-1.8900533802
C	-0.626876741	-1.093575602	-2.7997272418
C	-1.2159672681	0.2781679794	-3.1169856011
C	-1.5113751287	1.0508597506	-1.8356019828
O	-0.3523893594	1.1388113749	-1.0076914472
C	-1.9478186139	2.4781842345	-2.1023468706
H	-6.6822358638	-0.9080570291	1.8697318792
H	-3.8838706337	2.1869522222	0.8006384054
H	-4.1136790067	-2.8125259516	3.3337020405
H	-7.1899361423	1.0488410988	0.7929314312
H	-1.4746379816	1.4603072476	2.8106454017
H	-1.4023698816	1.6555143956	1.0547333932
H	0.3435038283	0.119879103	2.0598052303
H	-0.0430934154	-1.8476981787	0.552260087
H	-1.5577850808	-1.1338381375	0.0249311557
H	1.1902417465	0.2029095774	-0.1673583159
H	1.0011546183	-1.8940819864	-1.5934588376
H	1.3717393736	-0.3937736293	-2.4418608267
H	-1.3846454106	-1.7204781097	-2.3127579791
H	-0.3403100472	-1.6131500941	-3.7200424623
H	-2.1356261075	0.1858111283	-3.705556837
H	-0.5014296723	0.8571134984	-3.7164682568
H	-2.311897557	0.5299255848	-1.2865878536
H	-1.1591644766	3.0221901572	-2.6302560265
H	-2.1547695553	3.0044974362	-1.1666620814

H -2.8541415772 2.4942145023 -2.7142149241

calc_1a conf_9

C -5.5189209604 -0.3032289356 4.0931611035
C -6.236356258 0.4648880254 3.184524649
C -5.787246225 0.6445511125 1.8668711805
C -4.6033281606 0.0558899567 1.472872824
C -3.8468932127 -0.7113198859 2.3796506112
C -4.3257838933 -0.9095575292 3.697340797
O -3.6738420991 -1.6593640234 4.5828497232
O -7.3973171536 1.0708132904 3.5153361369
C -4.0725521817 0.1693302407 0.0721350949
C -2.5533143417 0.1369746153 0.0821301009
O -2.0890397444 -1.0450161078 0.7671960292
C -2.5971994277 -1.3415980781 1.9739255571
O -1.9874695108 -2.1447250171 2.6724490059
C -1.9492691065 0.1377308309 -1.3087274112
C -0.4298554535 0.2846368383 -1.3771891703
C 0.3471603698 -1.0036419842 -1.1218627894
C 1.837439006 -0.7866036457 -1.3742036013
C 2.0481656026 -0.2078880142 -2.7711559066
C 1.190558729 1.0396677369 -2.9950111508
O -0.1760161559 0.7772129101 -2.6874219252
C 1.7110259501 2.2787445909 -2.2707139766
H -5.8685156851 -0.4588831109 5.1089176762
H -6.3816976838 1.2416254475 1.185071767
H -2.8957779224 -2.0461140572 4.1047838386
H -7.6043655521 0.8788026708 4.4394609518
H -4.4174946374 1.0927663224 -0.4016608499
H -4.4442439422 -0.6654130202 -0.5371768276
H -2.1818802165 1.0014026495 0.6495048082
H -2.37175338 0.9924995361 -1.848353572
H -2.2623220768 -0.7655642094 -1.8445577942
H -0.1198305166 1.0397658389 -0.6342507699
H -0.0333816112 -1.7729359544 -1.8065014081
H 0.1605993135 -1.355652439 -0.1045562136
H 2.3831225434 -1.7299936951 -1.2679834328
H 2.2460256535 -0.1083569183 -0.6139977487
H 3.1028862939 0.0315371917 -2.9480251265
H 1.7588914835 -0.9602232872 -3.5145663698
H 1.1705381485 1.2649927953 -4.0665694985
H 2.6866790329 2.5673674141 -2.673656318
H 1.8333316736 2.1210238415 -1.195607665
H 1.0192433084 3.1128560566 -2.4164323292

calc_1a conf_10

C -5.6148711677 -0.5450433466 4.0095492508
C -6.0276236825 0.6213304456 3.3775319666
C -5.3923288604 1.0845579323 2.2145830732
C -4.3295138475 0.3723088022 1.6986701364
C -3.8785029497 -0.8024487925 2.3310510417
C -4.5470856355 -1.2755269104 3.4861438046
O -4.1919291187 -2.4023236238 4.0988381365
O -7.0566277516 1.3636384702 3.8402114987
C -3.6208909065 0.7802735498 0.4380977626
C -2.1601283248 0.3655517782 0.4981347176
O -2.0600231958 -1.0475350654 0.7716215447

C	-2.7625326565	-1.5677812548	1.7912780106
O	-2.4371010631	-2.6747435163	2.2068994995
C	-1.4058282064	0.6377203045	-0.7915719757
C	0.1246904677	0.5081172008	-0.69760902
C	0.6671506363	-0.9217996626	-0.7431222294
C	0.5850442927	-1.5092453752	-2.1500186716
C	1.2413566996	-0.5590254374	-3.148225499
C	0.6524220146	0.8423493044	-3.0215916061
O	0.7531660002	1.3185789053	-1.6839512652
C	1.3598900026	1.8653887473	-3.8884451226
H	-6.111802447	-0.9173863722	4.8998351573
H	-5.7516512078	1.9928127987	1.7448163691
H	-3.467556004	-2.8032388204	3.5531756635
H	-7.4118986084	0.9525060544	4.6393030532
H	-3.6895825003	1.8611379017	0.2852496676
H	-4.0943252259	0.2996840859	-0.4286366909
H	-1.6750120829	0.8895474081	1.3332856646
H	-1.8241864745	-0.0029930852	-1.5751932886
H	-1.6129889006	1.6751425086	-1.0784136809
H	0.4313957742	0.9703798425	0.2482985947
H	0.1343566487	-1.546484613	-0.022630884
H	1.7194921464	-0.8846470959	-0.4367968007
H	-0.4628281913	-1.6771266263	-2.4312139024
H	1.0682133777	-2.4915173418	-2.1749851754
H	1.1179658682	-0.9177446101	-4.1766707388
H	2.3194293991	-0.5003477337	-2.9496615378
H	-0.4102075072	0.8016363233	-3.3154678091
H	2.4148830134	1.9319821641	-3.6069737386
H	0.9095022482	2.8530157727	-3.7601513129
H	1.2970679269	1.586298983	-4.9442436638

calc_1a conf_11

C	-5.7595852361	-0.2566692914	3.2475952216
C	-5.5908745571	1.1114469396	3.0736022628
C	-4.4913006865	1.6271483597	2.3702691899
C	-3.553022837	0.7562781753	1.8555170418
C	-3.6879286862	-0.6333766685	2.0379163465
C	-4.8196089806	-1.1427423241	2.7189952252
O	-5.0221510689	-2.4489137904	2.877794923
O	-6.4727917153	2.0113937456	3.5618025416
C	-2.37408164	1.2167815056	1.0472076124
C	-1.1950020905	0.2917658526	1.2937721885
O	-1.5607398608	-1.0729123854	0.9963299236
C	-2.7028493252	-1.5633871208	1.4983779357
O	-2.8669926044	-2.7795285215	1.4735168184
C	0.0689536681	0.6020150291	0.5011758366
C	-0.1288607863	1.0268353132	-0.9616368371
C	1.2018632585	1.19438877	-1.7036662895
C	1.806156309	-0.1539484345	-2.0910684605
C	0.7665589219	-0.9902173165	-2.8333985935
C	-0.5124910201	-1.1078938458	-2.0114873547
O	-1.0151136248	0.1882970529	-1.6821354501
C	-1.6311747614	-1.8183041364	-2.745493314
H	-6.6173258064	-0.6623948268	3.7747682258
H	-4.4044927303	2.699812803	2.2414300602
H	-4.2929706369	-2.9065928045	2.3849551193
H	-7.1832328362	1.5433136984	4.0198601672
H	-2.1014353509	2.2455001266	1.3024404518

H	-2.6265029431	1.189653535	-0.0189418286
H	-0.945734837	0.3147529137	2.3629944359
H	0.5885875595	1.4233872307	1.0094178557
H	0.7258068877	-0.2699614303	0.5832767655
H	-0.6392720199	1.9967996851	-0.9537608889
H	1.8991861536	1.7810765469	-1.0944808639
H	1.0080571638	1.7707735703	-2.6157118962
H	2.1392674408	-0.694311373	-1.1957453185
H	2.6977018734	-0.0026895251	-2.7088769297
H	1.1545960345	-1.9916616894	-3.0511280816
H	0.5251153906	-0.5174359911	-3.7943718683
H	-0.2947232568	-1.6549413209	-1.0836172459
H	-1.3255477476	-2.8315096306	-3.0215772354
H	-1.8961821193	-1.2720527443	-3.6558877052
H	-2.5178608953	-1.8869756822	-2.1110299874

calc_la conf_12

C	-5.9249304362	-0.5357044603	3.023367344
C	-5.9327495481	0.7211107323	2.4306493957
C	-4.8199116534	1.2010472088	1.723789544
C	-3.6903882079	0.41354019	1.6274774475
C	-3.6499721856	-0.8564930325	2.2357912533
C	-4.7908717957	-1.3421936793	2.9198448433
O	-4.8227724165	-2.5520860826	3.4748141676
O	-7.0064111377	1.5391225048	2.4989154397
C	-2.474580505	0.8384033223	0.8544784903
C	-1.2325511351	0.249924011	1.5003746162
O	-1.3486967947	-1.1874697711	1.6051785448
C	-2.4683131225	-1.704600019	2.1338572706
O	-2.4457970628	-2.8770326212	2.4959931539
C	0.1016520069	0.5494945386	0.8309028825
C	0.2839343806	0.2726486859	-0.6599519715
C	0.001258536	-1.153550631	-1.1232385523
C	0.2218246768	-1.2562354665	-2.6315355269
C	-0.6154792524	-0.1988249825	-3.3500342085
C	-0.369268446	1.2015502644	-2.7823927427
O	-0.5245151953	1.2078755754	-1.3638156141
C	0.961097925	1.8139998562	-3.2134375046
H	-6.7884120403	-0.9191529107	3.5578754103
H	-4.8696799845	2.181971384	1.2655128638
H	-3.9622950418	-2.9881662541	3.2432418765
H	-7.7037315731	1.1046086758	3.0073719725
H	-2.3866625442	1.927625901	0.8212833856
H	-2.5427407253	0.5055401743	-0.1858310882
H	-1.1710680638	0.6268835407	2.5304523962
H	0.3102612171	1.6137617911	0.9880838096
H	0.8687655009	-0.0081235633	1.3793843471
H	1.3444960411	0.4875469289	-0.8728798144
H	-1.0316525228	-1.4215499037	-0.8810244487
H	0.6437198836	-1.8535155311	-0.5788849544
H	-0.0441473751	-2.2556629481	-2.9910165308
H	1.2866785	-1.1187102763	-2.8600682318
H	-1.6774174334	-0.4403202005	-3.2211099434
H	-0.4149677847	-0.2001851171	-4.4273189818
H	-1.1673734363	1.8664882124	-3.1287134356
H	0.9616972095	1.9815810684	-4.2948161512
H	1.8194538072	1.1781347113	-2.9798959479
H	1.1055177357	2.7777181733	-2.717674806

calc_1a conf_13

C	-5.611353231	-0.0793545962	3.9153905794
C	-5.9299432686	0.8710752571	2.953470279
C	-5.2345006433	0.9374809586	1.7361023439
C	-4.2066931543	0.0479831564	1.4987327675
C	-3.8493955103	-0.9107421812	2.4654334342
C	-4.5789262209	-0.9877681595	3.6764709117
O	-4.3137727339	-1.9022419164	4.6062586559
O	-6.9207492054	1.771432269	3.1338144595
C	-3.4398822977	0.028223636	0.2064919027
C	-2.0101512748	-0.4206146265	0.4549246829
O	-1.9991627301	-1.6941746034	1.1361417298
C	-2.7678437108	-1.8580544688	2.2236516664
O	-2.5303376534	-2.8107407214	2.9587590151
C	-1.1742562366	-0.6348831158	-0.7967137274
C	-0.9110904541	0.6257629749	-1.6329207422
C	-0.0209103419	1.6716131779	-0.9545145074
C	1.4396638444	1.2270124628	-0.9149015302
C	1.8951454042	0.8417603103	-2.3203608315
C	0.9501577224	-0.1898649729	-2.9297268694
O	-0.3943966623	0.2801888975	-2.9102727948
C	1.2662711842	-0.5008528822	-4.3791675427
H	-6.1558084881	-0.14665752	4.8520228896
H	-5.5219121513	1.6850848515	1.0058256997
H	-3.6018840694	-2.4834557602	4.232678474
H	-7.3235113967	1.631424187	4.0009357646
H	-3.4493864981	1.01829302	-0.2574696809
H	-3.9142826318	-0.6650867741	-0.5010824661
H	-1.5226774146	0.2985654771	1.125769159
H	-0.2347450528	-1.0974254172	-0.4799933528
H	-1.6837647576	-1.3620378381	-1.4384284117
H	-1.8754737769	1.0885642596	-1.8688667377
H	-0.3914636532	1.8993462622	0.0513130998
H	-0.094120377	2.5985933685	-1.5352333722
H	1.5606314279	0.3706838576	-0.2392935934
H	2.0667534911	2.0286827242	-0.5110671041
H	2.9157374	0.4429193774	-2.3072004912
H	1.8998225605	1.7311085845	-2.9638727062
H	1.0221335779	-1.1202636186	-2.343475163
H	2.2781613072	-0.9050424815	-4.4743901588
H	1.1940314173	0.4071154324	-4.9850300289
H	0.5588862596	-1.2336528485	-4.775205702

calc_1a conf_14

C	-5.75895123	0.0108768015	3.6460255225
C	-5.9975405948	0.7447655917	2.4908218592
C	-5.1512827634	0.6439913943	1.375768987
C	-4.0548012028	-0.1917681642	1.4362625852
C	-3.7783053389	-0.9301542729	2.6020360153
C	-4.6572224267	-0.8439390408	3.7087738575
O	-4.4703316052	-1.5538051872	4.8186985801
O	-7.0507849942	1.5834282568	2.3773480379
C	-3.1234567599	-0.3862457057	0.2732751008
C	-1.717637622	-0.6754325483	0.7708724959
O	-1.7292450055	-1.7983249858	1.6780501859
C	-2.6259054977	-1.8209286524	2.6751253741

O	-2.440310754	-2.6049894733	3.5999725747
C	-0.7204408531	-1.0531644058	-0.3108948549
C	-0.4411565952	0.0251358657	-1.3524750777
C	0.1509273404	1.3098931558	-0.7768819728
C	0.5699649275	2.2575472498	-1.8998333464
C	1.4875298188	1.530099801	-2.8800212354
C	0.8613690936	0.2213570329	-3.367547993
O	0.4614301957	-0.5837021004	-2.2618267005
C	-0.2674245526	0.4162877736	-4.3763848595
H	-6.418927579	0.0713516657	4.5057349906
H	-5.3791565571	1.2228056754	0.4881074023
H	-3.6858343959	-2.1371540298	4.6487381247
H	-7.5579658288	1.5691449072	3.1996663336
H	-3.1186645595	0.5007743956	-0.3665294312
H	-3.4649516647	-1.2279145697	-0.344454451
H	-1.3565349701	0.1884648023	1.3430287045
H	-1.0808307205	-1.9486971531	-0.8278877031
H	0.2251901358	-1.3249521222	0.1691498975
H	-1.3770218536	0.2756710822	-1.8792787744
H	1.0247756501	1.0469950082	-0.1666337076
H	-0.5729345435	1.8004120931	-0.1155903112
H	1.0749353897	3.1377282286	-1.488504195
H	-0.3228313735	2.6288233922	-2.4189951272
H	1.7334772577	2.1675549941	-3.736618314
H	2.4303484691	1.2905631159	-2.3743212935
H	1.6379408379	-0.3806653597	-3.8503296707
H	-1.060021456	1.0733228871	-4.007571187
H	-0.7141336157	-0.5500538816	-4.6252035525
H	0.1247177973	0.8598964824	-5.2966728706

calc_1a conf_15

C	-5.7652652314	-0.7110813385	2.2179141988
C	-5.7252099573	0.6682988225	2.3767283573
C	-4.5050535319	1.3544500149	2.4873465157
C	-3.325432795	0.6423686406	2.4288773054
C	-3.3372117081	-0.7544447318	2.2507881848
C	-4.5742640201	-1.4375628701	2.1628248655
O	-4.6465667471	-2.7591116945	2.0261200264
O	-6.8471624612	1.4175854827	2.4374243364
C	-1.9800395477	1.2864001892	2.6008583669
C	-0.9181958711	0.5548084438	1.7892401171
O	-0.9285151425	-0.8521052207	2.1164748173
C	-2.0959235278	-1.5128822613	2.1637005884
O	-2.0581437464	-2.7396273404	2.1363576021
C	-1.0370493366	0.7677327722	0.2835453734
C	0.1188315004	0.1713770251	-0.540503847
C	-0.0213741532	-1.3131512053	-0.8849311985
C	-1.0786523263	-1.5418694808	-1.9627993486
C	-0.7924710736	-0.6479664135	-3.1663332244
C	-0.6488099901	0.8071876781	-2.7307721779
O	0.3425561071	0.9393560826	-1.7177794308
C	-0.2254390915	1.7267860552	-3.8591473435
H	-6.7051122506	-1.2491405312	2.1442943724
H	-4.5162445126	2.4298082603	2.622071466
H	-3.7134525349	-3.0951072258	2.0523026175
H	-7.6190666321	0.8425621558	2.3518293925
H	-1.6988547074	1.2492104528	3.6611291577
H	-2.0062109685	2.3412815425	2.3137030039

H	0.0737295959	0.8781588678	2.1165079572
H	-2.0126392424	0.4071043127	-0.0589522329
H	-1.0206514772	1.8502261258	0.1109706198
H	1.0404798662	0.3122825593	0.0366016618
H	-0.2369342914	-1.8928660816	0.0159612163
H	0.9486855894	-1.6543516239	-1.2658520133
H	-2.0804411493	-1.3220706938	-1.5704421957
H	-1.0919695702	-2.5963440006	-2.2571548426
H	-1.5861565211	-0.7300462673	-3.9179218433
H	0.1448235723	-0.9600561701	-3.6449808099
H	-1.6206634075	1.1509427483	-2.3372652134
H	-0.1274582597	2.7543523016	-3.4996139109
H	-0.9602513735	1.7082165921	-4.669265546
H	0.7427809258	1.4112880251	-4.2588569417

calc_la conf_16

C	-5.8528468508	-0.8767026667	2.6097247782
C	-5.9175756005	0.5068038721	2.7156381648
C	-4.7606137072	1.2989111158	2.6406352896
C	-3.5392272393	0.6883093806	2.447353547
C	-3.4477874955	-0.7106210503	2.3168620327
C	-4.6184055071	-1.5002434241	2.4189134003
O	-4.5873018038	-2.8281153889	2.3374021005
O	-7.0856368706	1.159287899	2.9006034389
C	-2.2465632717	1.4518824365	2.4192222262
C	-1.2389881394	0.7825749785	1.4928742156
O	-1.0809386375	-0.6075431089	1.8529738937
C	-2.1656468156	-1.3630466663	2.0850066458
O	-2.0194521691	-2.5818506176	2.0967614087
C	-1.571453685	0.9383520104	0.014724098
C	-0.5264360684	0.3798994801	-0.9508007093
C	-0.635791394	-1.1206469858	-1.2075801887
C	0.3419274161	-1.5483362957	-2.3001397796
C	0.1347030379	-0.6924865678	-3.547425869
C	0.1827468848	0.8009710494	-3.2151883189
O	-0.7169651403	1.1126858911	-2.1550655405
C	1.5915334263	1.322444758	-2.9418168749
H	-6.7416128076	-1.495891786	2.6800041289
H	-4.8513764333	2.374290987	2.7402605484
H	-3.6320071958	-3.0808972748	2.2492354678
H	-7.8070127752	0.5171368687	2.9332859276
H	-1.8272298436	1.4821542161	3.4330360358
H	-2.4060264626	2.4880577757	2.1080204313
H	-0.2452991909	1.1994033456	1.6780102629
H	-1.6448932501	2.0125461366	-0.1885810116
H	-2.555059524	0.5087885995	-0.2061471744
H	0.4764145736	0.5967858181	-0.5441585879
H	-1.6627743876	-1.3383523094	-1.529871505
H	-0.4582715609	-1.6741658554	-0.2819352008
H	0.2053878333	-2.6080337673	-2.539543484
H	1.3712937336	-1.4462927338	-1.9334163267
H	0.8790679807	-0.9249377613	-4.3175154056
H	-0.8507198383	-0.9171547543	-3.9725899585
H	-0.2207127375	1.3632179267	-4.0639974818
H	1.5480128375	2.3742526296	-2.646086418
H	2.2027598561	1.2455896335	-3.8463414578
H	2.1037788231	0.7669722056	-2.1513467499

calc_1a conf_17

C	-5.9467511321	-0.2222408025	2.9318451372
C	-6.095565431	0.0277006989	1.5731809724
C	-5.0324392026	-0.1595262301	0.6773458514
C	-3.8117626376	-0.5875085188	1.1594486027
C	-3.6288366603	-0.8274008321	2.5337928143
C	-4.7178654558	-0.6650673312	3.4235202661
O	-4.6123965558	-0.920974638	4.7256579702
O	-7.2644059365	0.4558153582	1.0459138802
C	-2.6379729261	-0.845974965	0.2568540567
C	-1.3415102975	-0.5633291333	0.9913867048
O	-1.290186581	-1.3116544889	2.2296214691
C	-2.3453096765	-1.2855250369	3.0533635708
O	-2.1860330973	-1.6655999609	4.2096215134
C	-0.0528007369	-0.9431933285	0.274302488
C	0.2331373776	-0.1958065441	-1.0341523584
C	-0.3074575899	-0.8699979747	-2.294310351
C	-0.0113900054	-0.0033050431	-3.5171754237
C	-0.5362545186	1.4138716106	-3.2914436356
C	-0.023916547	2.0060948022	-1.9761369363
O	-0.2860706319	1.1182134475	-0.8905684098
C	1.4388988078	2.4383601176	-2.0208699611
H	-6.7696214988	-0.0951375178	3.6283196561
H	-5.1911539695	0.0361927114	-0.3768111352
H	-3.6962707622	-1.2762889215	4.8657381879
H	-7.9153199912	0.5507759067	1.7536249152
H	-2.6893455107	-0.206099947	-0.62649017
H	-2.6520916288	-1.8906125597	-0.0827035802
H	-1.3077666676	0.4989957969	1.2508708014
H	-0.0525994886	-2.022596958	0.0845816068
H	0.7564846813	-0.7518990657	0.9853137818
H	1.3280739619	-0.1444795748	-1.1431657527
H	-1.3884849925	-1.0244472265	-2.2045630974
H	0.1515439016	-1.8598823909	-2.3980746941
H	-0.4642787925	-0.4356383266	-4.4154663583
H	1.0711216333	0.017342786	-3.6966243446
H	-0.2632474724	2.071824456	-4.1239382381
H	-1.6320059429	1.3857657332	-3.2515613272
H	-0.6235586143	2.8888120831	-1.7315959152
H	1.5633788354	3.261531834	-2.7310189182
H	2.1131651981	1.6344927533	-2.3287304339
H	1.7538665547	2.7873972213	-1.0339032055

calc_1a conf_18

C	-5.9614232783	-0.1246225212	3.0356710715
C	-6.2929897444	-0.320554015	1.7008087831
C	-5.331100221	-0.7249354769	0.7623518646
C	-4.0281378623	-0.9169068504	1.1749850493
C	-3.6618043994	-0.7052424847	2.5168999578
C	-4.6473591942	-0.32939477	3.4602722764
O	-4.3650009828	-0.161917846	4.7502039807
O	-7.5505314155	-0.1396578066	1.2392804281
C	-2.94310813	-1.3856299967	0.2474282861
C	-1.6091844758	-0.7878748842	0.6622088773
O	-1.3409661595	-1.1377710696	2.0417960674
C	-2.288618742	-0.9165756802	2.96263542
O	-1.9601988129	-0.9191906011	4.1450149802

C	-0.4004307954	-1.2770945746	-0.1287867228
C	0.0143686653	-0.3940386178	-1.3032624243
C	-1.0022079756	-0.256059154	-2.4339468916
C	-0.458018345	0.6864900286	-3.506291062
C	-0.0737131817	2.0200174222	-2.8664728969
C	0.8636279996	1.8275985511	-1.6712151531
O	0.3259945958	0.8763934415	-0.7546073799
C	2.3000208185	1.4923300598	-2.0630697088
H	-6.7045696185	0.1712357218	3.7695401818
H	-5.6323348896	-0.8799931054	-0.2672622541
H	-3.4115100325	-0.4138331234	4.8615698384
H	-8.1194564972	0.1364209751	1.9698408801
H	-3.1755536186	-1.1216533478	-0.7869165971
H	-2.8661932811	-2.4808953023	0.2894023527
H	-1.6537598933	0.3056729441	0.6142198289
H	-0.5624643005	-2.3024211256	-0.4811484884
H	0.4432226778	-1.3032624552	0.5663994399
H	0.9250588197	-0.8476249981	-1.7269692169
H	-1.9345977678	0.1622790682	-2.0355484724
H	-1.2330661746	-1.242565678	-2.8527209634
H	-1.2013859643	0.8451704091	-4.294474214
H	0.4138004187	0.2278559378	-3.9900464373
H	0.3933094799	2.6879232193	-3.5986397381
H	-0.9846403491	2.517720782	-2.5129081237
H	0.8857512001	2.7554649631	-1.0907534195
H	2.3719795188	0.6121610745	-2.7080764755
H	2.8954852467	1.3061489832	-1.1654423422
H	2.7467066621	2.3328319034	-2.6029705823

calc_1a conf_19

C	-5.841627879	-0.1987831443	2.5892284915
C	-5.4803007121	1.1341051437	2.4399827648
C	-4.136546218	1.5124685478	2.2912999889
C	-3.1608589211	0.5375042062	2.2834755146
C	-3.5014001654	-0.8220443399	2.4111130429
C	-4.8571119479	-1.1888869135	2.5866110139
O	-5.2336278406	-2.4548479614	2.7499036395
O	-6.3926305738	2.1302521537	2.4367233846
C	-1.6968605418	0.8581572079	2.1970774685
C	-0.9413424688	-0.2440449391	1.4660947051
O	-1.2152238757	-1.5241523115	2.0777567416
C	-2.4784481091	-1.8608813309	2.3819115081
O	-2.7114164595	-3.0383254174	2.6359631258
C	-1.2199050234	-0.343193173	-0.0323416953
C	-0.6455735938	0.8107908717	-0.8693054476
C	0.8823650686	0.8183908079	-0.9811976109
C	1.3853105513	-0.2842229982	-1.9103424458
C	0.6612436893	-0.1961012716	-3.2513494166
C	-0.8507551636	-0.1954902131	-3.0477702025
O	-1.2407575973	0.8470811437	-2.1584612561
C	-1.6236181647	0.0346784137	-4.3312428802
H	-6.8771601453	-0.4971148397	2.7194303712
H	-3.8938395997	2.5639636248	2.1909053046
H	-4.4006998274	-2.9935708001	2.7699469322
H	-7.2758987162	1.7526487623	2.5413895055
H	-1.2882863843	0.9478532191	3.2117130062
H	-1.533581913	1.8213498283	1.7060469507
H	0.1307253853	-0.1188153741	1.633518704

H	-0.8160768681	-1.3034813844	-0.3667792679
H	-2.3012054357	-0.3711069765	-0.204909131
H	-0.9668133052	1.7556372295	-0.4170772547
H	1.3441380589	0.7377522273	0.0093531799
H	1.1813647169	1.7909159733	-1.3895567647
H	1.2125343282	-1.2705967551	-1.4613185225
H	2.4678792713	-0.1949091454	-2.0485769515
H	0.944152539	-1.028579554	-3.9054170715
H	0.9430419677	0.7328279467	-3.7638716208
H	-1.1479535193	-1.1682197112	-2.6234506016
H	-1.4013850899	-0.7496212985	-5.06050134
H	-1.355289726	1.0021926872	-4.7654991095
H	-2.6985597907	0.0344198581	-4.1344767536

calc_1a conf_20

C	-5.8224991423	-0.2662873471	2.5047814668
C	-5.4949338161	0.9962516178	2.0277402624
C	-4.1586447681	1.3714103267	1.8164549582
C	-3.1558697407	0.4612093921	2.0789298663
C	-3.4614021345	-0.8322648325	2.5419042062
C	-4.8105120217	-1.1893926705	2.7767974088
O	-5.1558275184	-2.3839539446	3.2505302608
O	-6.4350829205	1.9264230377	1.7506906334
C	-1.6986821384	0.7969840914	1.9461712391
C	-0.899046535	-0.4290493967	1.5256738066
O	-1.1492904679	-1.5216660971	2.4370311968
C	-2.4089861456	-1.8100399419	2.7975583763
O	-2.6165007842	-2.8889623658	3.3432091085
C	-1.1508990009	-0.9187084859	0.1026667852
C	-0.7433326412	0.0450974895	-1.0073980784
C	0.7394450608	0.411647889	-1.0048296368
C	1.0939698173	1.2252813358	-2.2490588125
C	0.6313578422	0.4886322283	-3.5043059
C	-0.8454562225	0.0977078276	-3.4110938421
O	-1.0943573553	-0.6240470209	-2.2080058045
C	-1.8060307103	1.270306718	-3.5905903138
H	-6.8525328035	-0.5579186355	2.6844377079
H	-3.942564549	2.3714873153	1.4588253466
H	-4.3089007885	-2.8708537067	3.4249174348
H	-7.3095093247	1.5581763331	1.9335934784
H	-1.3202697212	1.1447396399	2.9159398718
H	-1.5435323534	1.6127353962	1.2347159866
H	0.1659482541	-0.2328628131	1.6655160471
H	-2.212578397	-1.1526602768	-0.0267088279
H	-0.5989919023	-1.8541756481	-0.0356749457
H	-1.3346611758	0.9714777464	-0.9214045023
H	1.3263136173	-0.5158614974	-0.9864593742
H	0.991768669	0.975540097	-0.0990435827
H	2.1729254753	1.4071783284	-2.2915506409
H	0.617244381	2.2120917594	-2.1900006504
H	0.8010562566	1.0947328404	-4.4012132058
H	1.2214477555	-0.4283792148	-3.6168856542
H	-1.0649231149	-0.6344898889	-4.1948833576
H	-2.8348354499	0.9348406848	-3.4351672912
H	-1.7246412879	1.6691726279	-4.6063845523
H	-1.6081821973	2.0934490618	-2.8984264755

calc_1a conf_21

C	-5.8695402111	-0.1997215474	3.2145434085
C	-5.7512769287	1.0981961222	2.7334596497
C	-4.624316131	1.5049160121	2.0031784173
C	-3.6089986816	0.5987042017	1.7731338859
C	-3.6936004353	-0.7161210332	2.2676425543
C	-4.8501718641	-1.123091694	2.9749537106
O	-5.0031746974	-2.3659427309	3.4259758875
O	-6.7104841541	2.0291499821	2.935981009
C	-2.3898337737	0.9347353351	0.9632941518
C	-1.195708564	0.1584002931	1.4881190889
O	-1.4764433512	-1.2557101662	1.4927005816
C	-2.6248805554	-1.6826565651	2.0298517971
O	-2.7324507526	-2.8764241631	2.2954224361
C	0.1110205832	0.3631438099	0.7291486564
C	0.0327809098	0.4671819469	-0.7893327933
C	1.4224634663	0.6162165506	-1.4070093283
C	1.3392707303	0.5868255851	-2.9309827447
C	0.5866921829	-0.6642349093	-3.3785566251
C	-0.7708989636	-0.7843113665	-2.6818772397
O	-0.6219475384	-0.6935747897	-1.2662407266
C	-1.8198016378	0.1885371946	-3.2150065649
H	-6.7462441672	-0.5252615089	3.7657142498
H	-4.5755634027	2.5223197274	1.6325245261
H	-4.2127212531	-2.8759380653	3.1074233214
H	-7.4305324492	1.6356821218	3.4461799117
H	-2.1809744709	2.008602688	0.9952772856
H	-2.5570886729	0.6582031325	-0.0840056569
H	-1.0276926961	0.4404534016	2.5362736175
H	0.7778058909	-0.4618448178	1.0011885994
H	0.5744026239	1.2849531499	1.1000591965
H	-0.5566782549	1.3617840875	-1.0544287392
H	2.0484805968	-0.214361197	-1.0565087121
H	1.8860830084	1.5454905373	-1.0561172794
H	2.3422059517	0.6042818348	-3.3702663529
H	0.8284223735	1.4888539469	-3.290943878
H	0.4473119372	-0.6736373231	-4.4652931958
H	1.1821906475	-1.5481798153	-3.1218090481
H	-1.1523488533	-1.7993175981	-2.8305248082
H	-2.7571142532	0.0679301389	-2.6648596134
H	-2.0192872766	-0.0166402289	-4.2713186923
H	-1.5093569124	1.2344077197	-3.1369639438

calc_1a conf_22

C	-5.5704414552	0.1482927901	1.6128158626
C	-5.2346277469	1.4568986853	1.9354385566
C	-3.9179088812	1.8086117732	2.2671213414
C	-2.9402160523	0.8327441474	2.2592901192
C	-3.2492679948	-0.4946341883	1.9227814866
C	-4.5850650141	-0.8408920397	1.6091515287
O	-4.9426661917	-2.0866015221	1.3087841265
O	-6.151470946	2.4507859228	1.9531276032
C	-1.5258852258	1.1138962282	2.6742241541
C	-0.51519802	0.2040453574	1.9809940664
O	-0.9294348379	-1.1749283334	2.0204034031
C	-2.2146988672	-1.5199319438	1.8667758234
O	-2.4660248898	-2.712429649	1.7159818931
C	-0.0933132179	0.6159565013	0.568988925

C	-1.1662708349	0.6794678882	-0.526469378
C	-0.6524172109	1.3483528703	-1.8061806564
C	0.2948651659	0.4350501047	-2.5803922745
C	-0.3832602883	-0.9117860597	-2.8181608311
C	-0.8867372102	-1.5111332504	-1.5080152556
O	-1.7322867935	-0.5908394782	-0.8186392726
C	-1.7063557114	-2.7698238796	-1.712409705
H	-6.5889037754	-0.1334757566	1.3643539404
H	-3.6960666695	2.8368147685	2.5289764521
H	-4.1219750337	-2.6380396599	1.393345295
H	-7.0133922323	2.0895110477	1.708534045
H	-1.4452525087	0.9573816509	3.7575059564
H	-1.261588008	2.1596690322	2.4900908903
H	0.3976933926	0.1999415295	2.5831935308
H	0.3574889134	1.6124954902	0.6608435271
H	0.7186752227	-0.0520780316	0.2649847045
H	-2.0112373653	1.2646510003	-0.1502120192
H	-0.1757761199	2.3050898807	-1.5641745129
H	-1.5209171799	1.5727699201	-2.4363303088
H	1.2274660681	0.2880625548	-2.0205239155
H	0.5762435235	0.9001038458	-3.5312607359
H	0.3015485462	-1.6177068708	-3.3015434532
H	-1.2406897739	-0.777836682	-3.4904634874
H	-0.0211543193	-1.7541231319	-0.872282649
H	-2.5910788986	-2.5492265914	-2.3172688224
H	-2.0309966668	-3.1707169254	-0.7504326576
H	-1.1124048912	-3.530388996	-2.2279472963

calc_1a conf_23

C	-5.8153531164	-0.905058447	2.271835407
C	-5.7580109645	0.1913598777	1.4209133233
C	-4.5375083458	0.813473724	1.1150567706
C	-3.3726950571	0.3155667941	1.6632929163
C	-3.400773544	-0.8073597564	2.5116457839
C	-4.6406550628	-1.4075330937	2.8358336117
O	-4.7306165157	-2.4444868288	3.6652766558
O	-6.8656122051	0.7182879519	0.8526274522
C	-2.03114255	0.9491122473	1.4443900304
C	-0.9296270483	-0.0979429928	1.4447062371
O	-0.9914677909	-0.8759742439	2.6646625858
C	-2.171784451	-1.3502187765	3.0847004765
O	-2.1684605867	-2.2215679076	3.9497110479
C	-0.900345281	-1.0814962783	0.2724181961
C	-0.6402327485	-0.4629872253	-1.1090983538
C	-1.9026010596	-0.1416323857	-1.9076795971
C	-1.5353830357	0.5447740784	-3.2225184865
C	-0.6371091524	1.7496360429	-2.9499621774
C	0.5743925899	1.3697101343	-2.0953209734
O	0.1570552967	0.696185716	-0.9086812024
C	1.6432379673	0.5862625462	-2.8518654454
H	-6.7576656412	-1.380298544	2.5259914266
H	-4.5361859046	1.6799675986	0.4637726244
H	-3.8106299829	-2.6135730542	3.998683564
H	-7.6389161775	0.2152647498	1.1400168451
H	-1.832016968	1.6540061766	2.2622372501
H	-1.9887678852	1.5222747457	0.5169721813
H	0.0375555522	0.3991039162	1.501179726
H	-0.1070564921	-1.7974858833	0.5071466294

H	-1.8371066076	-1.6487812351	0.2384854844
H	-0.0670557174	-1.1989146247	-1.6945780843
H	-2.5661175205	0.5042574259	-1.321553159
H	-2.4525682217	-1.0711884266	-2.0937516259
H	-2.4376733702	0.85810904	-3.7578500639
H	-1.0212642268	-0.1700971175	-3.8776117069
H	-1.2137639821	2.5097089438	-2.4089849424
H	-0.3004112846	2.2092689438	-3.8858736645
H	1.0389352598	2.2860670838	-1.7168866618
H	2.0777165001	1.2106871917	-3.6384325372
H	1.2526366364	-0.3172581925	-3.3276237567
H	2.4430486956	0.2917700852	-2.1672837874

calc_1a conf_24

C	-5.9792167008	-0.7194278962	3.3468630007
C	-6.2107189118	0.5458894058	2.8218163626
C	-5.2654057462	1.1771502779	1.9988959048
C	-4.0777394905	0.5327889793	1.7188440648
C	-3.8088662167	-0.7413464428	2.2553796434
C	-4.7847328884	-1.3809654497	3.0585682217
O	-4.6042441564	-2.6023860332	3.5553536237
O	-7.3500835578	1.2284603928	3.067969247
C	-3.035216657	1.1261921761	0.8135518385
C	-1.6515227337	0.6622939547	1.2415051303
O	-1.5908844085	-0.7774579807	1.3137024253
C	-2.5620366301	-1.4382140346	1.963117594
O	-2.3560366002	-2.6084360836	2.2673321665
C	-0.4904056578	1.1257853984	0.3657541965
C	-0.1405464005	0.279276469	-0.8582578547
C	-1.2311319139	0.1385054395	-1.9152808192
C	-0.6826310819	-0.5721934792	-3.1527833546
C	0.5792810596	0.1287292629	-3.648596838
C	1.601850118	0.2991124949	-2.5223897787
O	1.0005658813	0.9357094086	-1.399152485
C	2.3175825164	-0.9932705527	-2.1383138841
H	-6.7126280318	-1.2206646646	3.9706272091
H	-5.4886016026	2.1593179216	1.5984918667
H	-3.7383515745	-2.9263661416	3.1960740619
H	-7.9192995463	0.7004886761	3.6432701656
H	-3.0696171183	2.2192822028	0.8493239916
H	-3.2349851712	0.8355239395	-0.2236290088
H	-1.484002271	1.033936584	2.2606762776
H	-0.6879179564	2.1529126433	0.0378647438
H	0.4180563466	1.1658946181	0.9738117743
H	0.1355783838	-0.7253669682	-0.5099168826
H	-1.5951403698	1.1372900217	-2.1909645294
H	-2.0732801226	-0.4274887808	-1.5048644088
H	-1.4389966855	-0.5973759911	-3.9443327778
H	-0.4634118431	-1.6176065744	-2.9026091294
H	0.3116726138	1.1247025784	-4.0214421738
H	1.0312604921	-0.4179533847	-4.4838958103
H	2.3626497218	1.0177855332	-2.844964136
H	2.9813542745	-0.8115435948	-1.2888165388
H	2.9233470176	-1.3504607146	-2.9769335079
H	1.62845362	-1.7965036111	-1.8636495924

calc_1a conf_25

C	-5.68044338	-0.4532429345	2.2736636696
C	-5.5480286316	0.8250336917	2.8004363497
C	-4.2894487515	1.4316522988	2.9319453106
C	-3.1648945766	0.7457578627	2.5189520017
C	-3.2736124414	-0.5424249857	1.9627671609
C	-4.5450752368	-1.1537121247	1.8607988164
O	-4.7013887219	-2.3857614718	1.3817377183
O	-6.6140155437	1.5454838309	3.2162236229
C	-1.7768167134	1.3018722149	2.6737671881
C	-0.8770814493	0.7967885583	1.5531056806
O	-0.9107328955	-0.6423394063	1.5068997218
C	-2.0916802617	-1.2759116064	1.5193195708
O	-2.1172333825	-2.4588192212	1.1988481451
C	-1.2185040546	1.4351204079	0.2041939693
C	-0.6320835718	0.7779589098	-1.0433813744
C	0.8439487523	0.3995185775	-0.9443236081
C	1.2815812196	-0.3350293802	-2.2099205203
C	0.3561347944	-1.5266985445	-2.4494028156
C	-1.114461144	-1.102782469	-2.4730154276
O	-1.4462484479	-0.3513382341	-1.3092400126
C	-1.5252332604	-0.3760788375	-3.7514327005
H	-6.6490838141	-0.9347132374	2.1827320235
H	-4.2262411451	2.4257621393	3.359349733
H	-3.788409127	-2.7310656307	1.2010749564
H	-7.4188516332	1.0297523803	3.075477754
H	-1.3618810256	0.9807437209	3.6375692481
H	-1.7901797284	2.3959973947	2.6785397155
H	0.166402709	1.0072991872	1.7980465973
H	-0.8737675126	2.4752131794	0.2540362624
H	-2.3044089825	1.4665195038	0.0682538038
H	-0.7414414707	1.5051589533	-1.8660143883
H	0.987953495	-0.2591026198	-0.0816817739
H	1.4460324215	1.3025668766	-0.7851329788
H	2.3188772977	-0.6736004484	-2.1168992169
H	1.2545275117	0.3503059603	-3.0670073075
H	0.6069683795	-2.0396541937	-3.384642764
H	0.4881399889	-2.2483700593	-1.6353844605
H	-1.7365251741	-1.998299395	-2.3806233893
H	-0.9136016609	0.5079218438	-3.9530556563
H	-2.5686650026	-0.0578526052	-3.678750321
H	-1.4295278282	-1.0456300873	-4.6118303045

calc_1a conf_26

C	-5.4276304476	0.0479316898	1.3697794818
C	-5.1186574388	1.3877192406	1.5706642129
C	-3.836734173	1.7834389604	1.9778173302
C	-2.8653372106	0.820193832	2.173917798
C	-3.1428572909	-0.5384098105	1.9534833261
C	-4.4476313557	-0.9258046545	1.5671525989
O	-4.7739218738	-2.2017414873	1.3635851577
O	-6.0306822251	2.3700500968	1.39250661
C	-1.5065523776	1.1574962024	2.7121951104
C	-0.4304203024	0.1652447773	2.2790476493
O	-0.8666378422	-1.1972518725	2.4331665221
C	-2.1180987688	-1.5635032746	2.1384528601
O	-2.3655365848	-2.7636532059	2.0797377522
C	0.1903519473	0.4040875044	0.9029286517
C	-0.668701723	0.3234613341	-0.3568689517

C	0.0817380405	0.9409672784	-1.539017758
C	-0.6310290238	0.6586535808	-2.8571716061
C	-0.8557121972	-0.8438976373	-2.9925937961
C	-1.6005906597	-1.406183706	-1.7806705811
O	-0.9340912045	-1.0543928721	-0.5668101247
C	-3.0824040557	-1.0472427905	-1.7574608351
H	-6.4206298284	-0.2685388338	1.0660058801
H	-3.6381409146	2.8356416757	2.1466178862
H	-3.965395224	-2.7320749958	1.5997408257
H	-6.8705941887	1.9762084159	1.1223701343
H	-1.5633648708	1.1511821171	3.8082635323
H	-1.2078392518	2.1695182971	2.4222467186
H	0.3940862413	0.2365572351	2.993883564
H	1.0063016247	-0.3158735601	0.7771360032
H	0.6496862475	1.400029717	0.9453361518
H	-1.6127026285	0.8727712995	-0.2151144622
H	1.0922932701	0.5122482237	-1.5722997774
H	0.1917224399	2.0190990489	-1.3735793489
H	-0.041618796	1.03658795	-3.6992729112
H	-1.5897854454	1.1916009322	-2.8836977229
H	-1.4106209874	-1.081752204	-3.9066739691
H	0.1174259754	-1.3442726165	-3.0653509564
H	-1.5222288219	-2.4976887377	-1.7994802641
H	-3.5588882705	-1.3732781557	-2.6876902737
H	-3.2551731624	0.0278555582	-1.6550632104
H	-3.5813966411	-1.5529845527	-0.9292192084

calc_la conf_27

C	-5.5098594803	-0.2213091951	1.4827671242
C	-5.2544179095	1.1428858401	1.5453841515
C	-3.9865838125	1.630095684	1.8967073734
C	-2.9720468988	0.7338743277	2.1730889227
C	-3.2010056159	-0.6510653808	2.1061496358
C	-4.4917367573	-1.1311279824	1.7729539389
O	-4.7733609347	-2.4302604908	1.7224010454
O	-6.2052423695	2.0651909762	1.2799040183
C	-1.6139421406	1.1832581144	2.628412193
C	-0.5032775295	0.1904732567	2.2923994875
O	-0.8920830366	-1.166660292	2.5973721763
C	-2.1373153588	-1.6083756758	2.3911737085
O	-2.3335392286	-2.817793143	2.4663798909
C	0.126192383	0.2454001863	0.9006982848
C	-0.7419928577	0.0301155522	-0.3393271181
C	-1.3921126716	1.3002729008	-0.8824582952
C	-2.1000030648	1.0151244902	-2.2057176093
C	-1.1298520343	0.3554649064	-3.1830270386
C	-0.4424387225	-0.8600842533	-2.5557430568
O	0.1497132757	-0.5111518948	-1.3073943456
C	-1.3440595836	-2.0870699496	-2.4430353625
H	-6.4913869411	-0.6062302655	1.2245476197
H	-3.8306209602	2.701551305	1.9500138995
H	-3.9470563519	-2.9052023015	2.0027668109
H	-7.0309821083	1.6156083489	1.0568868385
H	-1.6459072843	1.3080201506	3.7183378877
H	-1.3625642968	2.1625687913	2.2103923558
H	0.3172147939	0.3668214476	2.9926506205
H	0.8914347268	-0.5365315276	0.880698236
H	0.6568997752	1.2017450837	0.8111891571

H	-1.5275683669	-0.7068844198	-0.1168451074
H	-0.6014826184	2.0458062265	-1.0410315994
H	-2.097233413	1.711751426	-0.1543818085
H	-2.497885376	1.9415040276	-2.6335152338
H	-2.9638027597	0.3633718597	-2.0247185378
H	-1.6393286161	0.0595954021	-4.1070410725
H	-0.3559364524	1.0815157561	-3.459540653
H	0.4173850785	-1.1355980961	-3.1753490988
H	-2.2754814009	-1.8867970061	-1.90610862
H	-0.8170255689	-2.8886172906	-1.9187990264
H	-1.6117075109	-2.4472568953	-3.4412417928

Table S28. Sampled and DFT geometry optimized conformers related to calc_1b, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_1b conf_1	-997.7082456	19.24%	-997.9430329	22.99%	-997.9016822	22.15%
calc_1b conf_2	-997.7082366	19.06%	-997.9426204	14.85%	-997.9010254	11.05%
calc_1b conf_3	-997.7080968	16.44%	-997.9428186	18.32%	-997.9017245	23.16%
calc_1b conf_4	-997.7075007	8.74%	-997.9415396	4.73%	-997.9000598	3.97%
calc_1b conf_5	-997.7072530	6.73%	-997.9418359	6.47%	-997.9003408	5.35%
calc_1b conf_6	-997.7072304	6.57%	-997.9422580	10.12%	-997.9012476	13.98%
calc_1b conf_7	-997.7069103	4.68%	-997.9416668	5.41%	-997.8997560	2.88%
calc_1b conf_8	-997.7068459	4.37%	-997.9414214	4.17%	-997.8997007	2.72%
calc_1b conf_9	-997.7066271	3.47%	-997.9406073	1.76%	-997.8995792	2.39%
calc_1b conf_10	-997.7064987	3.03%	-997.9413636	3.92%	-997.9004836	6.22%
calc_1b conf_11	-997.7064751	2.95%	-997.9409618	2.56%	-997.8994905	2.17%
calc_1b conf_12	-997.7056865	1.28%	-997.9399959	0.92%	-997.8980080	0.45%
calc_1b conf_13	-997.7052806	0.83%	-997.9402889	1.26%	-997.8986986	0.94%
calc_1b conf_14	-997.7045734	0.39%	-997.9389238	0.30%	-997.8970238	0.16%
calc_1b conf_15	-997.7045361	0.38%	-997.9385410	0.20%	-997.8965329	0.09%
calc_1b conf_16	-997.7044740	0.35%	-997.9390994	0.36%	-997.8978334	0.38%
calc_1b conf_17	-997.7043919	0.32%	-997.9389223	0.30%	-997.8977294	0.34%
calc_1b conf_18	-997.7043755	0.32%	-997.9392081	0.40%	-997.8978188	0.37%
calc_1b conf_19	-997.7041880	0.26%	-997.9384613	0.18%	-997.8968367	0.13%
calc_1b conf_20	-997.7035032	0.13%	-997.9385881	0.21%	-997.8976405	0.31%
calc_1b conf_21	-997.7034597	0.12%	-997.9377278	0.08%	-997.8974459	0.25%
calc_1b conf_22	-997.7030853	0.08%	-997.9380240	0.11%	-997.8967727	0.12%
calc_1b conf_23	-997.7029295	0.07%	-997.9378796	0.10%	-997.8969067	0.14%
calc_1b conf_24	-997.7027131	0.05%	-997.9376709	0.08%	-997.8968085	0.13%
calc_1b conf_25	-997.7023620	0.04%	-997.9373878	0.06%	-997.8955501	0.03%
calc_1b conf_26	-997.7023246	0.04%	-997.9373578	0.06%	-997.8963432	0.08%
calc_1b conf_27	-997.7018829	0.02%	-997.9369733	0.04%	-997.8941580	0.01%

calc_1b conf_28	-997.7011556	0.01%	-997.9360458	0.01%	-997.8944661	0.01%
calc_1b conf_29	-997.7011477	0.01%	-997.9361415	0.02%	-997.8947181	0.01%
calc_1b conf_30	-997.7009035	0.01%	-997.9359564	0.01%	-997.8943459	0.01%
calc_1b conf_31	-997.6997696	0.00%	-997.9345213	0.00%	-997.8926399	0.00%
calc_1b conf_32	-997.6993183	0.00%	-997.9344931	0.00%	-997.8923420	0.00%
calc_1b conf_33	-997.6991047	0.00%	-997.9343415	0.00%	-997.8923284	0.00%

Table S29. Cartesian coordinates of the optimized geometries for the conformers related to calc_1b. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S28.

calc_1b conf_1

C	-7.4862612556	-1.2758579582	-0.3769165576
C	-7.1823774215	-0.017648539	-0.8819287549
C	-5.9783307725	0.6260274706	-0.5581920551
C	-5.0746634381	-0.0103853821	0.2681769084
C	-5.3490086987	-1.2939938063	0.7769069794
C	-6.5805616351	-1.9203705952	0.4668597494
O	-6.9105385857	-3.1142731991	0.954529194
O	-8.0251622235	0.650075487	-1.7003736322
C	-3.7833178698	0.6319165625	0.6909127599
C	-2.7218160544	-0.4281933726	0.919217264
O	-3.1928143206	-1.4347005492	1.8417599496
C	-4.4054086653	-1.9748342259	1.6558125642
O	-4.6700866987	-3.0154227878	2.2501277223
C	-1.4225460226	0.0834829537	1.5183882456
C	-0.7388889097	1.159627862	0.6676232164
C	0.6548360216	1.5307483884	1.1806494653
C	1.6915760892	0.4639133764	0.8333349458
C	1.6264955337	0.146996986	-0.6587818107
C	0.2034881525	-0.2196199188	-1.0673571878
O	-0.7063020315	0.8186817493	-0.7130068423
C	0.0472887211	-0.4287440908	-2.5603699455
H	-8.4224335713	-1.7731168843	-0.6106126284
H	-5.7820352982	1.6115268258	-0.9643004927
H	-6.1776260189	-3.376778165	1.5698711867
H	-8.8127342479	0.111410555	-1.8528019778
H	-3.4354523692	1.3299662559	-0.0748022623
H	-3.9372197348	1.2025810471	1.61724611
H	-2.5185117914	-0.930064206	-0.0334808083
H	-1.632298266	0.5028391382	2.5093942351
H	-0.767286442	-0.7779632292	1.6822045716
H	-1.3644240536	2.0582701397	0.6957271171
H	0.6160421142	1.7075955037	2.2613360667
H	0.94686071	2.4765912787	0.7096842994
H	1.5076734018	-0.4505885355	1.4113081966
H	2.6927797581	0.8080979956	1.11281811
H	2.3053318703	-0.6739540877	-0.9156105893
H	1.9388744515	1.024089345	-1.2401662897
H	-0.0809453327	-1.148161503	-0.5442932754
H	0.3145149308	0.4847481132	-3.099483949
H	-0.9873330576	-0.6805013823	-2.8072541843
H	0.694623032	-1.2400146159	-2.905155614

calc_1b conf_2

C	-7.6455820726	-0.8334521337	0.0468593176
C	-7.2103107966	-0.7227126526	-1.268180886
C	-5.8443633544	-0.73689791	-1.58788376
C	-4.9157119853	-0.8781456406	-0.5764537345
C	-5.3316786328	-1.0131976675	0.7625865814
C	-6.711907538	-0.9646585681	1.075545581
O	-7.1577995716	-1.0412482894	2.3278700503
O	-8.0729511872	-0.5905741736	-2.3002095653
C	-3.4360043722	-0.8570135486	-0.8301230265

C	-2.73054578	-1.7413052392	0.1827118024
O	-3.0715669874	-1.3433688739	1.5288101463
C	-4.3626059732	-1.1561293366	1.8423578885
O	-4.6639401875	-1.1041170545	3.030855802
C	-1.2100897095	-1.7652104003	0.1188169023
C	-0.4933904122	-0.4558328407	0.4230096574
C	0.9980804176	-0.6782860138	0.6656548276
C	1.7246396529	0.655133998	0.8255951025
C	1.4135279072	1.5618216193	-0.3632874521
C	-0.0943719622	1.696557693	-0.5859798927
O	-0.6973955093	0.4069833315	-0.6905619732
C	-0.7899348884	2.5816168825	0.4448668029
H	-8.7002064216	-0.8062753764	0.302457433
H	-5.5448720097	-0.6341687288	-2.6244814294
H	-6.3544267544	-1.0664334379	2.9092559018
H	-8.9772287364	-0.5948242476	-1.9598208917
H	-3.2051242624	-1.2070399501	-1.8404301913
H	-3.0448374839	0.1626282792	-0.7571094336
H	-3.0948802959	-2.7700597565	0.0582349223
H	-0.8656966407	-2.5159180149	0.8383872353
H	-0.9077108546	-2.1080656491	-0.877225172
H	-0.9395448235	-0.0137016239	1.3255117
H	1.4137776358	-1.2257339138	-0.1907104725
H	1.1352048471	-1.3062202198	1.5531116471
H	2.8049147802	0.4958068277	0.9082521209
H	1.4106681273	1.1342296389	1.7612721964
H	1.8554518311	1.1277367699	-1.268065904
H	1.8593838673	2.5538636771	-0.2303103483
H	-0.2651447408	2.1370768542	-1.5738098336
H	-0.6314596004	2.2441342899	1.4724912774
H	-1.8671762878	2.6028602003	0.2588233021
H	-0.4121892339	3.6061412003	0.3723057683

calc_1b conf_3

C	-7.5365478045	-1.2026820033	-0.4196827823
C	-7.0519101815	-0.0779044448	-1.0755216093
C	-5.7919360579	0.4576302232	-0.76886179
C	-5.0154810511	-0.1546565342	0.1942009745
C	-5.474538399	-1.3068793135	0.8594677661
C	-6.7603835309	-1.819513578	0.5629174393
O	-7.2625784065	-2.8796201181	1.1919433745
O	-7.7642899893	0.558626108	-2.0317609464
C	-3.6723706015	0.3793544256	0.6054172497
C	-2.7675155235	-0.7598504465	1.0377162623
O	-3.4052070596	-1.54646078	2.0687023941
C	-4.6667313823	-1.957865255	1.8853625041
O	-5.0922337437	-2.8570677689	2.6040740256
C	-1.4355641256	-0.3322285762	1.6309232941
C	-0.5485354205	0.4433364038	0.6679084888
C	0.8201435022	0.7542942999	1.2668042028
C	1.7209052271	1.4111803678	0.2234106454
C	1.7737068609	0.5417231529	-1.0316626444
C	0.3716309679	0.2039696508	-1.5453757604
O	-0.426159303	-0.3522841291	-0.5015293993
C	-0.3253205061	1.3710264265	-2.2392459909
H	-8.5169553751	-1.6129850926	-0.6404707422
H	-5.4540860233	1.3430821539	-1.2948767526
H	-6.5979869287	-3.1337534091	1.8839737194

H	-8.6059879029	0.1010466979	-2.157213588
H	-3.2069358258	0.9213449962	-0.2220618851
H	-3.7914860969	1.0877564104	1.4369262704
H	-2.5881720671	-1.4209906309	0.1840733357
H	-1.6183627359	0.2772408564	2.5234254585
H	-0.908357991	-1.2349051571	1.9569816664
H	-1.0380238982	1.3988612625	0.4152205776
H	1.2722850616	-0.1858183663	1.6071903731
H	0.7012640784	1.3973592186	2.1462039387
H	2.7291197948	1.5585013473	0.6242791908
H	1.336097969	2.4097350611	-0.0197422804
H	2.2861351517	-0.3974120653	-0.7921230422
H	2.3498212768	1.0297732115	-1.8256175929
H	0.4506881565	-0.6144811481	-2.2680892539
H	0.2279931942	1.6574555782	-3.1387797585
H	-0.4011425782	2.2580741182	-1.6041964049
H	-1.3349907316	1.0779868466	-2.5403109284

calc_lb conf_4

C	-7.6347482852	-0.9970501824	-0.0129540801
C	-7.1438201099	-0.4741826556	-1.203040416
C	-5.7686350624	-0.279259466	-1.4014178162
C	-4.8862644622	-0.6262554714	-0.3984858924
C	-5.3565567159	-1.1769206691	0.809608557
C	-6.7489873675	-1.3395164641	1.0095745647
O	-7.2508404475	-1.8134627616	2.1479983941
O	-7.9583598876	-0.1234705307	-2.222784462
C	-3.4050220516	-0.4079070735	-0.5145558867
C	-2.6663423138	-1.4840242999	0.2618810248
O	-3.1181668844	-1.5168923779	1.6330282554
C	-4.4370217333	-1.5418388808	1.8805832471
O	-4.8049489656	-1.863585326	3.0058148323
C	-1.1507118141	-1.3546756531	0.3196635081
C	-0.6244462848	-0.0871160661	1.0069327275
C	0.8500811546	-0.1893556516	1.4044078872
C	1.7714688989	-0.0628242283	0.1938574569
C	1.4333261868	1.2157669016	-0.5686991107
C	-0.0512758669	1.259663547	-0.9177038351
O	-0.8566613164	1.0953076839	0.243806843
C	-0.472498603	2.5756724202	-1.5422040298
H	-8.6985007069	-1.1352455015	0.1531701298
H	-5.4267298067	0.14391407	-2.3388503768
H	-6.4822424568	-1.9366491898	2.7627847612
H	-8.874541868	-0.3011603005	-1.9723797047
H	-3.0887857638	-0.4342691963	-1.5620754514
H	-3.1277438448	0.5773882986	-0.1247855207
H	-2.9143063219	-2.4615330987	-0.1734830727
H	-0.7759615339	-2.2236748203	0.8718112088
H	-0.7614836134	-1.4458146434	-0.6998706789
H	-1.2200561462	0.0615892831	1.9121537134
H	1.0260293404	-1.1256156179	1.9447295071
H	1.0671976057	0.628303041	2.1017358529
H	1.6535299439	-0.9311492559	-0.467790274
H	2.8191737007	-0.0570472484	0.5122633979
H	2.0268145043	1.2975775446	-1.4863939719
H	1.6698140321	2.0895301652	0.0521576325
H	-0.2626535205	0.445245908	-1.63130988
H	0.0873513804	2.7616399668	-2.4633223685

H	-0.2850264254	3.3992652902	-0.8472230931
H	-1.5394465675	2.5666325107	-1.7796335802

calc_1b conf_5

C	-7.5032824587	-1.7218929886	-0.2114660432
C	-7.6332800334	-0.4115023576	-0.6545691829
C	-6.6242154968	0.5374322855	-0.4298474466
C	-5.4759030653	0.1557692196	0.233536374
C	-5.3106733912	-1.1705086829	0.6756977972
C	-6.3484678483	-2.1111375305	0.4687504384
O	-6.2635200411	-3.3664917525	0.9033288807
O	-8.7311638531	0.0172329262	-1.3154287866
C	-4.3673611717	1.1204805427	0.5460080788
C	-3.0294017432	0.4012574315	0.5656911701
O	-3.0857632046	-0.7190272708	1.4787209743
C	-4.1074135771	-1.5825338856	1.3880760249
O	-3.9868242099	-2.6774076215	1.9294922835
C	-1.8821217805	1.2916390758	1.0144046124
C	-0.4828123025	0.8096166822	0.6381780275
C	-0.0323843148	-0.4922015845	1.2944021212
C	1.3452815728	-0.886894359	0.7672386291
C	1.3119705441	-0.9488524955	-0.7591968621
C	0.7708003247	0.3473697606	-1.3672043874
O	-0.4793875664	0.700783796	-0.7787941313
C	1.7633705352	1.5064491404	-1.3290712342
H	-8.2865203703	-2.4569255031	-0.3681234081
H	-6.7680539041	1.5523257027	-0.7820666718
H	-5.4108651252	-3.430697112	1.4066980825
H	-9.350412216	-0.7181357567	-1.412612244
H	-4.3367737617	1.9270875971	-0.192128096
H	-4.5431574028	1.5849109634	1.5261929935
H	-2.8121681232	0.0013931198	-0.4306352156
H	-2.0231024745	2.2715417685	0.545099837
H	-1.9462590966	1.4358277052	2.0985236261
H	0.2175421311	1.6041645205	0.9450204753
H	-0.7568244298	-1.2819445912	1.0753297724
H	-0.0185571246	-0.3674705163	2.3829097265
H	1.6496602754	-1.8554832073	1.177113117
H	2.0953949836	-0.1590195599	1.1033487001
H	0.6548551603	-1.7716523287	-1.0648422885
H	2.3057547414	-1.1608909089	-1.1693688247
H	0.5159316898	0.1631109021	-2.4161657376
H	1.2939492964	2.4114953373	-1.7241118466
H	2.6354842579	1.2744011185	-1.9480880682
H	2.1246745746	1.7233804176	-0.3200412674

calc_1b conf_6

C	-7.7837670923	-1.6172330331	0.003169464
C	-7.9071750404	-0.3050508298	-0.436195352
C	-6.8293811186	0.5914364652	-0.3665504127
C	-5.6214552088	0.1540774911	0.136483536
C	-5.4633565537	-1.1767161885	0.5695764659
C	-6.5672317946	-2.0623232421	0.5228657157
O	-6.4881295942	-3.3172001412	0.9591152483
O	-9.0623639094	0.1762639573	-0.9447177244
C	-4.4310408819	1.0588510292	0.2819101822
C	-3.1486827449	0.2646012099	0.1053685781

O	-3.1196205753	-0.8492237214	1.0230279745
C	-4.1931015003	-1.6507461331	1.1058019363
O	-4.0546110821	-2.7444879993	1.6434921989
C	-1.8972134465	1.080313695	0.3624934955
C	-0.5850335926	0.3146151098	0.2310536164
C	-0.327031548	-0.2468149651	-1.1645509882
C	1.0779674519	-0.842152918	-1.2466341463
C	2.1085866106	0.1855412266	-0.7844707724
C	1.7510168876	0.7603776528	0.5887428484
O	0.4159598987	1.2581391547	0.5873034253
C	2.0056369276	-0.20173995	1.7459418449
H	-8.6178505529	-2.3109569266	-0.0326260589
H	-6.9694318365	1.6105974455	-0.7077801605
H	-5.5789248752	-3.4245297283	1.3409083139
H	-9.7270275842	-0.5251210372	-0.9430542937
H	-4.4645953875	1.870743239	-0.4504420439
H	-4.4324875305	1.5211634496	1.2780576296
H	-3.13121328	-0.1555531454	-0.9083670738
H	-1.8820096687	1.9230109587	-0.3387527975
H	-1.9437381809	1.5031096418	1.3717939433
H	-0.5937494532	-0.5158256983	0.9508892253
H	-0.4278325489	0.5667925458	-1.8955469772
H	-1.0759086121	-1.0080720904	-1.409754232
H	1.2972643007	-1.1660198145	-2.2695268356
H	1.1298325336	-1.7412727017	-0.6203560622
H	2.1349574025	1.0121998485	-1.5045476255
H	3.1139159495	-0.2497188867	-0.756406234
H	2.3564301333	1.6564539945	0.7615121046
H	1.6733311591	0.2507574782	2.684061376
H	3.0757966976	-0.4155499793	1.8280418024
H	1.4862692419	-1.1567364633	1.6286688655

calc_1b conf_7

C	-7.3937360349	-0.2741995704	0.6991464761
C	-7.0559208475	0.3183817752	-0.5108388602
C	-5.8219193931	0.0611354751	-1.1291729982
C	-4.9257388203	-0.7885332994	-0.5139011968
C	-5.233730378	-1.3835757689	0.7245987767
C	-6.4923713321	-1.1392896149	1.3233560848
O	-6.8527521841	-1.7056919731	2.4725810165
O	-7.891373982	1.1620138594	-1.1561120058
C	-3.6101749577	-1.1708326321	-1.1271664835
C	-2.5613353761	-1.391671596	-0.0478952845
O	-3.0344314008	-2.3627454639	0.9132245231
C	-4.2791117486	-2.2581237226	1.399471573
O	-4.564395526	-2.9154458768	2.396027907
C	-2.1184001209	-0.1366955316	0.6992057087
C	-1.4086407923	0.8858116266	-0.195397917
C	-0.8342417033	2.0684453021	0.58921169
C	0.4399948391	1.6872814864	1.3393935578
C	1.4248175586	1.0297569075	0.3758438393
C	0.7672465759	-0.1376141186	-0.3527627388
O	-0.4186479697	0.2848269389	-1.0222111669
C	1.6573782609	-0.7509115625	-1.4155025067
H	-8.3523642707	-0.0923695758	1.1748244154
H	-5.6023094846	0.5283989556	-2.0821940915
H	-6.1117316817	-2.3151488691	2.7270419863
H	-8.7041935185	1.258648001	-0.6426069492

H	-3.73287376	-2.1062379263	-1.6878669915
H	-3.2621152377	-0.4213198047	-1.8420559614
H	-1.6856370257	-1.8689071797	-0.4890969269
H	-2.9877452298	0.3503225172	1.1554558658
H	-1.4734895091	-0.4581322862	1.5232926988
H	-2.1411501593	1.2758704226	-0.9101812028
H	-1.5944697848	2.4623867364	1.2727626065
H	-0.5994184707	2.8651985349	-0.1261668445
H	0.2093090092	0.9956530379	2.1594759178
H	0.8845864173	2.5749651165	1.801241354
H	2.3157451854	0.6747145115	0.9059018385
H	1.7586498127	1.7615509216	-0.3711781958
H	0.5116885126	-0.9119478089	0.3898458775
H	2.581717888	-1.1303815061	-0.9708810301
H	1.9142853897	-0.0022227046	-2.170491544
H	1.1470012505	-1.5783637341	-1.9152228178

calc_lb conf_8

C	-7.2849970551	-0.1201415231	0.3710432166
C	-6.7125644842	0.3182212859	-0.8161153761
C	-5.4354594878	-0.1099870577	-1.2114190385
C	-4.7343358129	-0.9751615749	-0.3964289338
C	-5.281858463	-1.4162362881	0.8231568855
C	-6.5817432519	-0.9999145932	1.1968531961
O	-7.164568614	-1.4165191755	2.3184065196
O	-7.3513464363	1.1683849596	-1.6506074601
C	-3.3908472857	-1.534814745	-0.7640229323
C	-2.5412040474	-1.754426208	0.4777895261
O	-3.2537481642	-2.5787595496	1.4284013154
C	-4.5364030091	-2.3097706387	1.7056690925
O	-5.0355828802	-2.8391244943	2.6944008746
C	-2.0762064811	-0.485050262	1.1879274501
C	-1.1725344545	0.399549007	0.3405030703
C	-0.6093872571	1.5788535902	1.1286649555
C	0.3869902495	2.3594156663	0.2744372153
C	1.4524426886	1.4099008503	-0.270060833
C	0.8282976689	0.21029312	-0.9875568148
O	-0.1313874249	-0.4325873425	-0.1500971647
C	0.2549403526	0.5461505321	-2.3616209183
H	-8.2784644484	0.1947140472	0.6748160149
H	-5.0305336187	0.2400794962	-2.1539573549
H	-6.5374059048	-2.0650299944	2.7332230967
H	-8.2159989341	1.3871421337	-1.2789312528
H	-3.5287241588	-2.501109004	-1.2658972562
H	-2.8635637381	-0.8871697041	-1.4688030627
H	-1.6646781383	-2.3482039331	0.2210252643
H	-2.9420825726	0.1036988848	1.5104958286
H	-1.5350514575	-0.7930342954	2.0887603466
H	-1.7550290815	0.8006014179	-0.5054319419
H	-0.1062797637	1.1917712856	2.0237822254
H	-1.4298844821	2.222052017	1.4660678186
H	0.8549684601	3.1565236349	0.8614003077
H	-0.1423565877	2.8530549674	-0.5504433283
H	2.0531261894	1.0332978685	0.5661955693
H	2.1363876127	1.9314131613	-0.9487654353
H	1.5989096784	-0.5549774884	-1.1257683979
H	1.0552565718	0.8710202711	-3.0334105141
H	-0.4898892997	1.3462386792	-2.3273050711

H -0.2152026767 -0.340359004 -2.7963767031

calc_1b conf_9

C -7.5543445892 -1.5259585858 0.1698284815
C -7.7575476651 -0.1942377181 -0.1699603358
C -6.7045187844 0.7332936403 -0.1454956796
C -5.4410396619 0.3088478876 0.2116743267
C -5.2045634339 -1.0390161961 0.5430350222
C -6.2808899406 -1.95865473 0.542556015
O -6.1227525604 -3.2340476259 0.8886545293
O -8.9701013076 0.276875577 -0.5348785022
C -4.2682115369 1.2453978673 0.2915859801
C -2.9814722379 0.5053450585 -0.0338272925
O -2.8489513616 -0.6427803223 0.8298094499
C -3.8774576801 -1.4943285844 0.9391436878
O -3.6552667669 -2.613361138 1.3917896534
C -1.7272783071 1.347150012 0.1524214972
C -0.5409263733 0.8873969164 -0.7089135752
C 0.7405237715 1.6821038019 -0.4369471383
C 1.4250545976 1.2327220359 0.8532098255
C 1.5993520597 -0.284733749 0.8457464038
C 0.2597503692 -0.9675317573 0.592793216
O -0.3080612161 -0.5054933522 -0.632820411
C 0.3536737183 -2.4741524824 0.4716077563
H -8.367443123 -2.2450722653 0.167687592
H -6.9061765015 1.7653715052 -0.4081741438
H -5.1781264198 -3.3318801985 1.1750572802
H -9.6100465626 -0.4469628265 -0.5189613907
H -4.3948658877 2.084000352 -0.3996414698
H -4.1942683861 1.6683693772 1.3028139348
H -3.0303752278 0.1267281414 -1.062742621
H -1.9557182443 2.3824477743 -0.1284196938
H -1.4823246914 1.3629071192 1.2196317822
H -0.8316635743 1.0449441912 -1.7550111533
H 0.5199071927 2.7558343076 -0.4148685576
H 1.4241209341 1.5128436061 -1.2770763757
H 0.8246074202 1.5254644137 1.7244857631
H 2.3911473513 1.7373651462 0.9610191396
H 2.0165745816 -0.6338148692 1.7971263315
H 2.3005947344 -0.577819055 0.053666588
H -0.4235542437 -0.7258973591 1.4188859203
H 0.7963444838 -2.9042014246 1.3748210108
H 0.9735652589 -2.7491951669 -0.3871981804
H -0.643270188 -2.900269324 0.3388853336

calc_1b conf_10

C -7.823636073 -1.5479135926 0.0553008187
C -7.7432769478 -0.4308121699 -0.7666366645
C -6.5723804295 0.3402380919 -0.8360265882
C -5.4778723093 -0.0287096411 -0.0814954463
C -5.5258127262 -1.1681243563 0.7444777395
C -6.7228950709 -1.9195878641 0.8289475794
O -6.8399213785 -2.9790527936 1.6255974173
O -8.7797986512 -0.0264843814 -1.5326213417
C -4.2015823443 0.7636643637 -0.0680182628
C -3.0166162517 -0.1585886682 0.1623734431
O -3.2102809604 -0.9281040478 1.3666275982

C	-4.3777501942	-1.5652840255	1.5508270164
O	-4.4249820239	-2.4455792525	2.4030949394
C	-1.7001206808	0.5809034532	0.3183167295
C	-0.4852968711	-0.3242233836	0.57344440971
C	-0.0459790067	-1.1587476022	-0.6323326836
C	0.6569099336	-0.3070800267	-1.6879482639
C	1.7825775083	0.4927576981	-1.0374149981
C	1.2579754689	1.2856934365	0.156193156
O	0.6047297014	0.4307803024	1.0860349142
C	2.355978383	1.9902949045	0.9285076158
H	-8.7312256469	-2.1390879851	0.12628453
H	-6.5535086243	1.2120306504	-1.4797360252
H	-5.9891618812	-3.0457256565	2.1311696113
H	-9.5247554802	-0.6280030581	-1.4031195358
H	-4.0693030649	1.3066144006	-1.008507335
H	-4.2343198082	1.5112153226	0.7358116707
H	-2.9599487632	-0.8737268167	-0.6688281168
H	-1.558602537	1.1920134604	-0.5800917061
H	-1.7817577611	1.2684523006	1.1673979714
H	-0.7502619221	-0.9959289673	1.393674316
H	-0.9009192106	-1.6939698013	-1.0606356997
H	0.6512483354	-1.9232128354	-0.2706989998
H	-0.0559962172	0.3801040068	-2.1629672115
H	1.0472056653	-0.9442652849	-2.4885895677
H	2.2485249604	1.1746338351	-1.7580471815
H	2.5640618205	-0.191196874	-0.6820867296
H	0.5446634046	2.0413758419	-0.2140159261
H	3.0727838039	1.2599464541	1.3148601035
H	1.9355420278	2.5367681332	1.7764064304
H	2.888761823	2.6969224288	0.2854705861

calc_1b conf_11

C	-7.439084488	-1.3326947211	-0.4890109461
C	-6.9152216088	-0.2846415637	-1.2360741194
C	-5.6651722192	0.2747527047	-0.931321992
C	-4.9376208202	-0.2359279199	0.1246685752
C	-5.4368096009	-1.3114592137	0.8842956499
C	-6.7129934046	-1.8466145434	0.5864646073
O	-7.2521340528	-2.8326841199	1.3006366417
O	-7.579634367	0.250641593	-2.2846139103
C	-3.6115117339	0.3316257862	0.5409670703
C	-2.7353665774	-0.7653575221	1.1155009742
O	-3.4216566866	-1.4344669928	2.1997695683
C	-4.6811382194	-1.8530701537	2.0079667799
O	-5.1444344494	-2.6684032199	2.7998485645
C	-1.4173315065	-0.2965851949	1.7158760052
C	-0.307973275	0.0745162321	0.7362462036
C	0.1601832947	-1.0645272427	-0.1675317325
C	1.2515948425	-0.5651656363	-1.1122037814
C	0.751885683	0.6608347148	-1.8741801588
C	0.2139857283	1.7356162151	-0.9254830609
O	-0.7545880053	1.181891568	-0.0342009985
C	1.3050464616	2.4990803452	-0.1798428013
H	-8.4130397766	-1.7584301062	-0.7093157621
H	-5.2961721209	1.0998025268	-1.5294531211
H	-6.6227774129	-3.012649257	2.0463396545
H	-8.4203349277	-0.2122809517	-2.396352683
H	-3.0906586327	0.8083918955	-0.2908367453

H	-3.7610173677	1.103360484	1.3081250191
H	-2.5569975316	-1.5246632955	0.3444006838
H	-1.6125641099	0.5611576893	2.3684682886
H	-1.0442790705	-1.1042804901	2.3547204714
H	0.5516537652	0.3854678427	1.3515341188
H	-0.6839484255	-1.4376650545	-0.7596525122
H	0.5217618423	-1.8972307047	0.4462642487
H	1.5438733522	-1.3532621027	-1.8138068084
H	2.1509602901	-0.315054608	-0.5354207362
H	-0.0607480821	0.3555281779	-2.5441929599
H	1.5435009162	1.0850471165	-2.5017156978
H	-0.3621710733	2.4621048598	-1.5075911984
H	0.852861801	3.1937014585	0.5329791156
H	1.9063383618	3.0772903192	-0.8879417067
H	1.9857332075	1.8423030853	0.3686711916

calc_lb conf_12

C	-7.5310598127	-0.5351012456	0.8408322238
C	-7.5241152324	-0.2835357338	-0.5253115062
C	-6.3797551043	-0.5176091787	-1.304217973
C	-5.2382006785	-0.9961668657	-0.6953445096
C	-5.2119336564	-1.2395149723	0.6912634198
C	-6.3802374198	-1.0258028545	1.4609425566
O	-6.423416867	-1.2755194586	2.7676185585
O	-8.6107129506	0.1898184873	-1.1741568546
C	-3.988688943	-1.3344265967	-1.4562494084
C	-2.7533147194	-1.0725734593	-0.6061374844
O	-2.8629317133	-1.7903501504	0.6456689698
C	-4.0030809567	-1.7256519789	1.3475045823
O	-3.9784939532	-2.0915533169	2.5193664032
C	-2.4788308144	0.4103718491	-0.3617785653
C	-1.0576375741	0.7415473477	0.0871511091
C	-0.6530224835	0.2038208346	1.4573068958
C	0.8097444241	0.5425102613	1.7357560782
C	1.681536143	0.0251872422	0.5931578527
C	1.1860801596	0.5242200743	-0.7663040877
O	-0.2025664439	0.2439481538	-0.9342208095
C	1.5040602975	1.9928396756	-1.034921623
H	-8.4170849375	-0.3709947736	1.4460647857
H	-6.4188305684	-0.3231610344	-2.369770679
H	-5.5407764633	-1.661758305	3.006466969
H	-9.3316394951	0.3083143534	-0.5417730774
H	-4.0106084975	-2.3981134018	-1.726364413
H	-3.9255923928	-0.7693149483	-2.3901844348
H	-1.8747983643	-1.5122975289	-1.0796193804
H	-2.6474132056	0.9352605401	-1.308709907
H	-3.1975073893	0.8158691444	0.3582417612
H	-0.9845741961	1.8412643339	0.1196410365
H	-0.7955027909	-0.8807181794	1.4814336481
H	-1.3090030477	0.628784697	2.225607117
H	1.1308491551	0.1008242454	2.6847514414
H	0.9279827485	1.6284994906	1.8442140958
H	1.6465841569	-1.0706052678	0.5900819511
H	2.7295199738	0.314115625	0.7315572214
H	1.6629882086	-0.0689935644	-1.5536529378
H	1.1236220535	2.6584367346	-0.2551961248
H	1.0661652488	2.3000859504	-1.9884985865
H	2.5871981024	2.1380437745	-1.0922163146

calc_1b conf_13

C	-7.3433489268	-0.2017467764	0.3802674666
C	-7.2896518442	-0.6203972949	-0.9429717088
C	-6.1778181075	-1.3169538628	-1.4426000899
C	-5.1159774582	-1.5798351353	-0.6024427861
C	-5.1359067019	-1.1493807273	0.7379332253
C	-6.2732455442	-0.4693162282	1.2361824011
O	-6.3624508529	-0.0695599945	2.5023087942
O	-8.2974785028	-0.3876765802	-1.8118112246
C	-3.9180478429	-2.3739300898	-1.0375353283
C	-2.6640730984	-1.9143547259	-0.3058702011
O	-2.8816214556	-1.9242974335	1.1226447181
C	-4.0087681313	-1.3993258826	1.6283455193
O	-4.0392485124	-1.1636496822	2.8323031122
C	-2.1605153179	-0.5501360516	-0.7582591677
C	-0.9686192439	-0.0109154528	0.0255456039
C	0.2613662208	-0.9138433491	-0.0028617454
C	1.4483964338	-0.2135002279	0.657455934
C	1.6637776503	1.16046555	0.0266410847
C	0.3736646465	1.9848754732	0.0247887742
O	-0.6871532301	1.2461214625	-0.5738449079
C	-0.0078548664	2.5343695103	1.3968007875
H	-8.2054132854	0.3256501821	0.7764654398
H	-6.1789536833	-1.6376909999	-2.4778610291
H	-5.5383947234	-0.3873499664	2.9544600653
H	-9.0010073321	0.0968094897	-1.3600842422
H	-4.0903836596	-3.4342358019	-0.8128109238
H	-3.7642205025	-2.2968115243	-2.1177473445
H	-1.8766365974	-2.6588967701	-0.4413335054
H	-1.872941459	-0.6249020734	-1.8139387582
H	-2.9675008185	0.1881960718	-0.7039532486
H	-1.2712042712	0.1328653739	1.0728959172
H	0.5032863798	-1.1486107126	-1.0484238519
H	0.0461882249	-1.857252521	0.5105336405
H	2.3539669619	-0.8217277089	0.5606942536
H	1.2578460111	-0.1129397832	1.7332064984
H	1.9864382126	1.0283248907	-1.0130684133
H	2.4575127041	1.711333846	0.5436940586
H	0.5029571638	2.8369097952	-0.6509498638
H	-0.9686519667	3.0523482433	1.3352605587
H	0.7468039127	3.250260625	1.7369935409
H	-0.0911165859	1.7557068431	2.1599469467

calc_1b conf_14

C	-7.206854015	-0.4289626081	-0.1455324212
C	-6.4776434722	-0.2733997271	-1.3180318836
C	-5.13650262	-0.6767859473	-1.401563571
C	-4.5297284834	-1.2305103049	-0.2927845122
C	-5.2394954231	-1.3789960639	0.9136255683
C	-6.599356836	-0.9916608476	0.978299206
O	-7.3283528529	-1.1441592339	2.0820895612
O	-7.0197933282	0.2650697507	-2.4334762208
C	-3.121690589	-1.7490186176	-0.3183075676
C	-2.4600445416	-1.5874881011	1.041972387
O	-3.2805839723	-2.1754397967	2.0791579088
C	-4.6007787693	-1.9420173552	2.097632444

O	-5.2176334786	-2.2259537167	3.1205335422
C	-2.1367955724	-0.1484438142	1.4469519518
C	-0.9554137993	0.518804428	0.745332747
C	0.3866945206	-0.1901897089	0.9174618852
C	1.4750925001	0.5678511718	0.1584113017
C	1.0560745281	0.7533817193	-1.2990971051
C	-0.3345059196	1.3832064025	-1.4132658815
O	-1.2810201991	0.6552776523	-0.6308662095
C	-0.3641332243	2.8765910426	-1.100732123
H	-8.2490721639	-0.1326086029	-0.0789213182
H	-4.6028346519	-0.5473004778	-2.3356808016
H	-6.7420702758	-1.6006489588	2.7400956655
H	-7.9398172938	0.5007494727	-2.2558062502
H	-3.1387803004	-2.815741068	-0.5774798086
H	-2.522028376	-1.2272954354	-1.0654829304
H	-1.5526776478	-2.1929482232	1.0800564451
H	-3.0226547949	0.47811765	1.2981724528
H	-1.9242128536	-0.1559806368	2.5214992111
H	-0.8606760214	1.5203938157	1.1947274476
H	0.3193656918	-1.211561077	0.5237673901
H	0.6303702846	-0.2666166158	1.9832361057
H	2.4274868383	0.030310477	0.2122496995
H	1.6430384296	1.5423453074	0.6343085553
H	1.0302821624	-0.2278399118	-1.7880809711
H	1.7847052863	1.3643729835	-1.8433156398
H	-0.6971763465	1.2513343864	-2.4378169228
H	-1.3946001427	3.2405996125	-1.1265507561
H	0.2128569871	3.4262398359	-1.8506054857
H	0.0579607361	3.1169211424	-0.121183096

calc_1b conf_15

C	-6.7006951234	-0.4376701581	1.4258431391
C	-7.1225576766	0.1686940314	0.2496456506
C	-6.3710716772	0.0690698247	-0.9313620346
C	-5.1846154783	-0.6361536166	-0.9165830004
C	-4.724585437	-1.2429765007	0.2669794078
C	-5.5050924278	-1.1587491048	1.4437854584
O	-5.1383638696	-1.747217961	2.5800393383
O	-8.2721312077	0.876737216	0.1782540398
C	-4.3459004429	-0.8332678756	-2.1484472931
C	-2.8725989742	-0.9153578755	-1.7740526262
O	-2.6689032746	-1.9385768878	-0.7800983711
C	-3.4649631764	-1.9790785337	0.2968226865
O	-3.1152908565	-2.6710987443	1.2477454647
C	-2.2935571619	0.4316897369	-1.3352313138
C	-0.9869657746	0.3317477179	-0.5554818813
C	-0.1240214439	1.5862970913	-0.6569652745
C	1.0904444843	1.4605119834	0.2622947085
C	0.6450070844	1.1152506892	1.6832619072
C	-0.290566731	-0.0967508599	1.7056140835
O	-1.3668772358	0.1057355457	0.791900097
C	0.407509686	-1.4356267878	1.4876682657
H	-7.2839780832	-0.3764763552	2.3393264884
H	-6.7399308605	0.5458822886	-1.8321665987
H	-4.3050323892	-2.2465091994	2.3777840772
H	-8.6973894984	0.8777201145	1.0458417731
H	-4.6429686276	-1.7650596911	-2.6462110588
H	-4.5038530583	-0.0218119695	-2.8653899814

H	-2.2942679558	-1.2894532348	-2.6226278901
H	-2.1444076147	1.0280232494	-2.2432555455
H	-3.0079304453	0.9735027499	-0.7066153673
H	-0.4054661249	-0.5258238215	-0.9296393176
H	-0.7295645202	2.4529945605	-0.3614449498
H	0.187849468	1.7421719726	-1.6965432058
H	1.6704402877	2.3895975817	0.2630379757
H	1.7582702953	0.6799780227	-0.1241382591
H	0.1050402367	1.9719786682	2.1038494617
H	1.5103809153	0.9303269228	2.3296402049
H	-0.7911558825	-0.138237152	2.6780553597
H	-0.3416733077	-2.2275746326	1.4135680165
H	1.0663342191	-1.6537842773	2.3341262661
H	1.0210996612	-1.4546547281	0.5821700988

calc_lb conf_16

C	-7.8382842972	-1.1701313421	0.6091087475
C	-7.7515732828	-0.2478397339	-0.4262946672
C	-6.5104688699	0.2331645344	-0.8723027363
C	-5.3559454201	-0.2326554387	-0.2785015773
C	-5.4141541361	-1.1840217567	0.7586583554
C	-6.6737814385	-1.6361008514	1.2214178946
O	-6.7908051228	-2.4986958168	2.2278923904
O	-8.8470077968	0.2366183357	-1.0502572843
C	-3.9904359462	0.2606024733	-0.6652225051
C	-2.9805965248	-0.8619134088	-0.496240347
O	-3.0126837335	-1.3589943969	0.8599693045
C	-4.2012332839	-1.6810484316	1.3972224028
O	-4.2066416263	-2.3719574284	2.4105383693
C	-1.5359152815	-0.5251395291	-0.8372435455
C	-0.9333438832	0.7536497654	-0.2347413419
C	-0.6902013697	0.7242653327	1.2755421271
C	0.5020639234	-0.158330258	1.6368568945
C	1.7209195436	0.2632232215	0.8199132594
C	1.392433719	0.2837711481	-0.6696922771
O	0.2573532477	1.1033014696	-0.9316756244
C	2.5180465854	0.8413139245	-1.5185248658
H	-8.7954490894	-1.5331247892	0.9701307484
H	-6.4855670597	0.9630769756	-1.6730743193
H	-5.8728720707	-2.6612007513	2.5663540371
H	-9.636977603	-0.162504388	-0.6626199078
H	-3.9784077967	0.6165420522	-1.6997609414
H	-3.717729957	1.1101628103	-0.027096243
H	-3.2889577457	-1.6973788943	-1.1384678849
H	-0.9339711622	-1.4019805833	-0.5801950944
H	-1.476990456	-0.414886054	-1.9261956588
H	-1.6086593056	1.5846546248	-0.4645971834
H	-1.5912816455	0.3932284692	1.7979121869
H	-0.4798809102	1.75194989	1.595902827
H	0.2651962187	-1.2120807661	1.4438197879
H	0.7113587271	-0.0838036878	2.7089620477
H	2.5682133825	-0.4087439108	0.9987250717
H	2.0353476062	1.2718032826	1.1186605075
H	1.1823218649	-0.7484443413	-0.9947209557
H	2.7402743067	1.870504729	-1.2216356042
H	2.2359642821	0.8438116495	-2.5745047629
H	3.4243234078	0.2403318702	-1.4000216322

calc_1b conf_17

C	-7.8232385658	-0.8480250894	0.4809358693
C	-7.5623525504	-0.3159439241	-0.7756952117
C	-6.247765288	-0.153516783	-1.2400302105
C	-5.1969995726	-0.5446231915	-0.436126826
C	-5.433931573	-1.1060101763	0.8335167533
C	-6.7636579334	-1.2343311019	1.3031985871
O	-7.0445671425	-1.7150112399	2.5119038508
O	-8.5505392629	0.0765838852	-1.6087872162
C	-3.7602337155	-0.3659964441	-0.8382648204
C	-2.9205949429	-1.4834296299	-0.2417221651
O	-3.0872018561	-1.5204807491	1.192154765
C	-4.3316801255	-1.5163328606	1.6958332962
O	-4.480304547	-1.84656385	2.8677413592
C	-1.4319378369	-1.4315501089	-0.5432899126
C	-0.6698365109	-0.148331791	-0.2189496504
C	-0.4745476437	0.1225544329	1.2696470613
C	0.4446794265	1.3250887151	1.473124572
C	1.749678577	1.1182434459	0.7084091909
C	1.4901632836	0.7747784713	-0.7604867504
O	0.5829607263	-0.3185848342	-0.8706697694
C	1.0504747836	1.9706103561	-1.601723563
H	-8.8367427052	-0.9605656448	0.8528895747
H	-6.0854008659	0.2780337303	-2.2209289905
H	-6.173860268	-1.8712907283	2.9607614057
H	-9.4048981551	-0.0830515733	-1.1865260877
H	-3.6536776385	-0.3659046458	-1.9271081058
H	-3.4001072646	0.605611788	-0.4781837645
H	-3.3034083827	-2.4389411403	-0.6236651489
H	-0.946560323	-2.2686585382	-0.03046712
H	-1.311275061	-1.6125051519	-1.6172803116
H	-1.1951140853	0.7105535289	-0.6683119065
H	-0.0284440689	-0.769198493	1.7271993319
H	-1.441967693	0.2767448911	1.7546568958
H	0.6491555437	1.4725697076	2.5386778911
H	-0.059085875	2.2371481156	1.1275311587
H	2.2989814389	0.285375671	1.163053611
H	2.3927083135	2.0032007731	0.7741110264
H	2.4140649669	0.3824658892	-1.198284147
H	0.8149519729	1.6435534319	-2.6181400787
H	1.857161801	2.7080421551	-1.6568635558
H	0.1709506197	2.4766887011	-1.1938408876

calc_1b conf_18

C	-7.2759784011	-0.1403709592	0.0837977407
C	-6.9882963882	-0.5038105385	-1.2253820592
C	-5.8170393119	-1.2088484742	-1.5454700744
C	-4.9328525979	-1.5352129229	-0.5384503013
C	-5.1902789319	-1.1616205549	0.7942439239
C	-6.3869061906	-0.4735457122	1.1077675063
O	-6.7008180578	-0.1263066048	2.3532355008
O	-7.8145915599	-0.2070538598	-2.2521523075
C	-3.689384964	-2.3408917111	-0.781201196
C	-2.5821579092	-1.933198551	0.1819956132
O	-3.0534366452	-2.0016314381	1.545015818
C	-4.2495902015	-1.4791373164	1.8626630838
O	-4.4996891397	-1.3040462344	3.0503446645

C	-1.9939871388	-0.5553864783	-0.1066561735
C	-0.8663390314	-0.1435131209	0.8516882576
C	0.4665476167	-0.8572548862	0.6051829651
C	1.1754822403	-0.3273646672	-0.640359336
C	1.2768296274	1.1942656293	-0.5701435522
C	-0.0969645179	1.8097983093	-0.3235191452
O	-0.688452911	1.2664848221	0.850017388
C	-0.0477758302	3.3109323959	-0.1191846189
H	-8.1857855046	0.3930724056	0.3404863832
H	-5.6345838824	-1.4869761325	-2.5770058819
H	-5.9817169549	-0.4847990336	2.9348869432
H	-8.5808417444	0.2751872955	-1.9144053746
H	-3.915466665	-3.4041483591	-0.6295017839
H	-3.3427246407	-2.2322527324	-1.8128647689
H	-1.7904796631	-2.6861005178	0.1553347612
H	-1.6499405384	-0.5574596293	-1.1473361974
H	-2.7835523301	0.2004733248	-0.0354539916
H	-1.2046714968	-0.3648001631	1.8675973945
H	0.3143461428	-1.9408316361	0.5409700727
H	1.104866556	-0.6831856678	1.4789370186
H	0.6250476142	-0.6153773309	-1.5458435353
H	2.1691271991	-0.7791841897	-0.7294883617
H	1.7054420354	1.6022153999	-1.4927688969
H	1.9394583636	1.4850229762	0.2551554572
H	-0.7383316227	1.5911968989	-1.1940930986
H	-1.0511996573	3.7038541837	0.0623644253
H	0.3689613107	3.8070974999	-1.0005976965
H	0.5757257227	3.5537082814	0.7461934338

calc_1b conf_19

C	-7.2482792327	0.2393562729	0.0104781697
C	-7.1694203342	-0.276497516	-1.2768325133
C	-6.0864254508	-1.075499318	-1.6773323984
C	-5.0774012695	-1.3403708548	-0.7751251797
C	-5.1221815617	-0.8131381001	0.5293689645
C	-6.2325172916	-0.0317367661	0.9295557278
O	-6.3447903347	0.4615169536	2.160395718
O	-8.1246899935	-0.0443353064	-2.2034729158
C	-3.9105630944	-2.2296756589	-1.0932706553
C	-2.6632121518	-1.7552669726	-0.3608976212
O	-2.9301654102	-1.677438503	1.057191505
C	-4.0447848255	-1.0654054822	1.48020182
O	-4.1090213139	-0.7437153357	2.6640554543
C	-2.1046790053	-0.4224405636	-0.8714332602
C	-0.5747107362	-0.339018804	-0.7685132473
C	-0.0211865584	1.0323705863	-1.1660832957
C	-0.222737892	2.0654103012	-0.0588457705
C	0.3188273205	1.5190479059	1.2596660749
C	-0.3073997816	0.1635822468	1.5710555066
O	-0.0850979256	-0.7483154056	0.4952656622
C	0.2651064075	-0.4982420492	2.8069523437
H	-8.0900582949	0.8451474302	0.331017397
H	-6.068953385	-1.4719691132	-2.6859079064
H	-5.5616910888	0.1236949039	2.6683589784
H	-8.8140142619	0.5114684587	-1.8166421208
H	-4.1410796543	-3.2541490887	-0.7734407274
H	-3.719879708	-2.2665566637	-2.1695840781
H	-1.8851612588	-2.5187239544	-0.4224121892

H	-2.3717640174	-0.2986441633	-1.9276991478
H	-2.5917310555	0.4015673838	-0.340917426
H	-0.1693523092	-1.0910176677	-1.4571738886
H	-0.4798102325	1.3630599265	-2.1051608564
H	1.0529081582	0.9205017113	-1.3546279356
H	-1.2888754328	2.3013767804	0.0536711363
H	0.2739135223	3.0043303944	-0.3256483756
H	0.1171356199	2.2134382917	2.0830472348
H	1.4078717707	1.3968480331	1.1937327008
H	-1.3890327699	0.2967786608	1.7164661971
H	0.1151843148	0.1355378331	3.6855629954
H	1.3372902824	-0.677565527	2.6817571813
H	-0.2315697639	-1.4553112605	2.9812207417

calc_1b conf_20

C	-7.8777869465	-1.1221354418	0.1008990155
C	-7.5311375631	-0.0284378605	-0.6826386062
C	-6.2191242213	0.4697317504	-0.6989963658
C	-5.2546146553	-0.1499094676	0.0688892534
C	-5.5745553661	-1.2721050234	0.8558002123
C	-6.908416862	-1.7455824658	0.888299777
O	-7.2764192187	-2.7741222835	1.6482631761
O	-8.4311408297	0.6124293482	-1.459964248
C	-3.8363734219	0.3427730277	0.1350071313
C	-2.8896474883	-0.8234490816	0.3582744954
O	-3.281263287	-1.5630793319	1.5336891674
C	-4.5639273969	-1.9306882098	1.6750430147
O	-4.8278858511	-2.798028107	2.5009603328
C	-1.4320112666	-0.4528949342	0.5789117662
C	-0.7696867943	0.1870903852	-0.6588547194
C	-0.6602212671	1.7144468075	-0.5923538
C	0.4319762686	2.1579671536	0.3795625749
C	1.7411040584	1.443195353	0.0536370571
C	1.5227016728	-0.0651604912	-0.000621905
O	0.4987259299	-0.3884300481	-0.9342097234
C	2.754940662	-0.8321852583	-0.4368131121
H	-8.8940281189	-1.5024642951	0.1304110877
H	-5.9914320685	1.3322571751	-1.3146210821
H	-6.4751474086	-3.0372796759	2.1706136262
H	-9.2919222019	0.1827115781	-1.369791384
H	-3.571476567	0.8693508016	-0.7863191462
H	-3.7264671876	1.0579723983	0.9616482907
H	-2.9643889977	-1.5111278481	-0.495199497
H	-1.3646956706	0.1886850217	1.4644145394
H	-0.8999788814	-1.3796168136	0.8130978829
H	-1.3626908132	-0.0835977193	-1.5408615934
H	-1.6257349885	2.1535803812	-0.3177798731
H	-0.4140607311	2.0795838082	-1.596385539
H	0.1378013345	1.9265907233	1.411801549
H	0.5592186784	3.2445272198	0.3319399325
H	2.5117442883	1.6803666765	0.7958150435
H	2.1141959932	1.7750739381	-0.9237850536
H	1.2221316479	-0.4119238218	1.0027690946
H	3.5835082497	-0.656629463	0.2553284336
H	3.0626695823	-0.5149754195	-1.4375266042
H	2.5465177049	-1.9045104865	-0.4673542018

calc_1b conf_21

C	-7.7176395556	-1.3738322877	-0.2508455708
C	-7.92125013	-0.0692632515	0.1813260185
C	-6.8535454606	0.7269038351	0.6236536274
C	-5.5762961779	0.2045737905	0.6166209681
C	-5.3395128381	-1.1082066694	0.1659966277
C	-6.4290841544	-1.9105841541	-0.2505205671
O	-6.2689574355	-3.1709331075	-0.6468915861
O	-9.1479464249	0.497061868	0.202832899
C	-4.3840769307	0.9771454328	1.1057272695
C	-3.1415345931	0.553704752	0.3417590993
O	-2.9580844039	-0.8705986958	0.4373914366
C	-3.9941211498	-1.6728904631	0.1592735597
O	-3.7625312224	-2.8550953444	-0.0758057217
C	-1.8676674151	1.2207029892	0.8313287498
C	-0.5917446352	0.715802936	0.1577187765
C	0.4868984445	1.788097144	0.0251460887
C	1.7587991191	1.177385634	-0.5613903512
C	2.1805956042	-0.0482904463	0.2497271184
C	1.0220050813	-1.0336921014	0.4330374429
O	-0.1191233694	-0.3573472559	0.9510543296
C	0.6909403857	-1.8504573963	-0.8136684339
H	-8.5410338129	-2.0000635937	-0.5797369774
H	-7.05479021	1.7363105605	0.9634116162
H	-5.3074512008	-3.3829693217	-0.5212817031
H	-9.7974735209	-0.1402481654	-0.1221297455
H	-4.5424386983	2.0537370884	0.9914649383
H	-4.2267267405	0.7843717398	2.1753527411
H	-3.282819852	0.7834960115	-0.7238609156
H	-1.9807232903	2.2969706959	0.6553686697
H	-1.7573113058	1.0739704098	1.9108849649
H	-0.8439057182	0.3524152516	-0.8519871008
H	0.6926258558	2.2028989118	1.0206251742
H	0.1235879177	2.6091837342	-0.6043720835
H	2.5682884725	1.91488825	-0.5802010304
H	1.5750071686	0.8943285271	-1.605816787
H	2.5093817349	0.2801619874	1.2429418622
H	3.0315349526	-0.5540039208	-0.2205625754
H	1.2820361479	-1.7369817515	1.2306392905
H	0.543624968	-1.2311142305	-1.7032812015
H	-0.2236357083	-2.4242249521	-0.6429264487
H	1.5061001016	-2.5473144405	-1.0320044689

calc_1b conf_22

C	-7.2796136087	-0.1422958164	0.0941220131
C	-6.9988772868	-0.4994604887	-1.2171398862
C	-5.8261175512	-1.1998185497	-1.5465276542
C	-4.9316988255	-1.5306509837	-0.5469704221
C	-5.1843915903	-1.1650554071	0.7858796444
C	-6.3838899131	-0.4791635514	1.1080641698
O	-6.6886233119	-0.1398552921	2.3579558784
O	-7.9027588351	-0.1487895478	-2.1586770302
C	-3.6871723789	-2.3302058082	-0.8051754962
C	-2.5763659103	-1.9290172181	0.1568820637
O	-3.042737709	-2.0113195051	1.5196486677
C	-4.2377620742	-1.4900318386	1.8474848221
O	-4.4803866482	-1.3242588473	3.037228647
C	-1.9916406572	-0.547894229	-0.1228704962

C	-0.8797470423	-0.1278804772	0.850345774
C	0.4553777824	-0.8492468139	0.6411846014
C	1.1917473027	-0.3400614683	-0.5971703187
C	1.296042699	1.1822897316	-0.5476044626
C	-0.0805364941	1.8051732363	-0.3382233924
O	-0.6971640689	1.281237073	0.8309405469
C	-0.0311499609	3.309107217	-0.1558507074
H	-8.1927961533	0.3867904965	0.3349497651
H	-5.6280326987	-1.4830585428	-2.5772293497
H	-5.9678083659	-0.5001919879	2.9341027191
H	-7.6010066681	-0.4611964678	-3.0213614396
H	-3.908543909	-3.3958996561	-0.6638096629
H	-3.3447996803	-2.2093138834	-1.8372176964
H	-1.7835234417	-2.6802087929	0.1194370359
H	-1.6331369478	-0.5483556752	-1.1587638907
H	-2.7857175457	0.2041960886	-0.0622621561
H	-1.2382356068	-0.3332961892	1.8625602731
H	0.3015309368	-1.9332763738	0.591206633
H	1.0760466058	-0.6632038121	1.525125946
H	0.6598326512	-0.6406368579	-1.5096976832
H	2.1857936726	-0.7956503024	-0.6583150595
H	1.7449304626	1.575385775	-1.4670478198
H	1.9423557065	1.4833269605	0.2868749664
H	-0.7048049648	1.5752270946	-1.2183534781
H	0.4045904397	3.7906291201	-1.0362338021
H	0.5756359493	3.5635683922	0.717978726
H	-1.0368443601	3.7073631987	-0.0004709885

calc_1b conf_23

C	-7.7815940579	-1.0851508318	-0.202011421
C	-7.4216965693	0.1845503679	-0.6363166121
C	-6.157403109	0.7223111848	-0.348709766
C	-5.2522946878	-0.033645858	0.3675216161
C	-5.5840732026	-1.3310198453	0.8011544004
C	-6.8736135043	-1.8492858301	0.5332071224
O	-7.2563609368	-3.0506522965	0.959246899
O	-8.2634948618	0.9659814143	-1.3478420173
C	-3.8929605704	0.4759178506	0.7529304141
C	-2.8975545288	-0.6715568504	0.788359419
O	-3.3745719215	-1.6941177713	1.6923233544
C	-4.6358682165	-2.1340536856	1.5650725178
O	-4.9364407695	-3.1906466733	2.1108776134
C	-1.4992114814	-0.2989193719	1.2673494493
C	-0.4913055983	-0.0299833235	0.1541516023
C	-0.8249013264	1.1566124036	-0.7470816004
C	0.325624976	1.4372576463	-1.713111767
C	1.632761051	1.588931804	-0.9384605427
C	1.8726713623	0.3971491337	-0.0084901592
O	0.7387753317	0.1807939821	0.8270244262
C	2.3036382575	-0.8739529465	-0.7348472294
H	-8.7636063039	-1.5001215831	-0.4062645005
H	-5.9195056264	1.7221371555	-0.693058825
H	-6.509092451	-3.4039089841	1.5079377563
H	-9.0965910491	0.4953641649	-1.4827304465
H	-3.5537011617	1.2514482264	0.0616872152
H	-3.9344271997	0.9320608776	1.7512214752
H	-2.8449704006	-1.1341423277	-0.2071989361
H	-1.5373629818	0.5706236592	1.9332232392

H	-1.1138016903	-1.1335039636	1.8590879436
H	-0.4237034013	-0.9350236343	-0.4732920436
H	-1.0026259109	2.0367928987	-0.1150710911
H	-1.7466810864	0.9584579255	-1.3064872767
H	0.1225341468	2.3411622762	-2.2968733241
H	0.4048126261	0.6149238467	-2.4353350547
H	1.581288648	2.4968824318	-0.32597971
H	2.4824586919	1.7072657683	-1.6200527538
H	2.6637854541	0.6594963787	0.7014108786
H	1.6039016131	-1.1741019709	-1.5197425814
H	2.3887542876	-1.6983451991	-0.0219676942
H	3.2804081592	-0.7239884502	-1.2048619898

calc_1b conf_24

C	-7.7691823038	-0.9976330888	-0.1438127667
C	-7.2934963115	0.154991461	-0.7564894723
C	-5.9731718057	0.5903390234	-0.5645363018
C	-5.1302120918	-0.1506037579	0.2384073613
C	-5.5803738144	-1.3335164029	0.853257422
C	-6.9237945962	-1.7449702265	0.6778350888
O	-7.4156096031	-2.8291927817	1.2722460225
O	-8.0708210311	0.9151922218	-1.5586205153
C	-3.7162798025	0.2689456799	0.5270306757
C	-2.8392602743	-0.953069219	0.7361035539
O	-3.3985366932	-1.7991191533	1.7626332279
C	-4.6995180276	-2.1204404661	1.70844739
O	-5.0915066872	-3.0577971185	2.395501902
C	-1.4135503586	-0.6745999937	1.1823525505
C	-0.5639142117	0.0822916214	0.1576393106
C	-0.4575605049	1.5823994967	0.4268376817
C	0.5031444511	2.2391723685	-0.5612255457
C	1.8473513419	1.5148149708	-0.5271682221
C	1.6778982324	0.0055554004	-0.7178314503
O	0.7232738546	-0.5165355006	0.203581566
C	1.3682464133	-0.4001208211	-2.1566136222
H	-8.7939488298	-1.330911931	-0.2745460183
H	-5.6439208989	1.502124612	-1.0494076625
H	-6.6925507047	-3.1820985392	1.8530042053
H	-8.9502199488	0.518964043	-1.616730104
H	-3.3225546425	0.8720439145	-0.2959916548
H	-3.6877038012	0.8927893133	1.4307358231
H	-2.8229797137	-1.5404530575	-0.1921488392
H	-1.4332847284	-0.1430382322	2.140400741
H	-0.930625886	-1.6387070068	1.3619582805
H	-0.9965574749	-0.0654704079	-0.8479536232
H	-0.0833303627	1.7164084803	1.4498653466
H	-1.4470120614	2.0503867641	0.3820484795
H	0.6371627185	3.2988878256	-0.3198845318
H	0.075163715	2.2047319922	-1.5713696586
H	2.3175083801	1.6870195484	0.4481718703
H	2.528901726	1.9111101294	-1.288087286
H	2.6085776615	-0.4913303532	-0.4253501477
H	2.2155976563	-0.1573097629	-2.8050731265
H	0.488846104	0.1077913284	-2.5624986079
H	1.1938049158	-1.4780423743	-2.2097193424

calc_1b conf_25

C	-7.0248812447	0.0924539983	0.1328744829
C	-6.5544619945	-0.0420133986	-1.1670274884
C	-5.4078843811	-0.8009804393	-1.4520999699
C	-4.7325113858	-1.4131050131	-0.4160460382
C	-5.1755297017	-1.2748879524	0.9126636858
C	-6.3489892974	-0.5315683305	1.183782293
O	-6.8364689153	-0.4007400921	2.4148173589
O	-7.1720068598	0.5380407558	-2.2191841711
C	-3.5358036048	-2.2929720261	-0.6308652882
C	-2.5735946269	-2.18693452	0.5439291747
O	-3.2684211105	-2.4788622007	1.7760649798
C	-4.4556126964	-1.9026335516	2.0166350439
O	-4.8910514918	-1.9393693596	3.1629186822
C	-1.8423835598	-0.8546414944	0.694693066
C	-0.8732443996	-0.5549416118	-0.4678249559
C	-1.4199066472	0.4456620094	-1.4920117647
C	-1.4035535473	1.8720341551	-0.946748101
C	-0.0141389773	2.2105949264	-0.4139601027
C	0.439073467	1.1549974628	0.5885487776
O	0.4023289174	-0.1417284793	0.0018171888
C	1.8594561914	1.3611123197	1.0755872556
H	-7.9193975391	0.6644120408	0.3586431132
H	-5.0846474053	-0.8999103878	-2.4820076091
H	-6.2579583308	-0.9512626522	3.0041725754
H	-7.9448372785	1.025851944	-1.9052454818
H	-3.8668194573	-3.336070703	-0.7140944013
H	-3.0233920794	-2.0507640844	-1.5658452791
H	-1.831307399	-2.986606184	0.476330852
H	-2.574527399	-0.0517130623	0.8312833791
H	-1.2597415899	-0.9222121911	1.6180935819
H	-0.6544393461	-1.499131425	-0.9822703479
H	-2.4344347305	0.1647782612	-1.7951229258
H	-0.7868745329	0.3972654057	-2.3858965102
H	-2.1405206895	1.9770908661	-0.1399505174
H	-1.703210576	2.5761996457	-1.7298814749
H	-0.0055690902	3.198606942	0.0599708205
H	0.7072493374	2.2371116611	-1.2408074498
H	-0.2440996766	1.1810915235	1.4545673898
H	2.138455939	0.5767381943	1.7835774155
H	1.9603393235	2.3310562533	1.5708519333
H	2.5563183862	1.3249507938	0.2330668276

calc_1b conf_26

C	-7.7937331577	-1.1192862544	-0.0813807873
C	-7.3861538447	-0.0334146311	-0.8461220124
C	-6.0770237512	0.4665937447	-0.7629221914
C	-5.1772174836	-0.1436059408	0.0862984859
C	-5.5582811947	-1.2583042553	0.8567741973
C	-6.8899445916	-1.7332096753	0.7876140952
O	-7.3171040555	-2.7538313722	1.5270852902
O	-8.2212193992	0.5986259247	-1.6994804903
C	-3.7701588417	0.3491155401	0.2690660352
C	-2.842538704	-0.8176474088	0.5635649775
O	-3.3257293734	-1.5337532252	1.7225535458
C	-4.6156551375	-1.9034651549	1.7638172955
O	-4.9442017143	-2.7607048728	2.576968169
C	-1.3970401963	-0.4322308882	0.8676822675
C	-0.4318482544	-0.6400860246	-0.3093209259

C	-0.6697890343	0.2540365136	-1.5282817942
C	-0.2348532351	1.6930023003	-1.2615173486
C	1.2102831441	1.7021976669	-0.7678027458
C	1.3783305949	0.7690724467	0.4282248116
O	0.9175719688	-0.5425177377	0.1206640474
C	2.8218777396	0.616996313	0.8647831547
H	-8.8090435495	-1.500273051	-0.1285136967
H	-5.8016341888	1.3240378217	-1.3660004313
H	-6.5608577654	-3.0090462584	2.1161184043
H	-9.087062092	0.1703838315	-1.6731562594
H	-3.4279283448	0.8943370523	-0.6146001615
H	-3.7281813904	1.0490421642	1.1145548365
H	-2.8760436116	-1.5250885777	-0.2770679504
H	-1.3628420734	0.5968058493	1.2409468337
H	-1.0459757876	-1.0751909303	1.6795064162
H	-0.5317901727	-1.6864219259	-0.620968928
H	-1.717095126	0.2022198483	-1.8464372848
H	-0.073628187	-0.1482453249	-2.3557482061
H	-0.8842221455	2.1556957378	-0.5064392352
H	-0.337414316	2.2960714048	-2.1697768615
H	1.5249111066	2.7146766157	-0.4906748533
H	1.8760435001	1.3616292681	-1.5713145851
H	0.7951071053	1.1741400945	1.2715226273
H	3.2415510487	1.5846378472	1.1546638277
H	3.4226026946	0.2056578411	0.048324642
H	2.8919318172	-0.0636523175	1.7167927887

calc_1b conf_27

C	-6.3517370232	0.3614967164	-0.3048366429
C	-5.8927031064	-0.1337591214	-1.5207216144
C	-4.8695173497	-1.0891183834	-1.5763590809
C	-4.3098361059	-1.5506576046	-0.4002419163
C	-4.7528664069	-1.0657312413	0.8415425823
C	-5.792752499	-0.1024322686	0.8862570698
O	-6.2661746774	0.3777876885	2.033825381
O	-6.4095205177	0.2751855971	-2.7012160124
C	-3.2973767055	-2.657453191	-0.4024323518
C	-2.4440343507	-2.7313700924	0.8631324842
O	-3.193488134	-2.4500970298	2.0636427257
C	-4.1976528046	-1.5667099379	2.0918562857
O	-4.6244199334	-1.2322082266	3.1943386102
C	-1.1435781147	-1.9299526181	0.8829260926
C	-1.1898299226	-0.4207131387	0.691208519
C	0.157236001	0.2027464548	1.0619861778
C	0.2095229362	1.6801008773	0.6829776549
C	-0.1828852166	1.8489093062	-0.7828740755
C	-1.5302388866	1.1851324293	-1.0740624453
O	-1.5040682578	-0.1859040199	-0.672485029
C	-2.7159658972	1.9463193738	-0.49035381
H	-7.149450065	1.0958617582	-0.2523258726
H	-4.5406243739	-1.4546200973	-2.5421167164
H	-5.7830919854	-0.1038670094	2.7561300813
H	-7.1070113079	0.9225132364	-2.533664111
H	-3.8416043988	-3.6043748032	-0.5101313986
H	-2.6384294404	-2.5653441712	-1.2687700152
H	-2.1503141906	-3.775140607	1.0032353692
H	-0.6669920192	-2.1381511717	1.8472456971
H	-0.4871779594	-2.3419918661	0.1065454369

H	-1.969947378	0.0137133259	1.3357981119
H	0.9474476361	-0.3400960447	0.5260700624
H	0.3386768777	0.0665154568	2.1340178715
H	1.2125354684	2.0831977722	0.8584840847
H	-0.4701668632	2.2518440238	1.3265417184
H	0.5797379439	1.3782887976	-1.4149682973
H	-0.2250290606	2.9079574768	-1.0606857387
H	-1.6698643611	1.1270032803	-2.1583564604
H	-2.7770441793	2.9395767967	-0.9464389706
H	-2.6403346088	2.0866464266	0.5912860394
H	-3.6464287618	1.4148958498	-0.6980074966

calc_1b conf_28

C	-7.2243521279	-0.0402002481	0.3786108263
C	-6.6803662567	0.2492077953	-0.8660806888
C	-5.4538380881	-0.3012609133	-1.2712633655
C	-4.773252356	-1.1345717703	-0.407188702
C	-5.2916325941	-1.4263591773	0.8682212826
C	-6.5432915049	-0.8896986112	1.2531833313
O	-7.1006713386	-1.1643112188	2.429642552
O	-7.2994156698	1.062778068	-1.7495917159
C	-3.4870302485	-1.8156472374	-0.7753265076
C	-2.5978843323	-1.9828430057	0.448774183
O	-3.3193258031	-2.6713748539	1.4929000269
C	-4.5681971531	-2.2890437164	1.7972883025
O	-5.0539559234	-2.6951631132	2.8480072519
C	-2.0051461492	-0.6988868003	1.0218607573
C	-1.0106672521	-0.0009169461	0.0874986971
C	-1.5756869249	1.2419225186	-0.5966179901
C	-0.4941670305	1.9386803415	-1.4185596295
C	0.7173426691	2.2241462815	-0.5329505108
C	1.1906364337	0.9655470088	0.1996526187
O	0.1092357339	0.3442618738	0.8899533037
C	1.9432195304	-0.0184593546	-0.6927913659
H	-8.1798075855	0.3688287819	0.6918740245
H	-5.0722892011	-0.0676179118	-2.2586050791
H	-6.4999968636	-1.8149002133	2.8781187427
H	-8.1277320182	1.3779137071	-1.3644669256
H	-3.7102939823	-2.8099578058	-1.1829212029
H	-2.9542384281	-1.2676126583	-1.557350048
H	-1.7814199339	-2.669655211	0.2108636174
H	-2.8085328538	-0.0125032648	1.3106787544
H	-1.4659879484	-0.9678351253	1.9339340165
H	-0.6888703559	-0.7136139698	-0.6931230204
H	-1.9418744397	1.9209522981	0.1838453838
H	-2.438371625	0.9778553672	-1.2185512352
H	-0.8774137281	2.8702674305	-1.8479463899
H	-0.2068975098	1.3029745596	-2.2662374744
H	0.4377193209	2.9724413502	0.2179615237
H	1.5430506022	2.6460991285	-1.1166237882
H	1.8669169238	1.2643478542	1.0071045904
H	2.1908399051	-0.9198640965	-0.1258344437
H	2.8762315947	0.4326701517	-1.0442697942
H	1.371414513	-0.3175972931	-1.5756739089

calc_1b conf_29

C	-7.3973210916	-0.2033074186	0.266852206
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C	-6.9081200586	-0.0110929031	-1.0188180354
C	-5.653276033	-0.5096062079	-1.4033203241
C	-4.8901482549	-1.1939875624	-0.4797431283
C	-5.3529246189	-1.3834877772	0.8351675698
C	-6.6311417869	-0.9005532699	1.203138046
O	-7.1354299047	-1.0865703948	2.4204659455
O	-7.6091946583	0.6548523747	-1.9626627812
C	-3.56375861	-1.8100101601	-0.8224030649
C	-2.6350050959	-1.7880041524	0.3851095244
O	-3.2836056151	-2.4237735357	1.5102362543
C	-4.545485818	-2.0924773644	1.8211251014
O	-4.9695053154	-2.4175778067	2.9255390274
C	-2.1361900956	-0.3986859596	0.7932410866
C	-0.7673561413	-0.0227901887	0.2310089758
C	-0.698220651	0.0954397133	-1.2896471701
C	0.6635087198	0.6366151109	-1.7246785541
C	0.9703514938	1.935027049	-0.9824649629
C	0.8207238551	1.7629196168	0.5306354334
O	-0.4568446706	1.2164348039	0.8464984153
C	1.9577988139	0.9773083871	1.178209113
H	-8.3728499869	0.166575355	0.5665384464
H	-5.3126196325	-0.3511376841	-2.4199931595
H	-6.4758462002	-1.6396285846	2.9141428205
H	-8.4479530032	0.9509637515	-1.5851609577
H	-3.7185171899	-2.8516749896	-1.1317079177
H	-3.1003050264	-1.290495922	-1.6643560926
H	-1.7787861315	-2.4428750404	0.2009482893
H	-2.8606486866	0.376075904	0.5195703278
H	-2.0435061401	-0.3783445546	1.8827240388
H	-0.042659296	-0.79070894	0.5521850201
H	-1.492740604	0.7750958197	-1.6248944571
H	-0.8804243378	-0.8814554657	-1.7528004043
H	0.6801042142	0.8038595638	-2.8067566165
H	1.4379639884	-0.1123823988	-1.5164004852
H	0.2657344165	2.7081863348	-1.3107987347
H	1.9778440445	2.2946986858	-1.2193374355
H	0.7942133011	2.7539075866	0.9952288195
H	1.7537783048	0.8393303319	2.2432763053
H	2.8987450951	1.526845971	1.0771098003
H	2.1036184076	-0.0095080782	0.7299937146

calc_1b conf_30

C	-7.0411492462	-0.1145011113	-0.1664352005
C	-6.4167610027	-0.2802402471	-1.3959659338
C	-5.1895822971	-0.9539223584	-1.5052178443
C	-4.5919984091	-1.4509892044	-0.3649859361
C	-5.1920931771	-1.2765484134	0.8951427659
C	-6.4423240248	-0.6203599406	0.9893642785
O	-7.0748529421	-0.4638681565	2.1494305812
O	-6.9533335495	0.1879603847	-2.5441263034
C	-3.3116352298	-2.2352043559	-0.3978919871
C	-2.5004408019	-1.9873385512	0.8679215674
O	-3.3120900874	-2.2757950989	2.0295226062
C	-4.5570150396	-1.7834400113	2.1064274681
O	-5.1135921483	-1.7948068347	3.1995220576
C	-1.9022115368	-0.5805017257	0.9867793948
C	-0.4278605822	-0.4888194388	0.5606083598
C	-0.1372092649	-0.7628969115	-0.916179125

C	-0.6075544687	0.3881830136	-1.8014967134
C	0.0024665243	1.6931199771	-1.2954131241
C	-0.2897473512	1.8892729189	0.1901691532
O	0.1294957115	0.7583288749	0.9483058168
C	0.4313557048	3.0837659382	0.782253491
H	-7.9971886036	0.3916367315	-0.0766318694
H	-4.7423490296	-1.0783133075	-2.4847425939
H	-6.526429235	-0.9306599463	2.8321143089
H	-7.7917562567	0.6263264636	-2.3475572173
H	-3.5438557613	-3.305586403	-0.4670219355
H	-2.7224636107	-1.977691243	-1.2813022908
H	-1.7016543055	-2.7305345497	0.9438818698
H	-2.524027849	0.1362867984	0.4411577466
H	-1.9321705889	-0.2906844405	2.0410457777
H	0.1233464269	-1.2200078966	1.1639609555
H	-0.5741199143	-1.7183038161	-1.2275129316
H	0.9487468865	-0.8700575221	-1.022976869
H	-1.7031465435	0.4615909566	-1.7868315947
H	-0.3225764119	0.2077757633	-2.8434103488
H	-0.37913105	2.5510450622	-1.8603521766
H	1.0909458868	1.667655801	-1.4354212651
H	-1.3751359022	2.0330201536	0.3162857024
H	0.1336970934	4.0049832622	0.2730576527
H	1.5134692778	2.9610710536	0.6791871196
H	0.1979327092	3.181048331	1.8453345866

calc_1b conf_31

C	-6.6856202094	0.1594411994	0.1400087909
C	-6.1398422171	0.1087644402	-1.1370691676
C	-4.9896785344	-0.6448504202	-1.4082455299
C	-4.3801705419	-1.3388091057	-0.3833963854
C	-4.9042927702	-1.2952823229	0.9206601832
C	-6.0791160164	-0.5461148808	1.1791514831
O	-6.6323861313	-0.4884833771	2.3891165685
O	-6.6901069062	0.7725290537	-2.1783493352
C	-3.2024662986	-2.2379932201	-0.6253253213
C	-2.3162878624	-2.4294136759	0.6040992739
O	-3.0897068544	-2.6217054399	1.8082505861
C	-4.261742429	-2.0074603293	2.0162221223
O	-4.745497339	-2.0829243507	3.1425416016
C	-1.231459612	-1.3814503562	0.8622995195
C	-1.6493494037	0.093774038	0.8573422172
C	-0.6560655066	1.0002335364	1.5904264035
C	0.6188360634	1.2136681832	0.7794250582
C	0.2491535748	1.7211552424	-0.6115784192
C	-0.7522346351	0.7840019793	-1.2802968835
O	-1.8968029422	0.5739932416	-0.4615656909
C	-1.2706086967	1.3221278922	-2.6000778803
H	-7.5827369225	0.7316055338	0.3547064119
H	-4.5974200671	-0.661724154	-2.4180094054
H	-6.0873470426	-1.0782588156	2.972473497
H	-7.4688358421	1.2541965884	-1.8700704086
H	-3.5851028378	-3.2207809265	-0.9293011408
H	-2.5964327814	-1.8602432738	-1.4517606514
H	-1.7983411226	-3.3865485667	0.5000112636
H	-0.7958390629	-1.6284049286	1.8367279165
H	-0.4366345787	-1.5449344488	0.1259965324
H	-2.6192361451	0.1844176255	1.3545782775

H	-0.4377237336	0.585720481	2.5804320617
H	-1.1407505737	1.9708049333	1.7486555498
H	1.180876039	0.2740871551	0.6958634365
H	1.2787324387	1.9245440566	1.287637515
H	1.136988068	1.8176749419	-1.2468472389
H	-0.204847347	2.7174483132	-0.5317782676
H	-0.2478793363	-0.1799000642	-1.466004176
H	-0.4464481588	1.4825171132	-3.3011828781
H	-1.7866170046	2.2732497707	-2.441948184
H	-1.9799587202	0.6233273376	-3.0508193056

calc_1b conf_32

C	-6.3302112195	0.5584526836	0.1159147467
C	-6.0924954503	0.087783833	-1.1695262366
C	-5.2183109711	-0.9852053395	-1.4022134738
C	-4.5779466756	-1.575031194	-0.3306470663
C	-4.7874613407	-1.1078362848	0.9786075738
C	-5.6887254523	-0.0383334229	1.2029782774
O	-5.9452598228	0.4292406909	2.4216370302
O	-6.688806931	0.6285547057	-2.2542435349
C	-3.6939645866	-2.7775506222	-0.4868801618
C	-2.5965122032	-2.8536347083	0.5725499089
O	-3.11155782	-2.5889373679	1.8957694455
C	-4.0800774087	-1.692300191	2.1113036686
O	-4.3248242663	-1.3889035218	3.2763445781
C	-1.3309575638	-2.0471551988	0.2887121701
C	-1.4225108883	-0.5351464113	0.0750172384
C	-1.3784853849	0.2831633697	1.3632034504
C	-1.3059668472	1.7751462769	1.0452940268
C	-0.1332027482	2.0488821341	0.1065564427
C	-0.1759177635	1.1407336249	-1.1249740094
O	-0.2943722328	-0.2258471823	-0.7386689623
C	-1.2374825832	1.5421594458	-2.1465764958
H	-7.0140768508	1.3800627242	0.3045469401
H	-5.0698392474	-1.3340215135	-2.4175701668
H	-5.4314656508	-0.1405149064	3.0524007152
H	-7.2686205015	1.3484845363	-1.9726835254
H	-4.3201322076	-3.6751200599	-0.4046251646
H	-3.2384919026	-2.8031846845	-1.4810583981
H	-2.2758253471	-3.8958107651	0.6472499576
H	-0.6093256839	-2.255428138	1.0863673823
H	-0.9035453815	-2.4646872348	-0.6302957192
H	-2.3425380197	-0.2932391378	-0.476513592
H	-2.2415968224	0.066317514	1.9982133786
H	-0.4851194201	-0.0191265948	1.9248843066
H	-1.1969424225	2.3563538803	1.9668822319
H	-2.2490170565	2.098862316	0.5868365782
H	0.8030636865	1.8541384373	0.6430266614
H	-0.113015445	3.0989217294	-0.2065003872
H	0.7980208166	1.1800237319	-1.6242642683
H	-1.0054356494	2.5281143316	-2.5610388574
H	-2.2425647376	1.592680066	-1.7186995975
H	-1.2544819965	0.8209384482	-2.9683170923

calc_1b conf_33

C	-6.7937413613	0.3057345874	0.4043563784
C	-6.6245548314	0.0369544605	-0.9481632322

C	-5.6287255208	-0.8445633592	-1.3966242251
C	-4.7975086698	-1.44581634	-0.4733774227
C	-4.9351243588	-1.1778089907	0.9002079298
C	-5.9574302978	-0.302308718	1.3420957601
O	-6.1509998354	-0.0306646564	2.6298069861
O	-7.4062249973	0.5981302731	-1.8954933874
C	-3.7673266432	-2.4631531567	-0.8677770075
C	-2.5699484084	-2.5072160625	0.0788499925
O	-2.9770118036	-2.4795474305	1.4636689559
C	-4.0339598607	-1.7708046399	1.8791583824
O	-4.1898990697	-1.6455922431	3.0912154598
C	-1.4537160823	-1.4966012317	-0.1926806192
C	-1.7907978465	0.0055971031	-0.211847587
C	-1.7245259931	0.6922285481	1.1566294041
C	-0.2832841767	0.8918110827	1.6237243266
C	0.5293426358	1.5844128329	0.533280729
C	0.4012553191	0.8292984874	-0.7849992271
O	-0.9657089749	0.687035193	-1.1523306366
C	1.0790226171	1.5342642961	-1.943430653
H	-7.5684598646	0.9779916792	0.7594040901
H	-5.5369093182	-1.0391259098	-2.4588321058
H	-5.4907541646	-0.5761063538	3.1319890619
H	-8.0484564943	1.1834075406	-1.4727092282
H	-4.2463263576	-3.4505333659	-0.8669262313
H	-3.4140371372	-2.2876130497	-1.8881208122
H	-2.108590814	-3.4939188227	-0.0131517363
H	-0.6508383715	-1.7098629933	0.5208270945
H	-1.061802462	-1.7438839726	-1.1868359799
H	-2.7949949601	0.1342637308	-0.6241965078
H	-2.2910380452	0.1280210232	1.9025483618
H	-2.2056392382	1.672596383	1.0610239926
H	0.17611461	-0.0750405898	1.8669766663
H	-0.2697230563	1.476808101	2.5491581289
H	1.5856791388	1.6585939928	0.8164756459
H	0.157450192	2.6064085537	0.3842242401
H	0.8538517287	-0.1693256518	-0.6612231969
H	2.1487067098	1.6557301426	-1.7496018636
H	0.6362427583	2.5233906913	-2.0922718896
H	0.953393306	0.9618088357	-2.8660280374

Table S30. Sampled and DFT geometry optimized conformers related to calc_1c, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_1c conf_1	-997.7128633	30.73%	-997.9473639	23.32%	-997.906243	18.46%
calc_1c conf_2	-997.7127837	28.25%	-997.9476911	32.98%	-997.906957	39.32%
calc_1c conf_3	-997.7119331	11.47%	-997.9466498	10.95%	-997.905516	8.54%
calc_1c conf_4	-997.7118445	10.45%	-997.9469827	15.57%	-997.906352	20.72%
calc_1c conf_5	-997.7115434	7.59%	-997.9463331	7.83%	-997.905056	5.25%
calc_1c conf_6	-997.7112678	5.67%	-997.9456922	3.97%	-997.904662	3.46%
calc_1c conf_7	-997.7103432	2.13%	-997.9447668	1.49%	-997.903149	0.70%
calc_1c conf_8	-997.7098307	1.24%	-997.9449555	1.82%	-997.903769	1.34%
calc_1c conf_9	-997.7093698	0.76%	-997.9438321	0.55%	-997.902300	0.28%
calc_1c conf_10	-997.7091792	0.62%	-997.9438379	0.56%	-997.903029	0.61%
calc_1c conf_11	-997.7090163	0.52%	-997.9432388	0.30%	-997.901909	0.19%
calc_1c conf_12	-997.7079788	0.17%	-997.9427438	0.17%	-997.902746	0.45%
calc_1c conf_13	-997.7075991	0.12%	-997.9426792	0.16%	-997.902091	0.23%
calc_1c conf_14	-997.7074178	0.10%	-997.9424855	0.13%	-997.902011	0.21%
calc_1c conf_15	-997.7073956	0.09%	-997.9422959	0.11%	-997.900200	0.03%
calc_1c conf_16	-997.7066684	0.04%	-997.9413475	0.04%	-997.901716	0.15%
calc_1c conf_17	-997.7059392	0.02%	-997.9409557	0.03%	-997.899743	0.02%
calc_1c conf_18	-997.7057660	0.02%	-997.9408909	0.02%	-997.899825	0.02%
calc_1c conf_19	-997.7038946	0.00%	-997.9392581	0.00%	-997.897492	0.00%
calc_1c conf_20	-997.7015944	0.00%	-997.9351053	0.00%	-997.892976	0.00%

Table S31. Cartesian coordinates of the optimized geometries for the conformers related to calc_1c. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S30.

calc_1c conf_1

C	-7.4302241253	-0.514733415	3.4644105364
C	-6.4045823942	-1.4037444659	3.7621244368
C	-5.344891342	-1.6203565001	2.8684921032
C	-5.3292943839	-0.9464897701	1.6639444379
C	-6.3679069808	-0.0557975357	1.3292320308
C	-7.4149551492	0.178310847	2.2533308167
O	-8.3968287604	1.0433702131	2.0074970962
O	-6.3704707534	-2.0967609776	4.921888837
C	-4.208091769	-1.0862066147	0.6748972863
C	-4.7440454681	-0.9158728226	-0.7352159142
O	-5.4467054963	0.340429772	-0.8612498573
C	-6.3613478112	0.6684084897	0.0639459614
O	-7.1455333817	1.574978675	-0.198808145
C	-3.7157810299	-0.9358480939	-1.8565630326
C	-2.6524992941	0.1539341574	-1.814197291
C	-1.9513557805	0.3217114276	-3.1604536542
C	-0.815460357	1.3363096926	-3.0501029768
C	0.1059557734	0.9757232826	-1.8870017594
C	-0.6996073842	0.7774445875	-0.6065355059
O	-1.7135103878	-0.2007490641	-0.8068610749
C	0.1434413278	0.3054895188	0.5610654268
H	-8.2440279357	-0.3300131561	4.1585979961
H	-4.5568253474	-2.3117403017	3.1436990574
H	-8.17936714	1.4735583236	1.1404721981
H	-7.1453758686	-1.8668628322	5.4513072441
H	-3.7223837507	-2.06210376	0.763965652
H	-3.4332690152	-0.3361397031	0.8634645624
H	-5.4802676883	-1.7079032765	-0.9271346627
H	-3.2156996052	-1.9108024963	-1.8598739206
H	-4.2642090351	-0.8494379674	-2.8005969296
H	-3.1265630107	1.1112464286	-1.5416800202
H	-1.5536564703	-0.6532157568	-3.4715349694
H	-2.6792788636	0.6351380168	-3.9170198118
H	-0.2531521676	1.3896168807	-3.9882161909
H	-1.2393867387	2.3351899013	-2.8805077448
H	0.6399166153	0.0423581671	-2.1067353012
H	0.8609567822	1.7547761581	-1.7316709274
H	-1.1845408026	1.7345593983	-0.3458179261
H	0.9309832167	1.0306784773	0.7846619531
H	0.6121291221	-0.6546212562	0.3258550204
H	-0.4722873486	0.1761673511	1.454924963

calc_1c conf_2

C	-7.3076771057	-1.1505263238	3.4048008439
C	-6.0496592961	-0.8786267753	3.9278987954
C	-5.0581247974	-0.2568543248	3.1540816957
C	-5.3362592072	0.0780493656	1.8443034401
C	-6.5958966076	-0.2046523021	1.2838783914
C	-7.5982292008	-0.803848414	2.0842841738
O	-8.8206065909	-1.0524837733	1.6198590911

O	-5.718006277	-1.1903120599	5.2005803353
C	-4.3413064866	0.7806443972	0.9640186634
C	-4.5458642125	0.3736724463	-0.4836671022
O	-5.9162363794	0.5985584128	-0.8829317759
C	-6.904753458	0.1524337127	-0.0965271871
O	-8.0337560377	0.079724985	-0.5720607751
C	-3.707991812	1.1423323941	-1.4920799762
C	-2.2076552486	0.9695144479	-1.3089287802
C	-1.4040978022	1.6445488398	-2.4174734509
C	0.0840510004	1.340512249	-2.2580269805
C	0.3028701574	-0.1654842436	-2.1274703302
C	-0.5842828943	-0.7441364999	-1.0291725496
O	-1.9485921583	-0.4239995879	-1.272999068
C	-0.5004844331	-2.2531795392	-0.9222426073
H	-8.0849754249	-1.6166325776	4.0021351429
H	-4.092839238	-0.0507070402	3.6019139443
H	-8.8489762356	-0.6840522207	0.6986628071
H	-6.4733932526	-1.6119427705	5.6309427108
H	-3.3208025301	0.5365972435	1.2709908138
H	-4.4621186328	1.8686573229	1.059416014
H	-4.344930061	-0.697202778	-0.587456399
H	-3.9903871531	0.7999611569	-2.4930881618
H	-3.9589587753	2.207428779	-1.4317236608
H	-1.8984881648	1.4101877232	-0.3434539922
H	-1.7607062901	1.2648667076	-3.3830699071
H	-1.5876963266	2.7248544091	-2.403151198
H	0.6513551406	1.7425784619	-3.1038353289
H	0.4648060527	1.8426809547	-1.3582372503
H	0.0510627212	-0.6632534342	-3.0724746244
H	1.3532702927	-0.3898529699	-1.9101535927
H	-0.287724436	-0.2914046167	-0.0658657785
H	-0.8041956989	-2.7168436024	-1.8652344217
H	-1.1617323202	-2.6188063541	-0.1325469754
H	0.5219891801	-2.5670018011	-0.693894989

calc_1c conf_3

C	-7.5538907057	-1.3447939653	3.0346003195
C	-6.6838997021	-0.8246443147	3.9848858879
C	-5.6177136657	0.0104724633	3.6173917067
C	-5.4236663114	0.3078310232	2.2839213619
C	-6.2784649592	-0.2224788186	1.2990730035
C	-7.369018542	-1.0384768598	1.6855623168
O	-8.2336556537	-1.5305253666	0.8010667442
O	-6.8196882025	-1.0885992785	5.3030903574
C	-4.3261512237	1.2187726979	1.8122581204
C	-3.8576469848	0.803220257	0.428347968
O	-4.9825864741	0.7569092596	-0.4789262043
C	-6.0862905324	0.0890431062	-0.1122105726
O	-6.8940854011	-0.2136271855	-0.9850645739
C	-2.8345698327	1.7567561119	-0.1678536396
C	-1.9925900915	1.1872670368	-1.3071864521
C	-2.7460983417	0.8629497289	-2.5944446142
C	-1.7906421164	0.2386946857	-3.6100027165
C	-1.0638722421	-0.9497186787	-2.9840322715
C	-0.4004205504	-0.5433136446	-1.6717121664
O	-1.351674101	0.0330832117	-0.7859559268
C	0.2346303459	-1.7056872056	-0.9354742082
H	-8.3900733957	-1.97824557	3.3136898803

H	-4.9672204649	0.4044855297	4.3896395756
H	-7.9736061243	-1.1580776907	-0.0809409649
H	-7.5788678633	-1.6720370015	5.4332457373
H	-3.4805250119	1.1971248046	2.5056428482
H	-4.6899496206	2.2548841597	1.7761050305
H	-3.4318562344	-0.204924604	0.4735294366
H	-3.3448991549	2.6675163609	-0.4993166318
H	-2.1445374695	2.0415482124	0.6340661049
H	-1.2177408531	1.9376901668	-1.5479505596
H	-3.5646557174	0.1722240392	-2.3729166894
H	-3.2007855783	1.7768404803	-2.9927984186
H	-2.3337447082	-0.0700719288	-4.5091295245
H	-1.052703099	0.9876637657	-3.9295347718
H	-1.7785196191	-1.7562799249	-2.7763155094
H	-0.307991323	-1.3517128137	-3.6684222447
H	0.3708833202	0.216437064	-1.8915553746
H	1.0126806516	-2.1706882347	-1.5475459041
H	-0.5199249809	-2.4620572866	-0.7001470984
H	0.6840325348	-1.3664537929	0.0013206384

calc_lc conf_4

C	-7.9641493562	-0.9651084611	3.2559244832
C	-7.0736344323	-0.4394728669	4.18373287
C	-5.874416458	0.1678892698	3.7799100992
C	-5.5710228921	0.2306920565	2.4355637001
C	-6.4462816001	-0.3128007607	1.475379385
C	-7.6671063788	-0.8954173541	1.8939053868
O	-8.5515212589	-1.385872648	1.0286797363
O	-7.3137330936	-0.479338293	5.512405506
C	-4.3282969022	0.8974092314	1.9179418455
C	-3.8608269006	0.2107163124	0.6466548493
O	-4.9259147637	0.1838488562	-0.3267287227
C	-6.1391847488	-0.249043834	0.0514202856
O	-6.938906774	-0.5587123306	-0.8253819916
C	-2.6806887604	0.8993418456	-0.0096465872
C	-2.2137522154	0.2786035199	-1.321506283
C	-1.7543516454	-1.1724470206	-1.203785843
C	-1.1630140645	-1.6497129933	-2.5299898635
C	-0.0983819301	-0.6725083117	-3.0232576722
C	-0.649483738	0.7504943804	-3.0436549978
O	-1.1473186107	1.1049937585	-1.7613270575
C	0.3886158137	1.7903295502	-3.4146657526
H	-8.9007476995	-1.4215895258	3.5602768925
H	-5.2117249847	0.5773198358	4.5335336234
H	-8.1953862874	-1.1922432946	0.1234336935
H	-8.160628067	-0.9172368672	5.6695769256
H	-3.5300656876	0.87230259	2.6655176767
H	-4.5341956163	1.9537157265	1.6992930913
H	-3.6141105862	-0.8329651845	0.8796529891
H	-2.9338995613	1.9477730589	-0.2002936083
H	-1.8415460872	0.8943321989	0.6959361218
H	-3.0349097602	0.3295982731	-2.0538946501
H	-0.9981114511	-1.2391171484	-0.4102977562
H	-2.5951972362	-1.812857986	-0.9156161531
H	-0.7469558551	-2.6571879417	-2.4245281009
H	-1.965686263	-1.7182082009	-3.2762462122
H	0.7719779784	-0.696394303	-2.3549835891
H	0.2510024825	-0.9499834339	-4.0243629688

H	-1.4835313189	0.7919662976	-3.7665024124
H	0.785795247	1.5989746326	-4.4156435826
H	1.218137414	1.7691007337	-2.7016616682
H	-0.0508459499	2.790816632	-3.3987636879

calc_1c conf_5

C	-7.0696408206	0.2747556966	3.4375822878
C	-5.875547279	-0.3085734157	3.8414532968
C	-5.0075061315	-0.9084414127	2.9155945132
C	-5.3462082242	-0.9074966502	1.5778530777
C	-6.539774651	-0.3034984702	1.1393611496
C	-7.4197633049	0.2734338705	2.0855983637
O	-8.5792784229	0.8229310669	1.7324116569
O	-5.4908076868	-0.335402475	5.1369112358
C	-4.5114189802	-1.5769249601	0.5248218945
C	-4.6106038236	-0.8304986136	-0.7967566944
O	-5.9966289645	-0.6846631084	-1.1821068705
C	-6.8951065613	-0.2753497644	-0.2768382938
O	-7.991747915	0.0991227899	-0.6818047707
C	-3.9521510721	0.5466263345	-0.8229980464
C	-2.4386957597	0.5123487452	-0.6690345765
C	-1.8072300742	1.8923980041	-0.8317981166
C	-0.2839086201	1.7890729623	-0.7907861509
C	0.1999155757	0.7368120228	-1.7865287194
C	-0.5323637494	-0.5846581446	-1.5712721631
O	-1.939457523	-0.3905787146	-1.6420209128
C	-0.182359549	-1.6387541559	-2.6019432731
H	-7.7527378307	0.72649847	4.1500611918
H	-4.0929242249	-1.3681863603	3.2720122808
H	-8.6693433911	0.6774221073	0.7543458035
H	-6.163713228	0.0999785496	5.676642855
H	-4.8760199428	-2.6010066845	0.3736697758
H	-3.4659584102	-1.6584876384	0.8333820643
H	-4.1793412641	-1.4349438203	-1.5941068829
H	-4.1999979704	1.0083848655	-1.7846317069
H	-4.3741534759	1.1819390362	-0.0365732502
H	-2.1743539369	0.1316472037	0.334304015
H	-2.1273663656	2.3082132626	-1.7953015736
H	-2.1761128247	2.5627502486	-0.0473775374
H	0.1736848315	2.7612042558	-1.0016851207
H	0.0347956028	1.5056983733	0.2215152245
H	0.006614115	1.0753421772	-2.8123137047
H	1.2804375799	0.5790993328	-1.693476788
H	-0.2835337874	-0.9612504501	-0.5627416033
H	-0.4330833727	-1.2847502428	-3.6061140913
H	-0.741161144	-2.5591867329	-2.4143021049
H	0.8865525775	-1.8680275606	-2.5710077347

calc_1c conf_6

C	-7.2329173675	-1.3152185264	3.2402709552
C	-5.9002747923	-1.3486937135	3.6324195284
C	-4.8951857156	-0.7582878565	2.8514783919
C	-5.2376824998	-0.1431411063	1.6642766885
C	-6.578366568	-0.1135421971	1.2343825734
C	-7.5872422613	-0.685235689	2.0463391364
O	-8.8749120625	-0.6452494772	1.7098909812
O	-5.5054156137	-1.9425454874	4.7807168603

C	-4.2285938598	0.5452276391	0.7913226498
C	-4.6455542062	0.4363285269	-0.6631675422
O	-5.9834081019	0.957774813	-0.8398188993
C	-6.9539800861	0.5409468086	-0.0133983654
O	-8.1185201527	0.7422433311	-0.344260144
C	-3.7910972141	1.2186170662	-1.6495638894
C	-2.3852981085	0.6911459389	-1.9158330791
C	-2.3138463702	-0.7512686318	-2.4148210564
C	-0.8574581736	-1.150812013	-2.6457730938
C	-0.0280791585	-0.8639206549	-1.395100703
C	-0.2295575033	0.5761586892	-0.932247871
O	-1.6120026908	0.849181475	-0.7356066975
C	0.4745220145	0.892286513	0.3717438242
H	-8.0172251113	-1.7554867556	3.8480563898
H	-3.868859365	-0.7935276286	3.1979925184
H	-8.9287424293	-0.1088617254	0.8769075785
H	-6.2785984739	-2.3083569952	5.2301479914
H	-3.2282482629	0.1266925027	0.9146759756
H	-4.1613893399	1.6072341243	1.0626213804
H	-4.6846280214	-0.6222646674	-0.9481061657
H	-4.3311102862	1.2385395579	-2.6022685365
H	-3.7147735228	2.255455047	-1.3050878221
H	-1.9502852305	1.3367801558	-2.6994296313
H	-2.7578980055	-1.4196124924	-1.6676643748
H	-2.8992678108	-0.8559845277	-3.3353991038
H	-0.7863407758	-2.2075058262	-2.9233548809
H	-0.4533538136	-0.5761025659	-3.4900806703
H	-0.3332681201	-1.5350147039	-0.5818851337
H	1.0362236261	-1.0449186381	-1.5829530908
H	0.1440947358	1.252413294	-1.7215414719
H	1.5546393215	0.7562977116	0.2677789022
H	0.1187340698	0.2317969783	1.1682387164
H	0.2801673077	1.925431707	0.6701011812

calc_lc conf_7

C	-7.6031760476	0.3254319419	3.1524191012
C	-6.7553354562	-0.4346459666	3.9481054519
C	-5.6775393392	-1.1442812991	3.3952067186
C	-5.4523980012	-1.0736139838	2.0360940961
C	-6.2839446386	-0.2936865297	1.2098987569
C	-7.3837988631	0.394864811	1.7752074977
O	-8.2243960792	1.1153087895	1.0363939219
O	-6.9240659298	-0.5365147121	5.2848127254
C	-4.3636793982	-1.8462405571	1.3490946951
C	-3.8287780576	-1.0748510246	0.1504574904
O	-4.9203809288	-0.7275182799	-0.7334027315
C	-6.0405353616	-0.1948271637	-0.2249770129
O	-6.8216436133	0.3488591007	-1.0007681505
C	-3.0193779192	0.1640728307	0.5300048148
C	-2.1332973562	0.7230183814	-0.5801828581
C	-2.8610842652	1.3251304735	-1.7799338169
C	-1.8447757878	1.7814643679	-2.8244508456
C	-0.8999960618	0.6331143669	-3.1711814605
C	-0.2740269143	0.0530696889	-1.9066763823
O	-1.28023875	-0.3390503924	-0.9814413497
C	0.5820213956	-1.1699630845	-2.1669825565
H	-8.4473680543	0.8639026826	3.5715651353
H	-5.0477804989	-1.7380801432	4.0475282033

H	-7.9364778554	0.9988760344	0.0936470878
H	-7.6910626643	-0.0115188207	5.5490199284
H	-4.7703370086	-2.803458629	0.9980293204
H	-3.5467705464	-2.0806567319	2.0370674559
H	-3.1999421059	-1.7237924983	-0.4600832352
H	-3.6825085141	0.9498383953	0.9071456384
H	-2.3594158312	-0.1195479291	1.3574232223
H	-1.5108974337	1.5176602072	-0.1297067187
H	-3.5343442802	0.5785738454	-2.2110359282
H	-3.4841755005	2.1634857442	-1.4480322231
H	-2.3543583601	2.1472774163	-3.7217651044
H	-1.2616879708	2.6242898433	-2.427682133
H	-1.4548817541	-0.164293803	-3.6818282802
H	-0.1085501831	0.9674948268	-3.8517250517
H	0.3434441419	0.837073145	-1.4326067935
H	1.4064546879	-0.9261161116	-2.84297941
H	-0.0182196909	-1.9623308024	-2.6239650999
H	0.9993267959	-1.5518184302	-1.2317141191

calc_lc conf_8

C	-6.9856162526	0.1575908949	3.4788579687
C	-6.5784694713	-1.1438056255	3.7427891714
C	-6.0381251518	-1.9573549777	2.7341644408
C	-5.9007019441	-1.4470504485	1.4600888507
C	-6.2858634508	-0.1241465128	1.1702525038
C	-6.8529731106	0.6775862115	2.1898704217
O	-7.2677901036	1.9219310376	1.9656507354
O	-6.6847532568	-1.6949682455	4.9714729648
C	-5.394640773	-2.26848598	0.3093142576
C	-4.6464566894	-1.3988768532	-0.6924028407
O	-5.4614639182	-0.2757703277	-1.0941946833
C	-6.1208891947	0.4351522806	-0.1659722504
O	-6.5670693831	1.5297434135	-0.4954621586
C	-3.2916918106	-0.9205251665	-0.187022105
C	-2.5660988184	0.0529297556	-1.1093219318
C	-2.2934708712	-0.4862845472	-2.5109547063
C	-1.4335200509	0.5016789284	-3.2989192466
C	-0.1903479769	0.8855569129	-2.4997320882
C	-0.5791750036	1.3519347759	-1.0995655401
O	-1.3498695493	0.3547814401	-0.4440603228
C	0.6137414547	1.6396727064	-0.2103348142
H	-7.4169512699	0.7872538029	4.2506851743
H	-5.7446580568	-2.9720072726	2.9770661662
H	-7.1352853293	2.0904368491	0.9968633383
H	-7.0632054899	-1.0460544343	5.5792563046
H	-6.2467678069	-2.7394963376	-0.1970250979
H	-4.7427715048	-3.0753976167	0.6564026603
H	-4.5153618224	-1.9546758696	-1.6233349515
H	-3.3998051771	-0.4454541437	0.7938300412
H	-2.6523167342	-1.7996704413	-0.0416433313
H	-3.161601521	0.9758194891	-1.202604278
H	-1.7725160376	-1.4490814966	-2.4233732062
H	-3.2383369844	-0.6634345436	-3.0359856775
H	-1.1558422127	0.0792457223	-4.2703854041
H	-2.0241463308	1.4039528456	-3.5066055377
H	0.4762944178	0.0189404086	-2.4024214248
H	0.3728230496	1.6746264899	-3.011098709
H	-1.1942507063	2.2646297418	-1.1928927234

H	0.2823603799	1.9551894302	0.7821222654
H	1.2333070029	2.4318982586	-0.6402770912
H	1.2272774598	0.7409894448	-0.0970971448

calc_1c conf_9

C	-6.8689042652	-0.4293935992	3.4232670961
C	-5.704460115	-1.1844858334	3.4891072731
C	-4.9549224957	-1.4711825659	2.3380533991
C	-5.3808092852	-0.9845676491	1.1190199024
C	-6.5448239729	-0.1980769793	1.0283306106
C	-7.3063066681	0.0629695423	2.1924444877
O	-8.4347170771	0.7691379673	2.1586162041
O	-5.2388038432	-1.6839221784	4.6559546973
C	-4.6753220604	-1.3000684898	-0.1677056553
C	-4.806075021	-0.1478944244	-1.1523730394
O	-6.1954480017	0.2183516099	-1.3239497908
C	-6.9899397749	0.3425085882	-0.2509173838
O	-8.071073881	0.904374939	-0.4014931338
C	-4.0183645231	1.1110228699	-0.7874037503
C	-2.5127210817	1.0759939081	-1.0368255589
C	-2.1004167431	0.8491758819	-2.4906570696
C	-0.5768559525	0.8451432021	-2.6038215348
C	0.0216974868	-0.147766479	-1.6091077599
C	-0.5108552865	0.1095754303	-0.2021192265
O	-1.9334895405	0.0903886376	-0.1951007321
C	-0.0497090426	-0.9176479359	0.8117824716
H	-7.4610465258	-0.21659934	4.3078679229
H	-4.0568694719	-2.0709098833	2.4278511369
H	-8.6008667113	0.9818774124	1.203584973
H	-5.8339142811	-1.4236268634	5.3712480533
H	-5.127653405	-2.1962680065	-0.6118795394
H	-3.6164290483	-1.5031043447	-0.0006070384
H	-4.5203709738	-0.4862948675	-2.1498045671
H	-4.4317942006	1.9343208444	-1.3796643728
H	-4.1893218427	1.3545396314	0.2665453575
H	-2.1207584794	2.0626394821	-0.7315190792
H	-2.4906495907	-0.1145929201	-2.8384210875
H	-2.5381881447	1.6273624533	-3.1259805796
H	-0.2659406605	0.6043774967	-3.6256673052
H	-0.1947807229	1.8521075419	-2.3881929585
H	-0.245266612	-1.1726233414	-1.8978001599
H	1.1157691389	-0.0858503104	-1.6059324229
H	-0.1804651521	1.1131471298	0.1191493566
H	-0.3649547574	-1.9209056341	0.5092787344
H	-0.4786563626	-0.7037756904	1.7939230366
H	1.0404789487	-0.9104572325	0.8979190325

calc_1c conf_10

C	-7.8142626654	-0.1171483809	3.4386800573
C	-6.731993722	-0.6762385619	4.1067375596
C	-5.5151254059	-0.9170690674	3.4497523606
C	-5.4000527468	-0.6053421317	2.1107388742
C	-6.4883122388	-0.0575853259	1.4044364785
C	-7.6995455244	0.2113825957	2.0870204945
O	-8.7445374101	0.7710670823	1.4821588569
O	-6.7889928932	-1.0094520591	5.4144877322
C	-4.1217254732	-0.7912853818	1.3430891768

C	-4.4404392763	-1.126548554	-0.104499541
O	-5.2793794794	-0.1020776321	-0.6796096246
C	-6.3772458026	0.2830035016	-0.0091187135
O	-7.2315895161	0.9177856574	-0.6185326807
C	-3.2445698577	-1.3262504495	-1.0208871702
C	-2.1973144297	-0.2181132527	-1.097713709
C	-2.6483623944	1.0440759663	-1.8274073558
C	-1.4779790369	2.012666571	-1.9884923545
C	-0.2820399582	1.3025054209	-2.6180524729
C	0.0463241459	0.0279168334	-1.8464316446
O	-1.0946640433	-0.8141172994	-1.7657427923
C	1.1504356045	-0.7915101817	-2.4838168099
H	-8.7522058092	0.0879823435	3.945019922
H	-4.6897402406	-1.3419022623	4.0092416029
H	-8.4526543956	0.9856148439	0.5588190458
H	-7.6682386042	-0.8023198196	5.7577358661
H	-3.5125288721	-1.5877366678	1.7807187828
H	-3.5305137523	0.1315318357	1.3916737719
H	-5.027797957	-2.0540881334	-0.1186815891
H	-2.7275147869	-2.2332849566	-0.6881912608
H	-3.6154713218	-1.5311445826	-2.0306726762
H	-1.8712730217	0.0602177985	-0.079182751
H	-3.0315673744	0.7522032607	-2.8128581433
H	-3.4771656851	1.5151918994	-1.2925394618
H	-1.7775212933	2.8767943262	-2.5905703937
H	-1.1898542568	2.4037686951	-1.0027809578
H	-0.5138061403	1.0282708272	-3.6550640647
H	0.5961621589	1.9579795264	-2.6418030221
H	0.3456325173	0.3089354341	-0.8201622531
H	2.0766610047	-0.2124803747	-2.540228559
H	0.8641107432	-1.0888132268	-3.4969418432
H	1.339659211	-1.6973861174	-1.9023287373

calc_1c conf_11

C	-7.3872487536	0.6971484287	2.2474686633
C	-6.7090704648	0.486869927	3.4411119493
C	-5.568408246	-0.3288559026	3.4966846151
C	-5.1079415417	-0.921271148	2.3382459526
C	-5.7634176995	-0.7067051082	1.1115031644
C	-6.9295666799	0.0936298199	1.0742995191
O	-7.6142073876	0.2955122677	-0.0489962151
O	-7.1108565206	1.0462069742	4.6044516561
C	-3.9279206329	-1.8514033386	2.3191912328
C	-3.1907545166	-1.7423671212	0.9915213522
O	-4.1002896254	-1.9577573781	-0.1046875089
C	-5.2775282371	-1.318593504	-0.1214852795
O	-5.9159248761	-1.3087353142	-1.1691882826
C	-2.4223187097	-0.4289558411	0.8433102566
C	-1.9266493581	-0.141310583	-0.5689554581
C	-0.7083687372	0.7786797578	-0.6046286239
C	-0.3473036668	1.1154496266	-2.0512199687
C	-1.5736927815	1.6253030264	-2.8079791976
C	-2.7492369759	0.6658156855	-2.6401381117
O	-3.0078680709	0.4585268846	-1.2579041954
C	-4.0382175988	1.1676355286	-3.2574920396
H	-8.2792669553	1.3139385067	2.1998678441
H	-5.0750153622	-0.4801479475	4.4498544103
H	-7.1709064594	-0.2539912262	-0.7464911684

H	-7.8978649992	1.582810683	4.4423906829
H	-4.2765005184	-2.8834144345	2.4519725293
H	-3.2428021688	-1.6349171684	3.144348501
H	-2.4888092044	-2.5740704537	0.8887996628
H	-3.0410162974	0.4187551753	1.1561717818
H	-1.5711452428	-0.4780010733	1.533014667
H	-1.6646714413	-1.089948618	-1.0711326047
H	-0.9496361484	1.696279248	-0.0529973386
H	0.1372409281	0.3018007796	-0.0949175416
H	0.4627589518	1.8517968904	-2.0851836641
H	0.0313356634	0.2103049924	-2.5454647443
H	-1.8727802324	2.6065088313	-2.41785612
H	-1.3461473486	1.7533899629	-3.8724364276
H	-2.482907864	-0.3050254326	-3.0930666782
H	-3.9192733478	1.3091271017	-4.3356781876
H	-4.32520445	2.1247406021	-2.8113710536
H	-4.8405964223	0.4482408927	-3.0799380308

calc_lc conf_12

C	-7.7554800982	-1.076401486	3.1647219607
C	-6.992884387	-0.3442361131	4.0661564858
C	-5.9190777476	0.4497990563	3.6358204564
C	-5.6091291491	0.4905741566	2.2913531965
C	-6.3517341484	-0.2580975765	1.3599795257
C	-7.4528899573	-1.0294706247	1.8027294695
O	-8.2181543983	-1.7190950571	0.9599995766
O	-7.245996174	-0.3530580054	5.3939618873
C	-4.4987117409	1.3404922478	1.7430497111
C	-3.8945641329	0.6863000627	0.5112480907
O	-4.9247676238	0.4169281228	-0.4607402284
C	-6.0394299564	-0.2104642256	-0.0653881499
O	-6.7643005591	-0.7020957039	-0.924880518
C	-2.8429918382	1.5508817007	-0.1767673121
C	-1.7302467089	0.7658888841	-0.8562982359
C	-0.7129177944	1.6671243198	-1.552340015
C	0.3229697825	0.8222979125	-2.2923133483
C	-0.3729693061	-0.1941219617	-3.1958788064
C	-1.4073909804	-0.9947491491	-2.4091335278
O	-2.3313510687	-0.1209805709	-1.7752043455
C	-2.2204225349	-1.9377413861	-3.2724969514
H	-8.5980976549	-1.6790328488	3.4890878046
H	-5.3557515562	1.0160590259	4.3685672093
H	-7.8876846887	-1.5073893356	0.0478755531
H	-8.0016475537	-0.9293592091	5.5684700926
H	-3.7195646464	1.494027713	2.4958139564
H	-4.8844828302	2.3324226376	1.4703507895
H	-3.4608876599	-0.2810644272	0.7947156523
H	-3.3501888017	2.1852483388	-0.911085202
H	-2.3835126035	2.2150131382	0.5644925283
H	-1.1983086141	0.1729605143	-0.0869788021
H	-1.248590126	2.3074600693	-2.26443437
H	-0.2298811926	2.3237321562	-0.8192672594
H	0.9968231872	1.4607744428	-2.8732475921
H	0.9472105879	0.2913848542	-1.5606346516
H	-0.8892009494	0.3245474874	-4.0135721695
H	0.3558114797	-0.8752124811	-3.6497584055
H	-0.8810984604	-1.5728175375	-1.6278226659
H	-2.9632575371	-2.4630023774	-2.6675126166

H -1.5723211731 -2.6756583151 -3.7540959483
H -2.7499286848 -1.3778684491 -4.0485428248

calc_1c conf_13

C -7.5876889952 -0.75212149 3.6003755176
C -6.4039861811 -0.2923254145 4.1640807557
C -5.3647603653 0.2124762422 3.3668373806
C -5.5207523925 0.2385247063 1.9962927764
C -6.7013056557 -0.2409229757 1.3982668758
C -7.7547038856 -0.7175730894 2.2148569976
O -8.9098697052 -1.1390445035 1.7058023341
O -6.1930298854 -0.3006420637 5.4985429105
C -4.4793377299 0.8003479163 1.0713453312
C -4.500071867 0.0558394954 -0.2529277424
O -5.8284318577 0.1172370981 -0.8196274457
C -6.8780525724 -0.2079230119 -0.0491264975
O -7.9459901992 -0.450320747 -0.6016506992
C -3.5589573998 0.609337958 -1.3171803764
C -2.2179067341 -0.1088318282 -1.4247805068
C -1.3411221888 -0.0449418615 -0.1757097305
C 0.027524079 -0.6674851844 -0.4509651684
C 0.6481924817 -0.055294117 -1.7041825517
C -0.3314246474 -0.125569162 -2.8716478805
O -1.5608638933 0.495874167 -2.5236881686
C 0.1719781246 0.5696308034 -4.1203823341
H -8.4019015928 -1.1277113103 4.2121577377
H -4.4623725522 0.5752070431 3.8452910125
H -8.8601120187 -0.9777850675 0.728149615
H -6.9706364404 -0.6656978582 5.9410167731
H -3.4846058041 0.7469258513 1.5208331594
H -4.6868589375 1.8613502792 0.8775476941
H -4.2850863798 -1.0068941358 -0.0735776749
H -4.0563337132 0.5160638809 -2.2862560329
H -3.3798662784 1.6781409262 -1.1545886417
H -2.40529334 -1.1727179598 -1.6614078335
H -1.2221304934 1.007200512 0.1141639831
H -1.8286388605 -0.5655096148 0.6567744155
H 0.687756108 -0.5392888797 0.413132384
H -0.0916106235 -1.7496781603 -0.5967017253
H 0.8959787855 0.9983924324 -1.5232101015
H 1.5792796101 -0.5691433027 -1.9686057836
H -0.5291818774 -1.188331207 -3.0993345796
H 1.1017539361 0.1109582797 -4.4687752219
H 0.3612653452 1.6272921883 -3.9150173331
H -0.5708434027 0.503953165 -4.9191236244

calc_1c conf_14

C -7.5733800752 -0.7023863918 3.5974068427
C -6.3252261167 -0.395695361 4.1248720588
C -5.2674923663 0.0177608288 3.300350087
C -5.471195805 0.1080926105 1.9385696797
C -6.7197147351 -0.2167284369 1.3762415492
C -7.7877114395 -0.6024370734 2.2217559714
O -9.00107192 -0.8775805101 1.7494866918
O -6.065666302 -0.4731802236 5.4485084998
C -4.4025794642 0.5790539613 0.9930275878
C -4.5655832768 -0.0945157505 -0.3580337456

O	-5.8997517934	0.121254373	-0.8637110639
C	-6.9476977915	-0.1167596389	-0.0607707991
O	-8.0559496641	-0.225230449	-0.5746636186
C	-3.6363587575	0.3955548945	-1.4562097063
C	-2.1552973725	0.0978554398	-1.2102983625
C	-1.365437261	1.2724555835	-0.6332301026
C	0.1148752444	0.917262145	-0.5180111701
C	0.6354984288	0.4033523203	-1.8579598968
C	-0.2575444349	-0.7154983384	-2.3861522215
O	-1.609921962	-0.2842418995	-2.4628422418
C	0.129816985	-1.1875091392	-3.7729949946
H	-8.4004955213	-1.0074719903	4.2307007129
H	-4.312204918	0.2600843675	3.7515215502
H	-8.9711514622	-0.6925739986	0.7752526955
H	-6.8609006243	-0.7680059998	5.9115858052
H	-3.4110520465	0.3614509599	1.3998986448
H	-4.4698541895	1.6676763156	0.8629069687
H	-4.4405776143	-1.178610703	-0.2316617599
H	-3.9237997697	-0.1118868741	-2.3809081786
H	-3.7982296571	1.4676580393	-1.615069502
H	-2.062286095	-0.7608320793	-0.5174839976
H	-1.491554523	2.1278244449	-1.3087299258
H	-1.7719055099	1.5680806673	0.3402012334
H	0.693895865	1.784317615	-0.1832273303
H	0.2448880605	0.1393790755	0.2468853728
H	0.6413626687	1.2180576383	-2.5931913444
H	1.6653783363	0.040749328	-1.764443093
H	-0.2037728949	-1.5657339057	-1.6821257951
H	0.0661311815	-0.3602808296	-4.4858858944
H	-0.5430733671	-1.9804818438	-4.1084663009
H	1.1535919605	-1.5722791717	-3.7771009062

calc_lc conf_15

C	-5.6452403417	0.0011588026	3.2361232899
C	-4.9803158058	-1.2133821803	3.1145861631
C	-4.8440134971	-1.8471819548	1.8719540301
C	-5.3689850325	-1.246760015	0.744456258
C	-6.0448120497	-0.0178704019	0.8394844386
C	-6.1940326004	0.6044191006	2.104218892
O	-6.8445417079	1.7560779775	2.2556854115
O	-4.4373926237	-1.8439245536	4.1803779778
C	-5.3256118477	-1.9174486302	-0.5976784524
C	-5.4227836725	-0.942643589	-1.7682994169
O	-6.4169373949	0.0817504405	-1.5454553435
C	-6.6234139222	0.618471764	-0.3373011381
O	-7.31627364	1.6308884633	-0.2774218802
C	-4.1267740158	-0.2907634005	-2.2490689689
C	-3.250126171	0.4265082167	-1.2320803626
C	-2.2707700558	1.3866585271	-1.9047318265
C	-1.3202205944	1.9867362934	-0.8721463654
C	-0.6702707667	0.8786248785	-0.0477406463
C	-1.7262876376	-0.0599440403	0.5301966342
O	-2.5521107183	-0.5758403429	-0.5086585917
C	-1.1227456397	-1.2499916936	1.2481929093
H	-5.7652946259	0.4926736927	4.196523834
H	-4.33135889	-2.8005279071	1.8193865411
H	-7.1983088113	1.9952639619	1.3590350368
H	-4.6018385092	-1.3202445583	4.9755507312

H	-6.1706821107	-2.6153539598	-0.6552343371
H	-4.4106201698	-2.5052082119	-0.699138263
H	-5.8283326831	-1.4848024775	-2.6264014019
H	-3.5113970077	-1.0661409956	-2.7209983853
H	-4.4099500168	0.415255598	-3.0370939258
H	-3.872514488	1.0058082834	-0.5299534479
H	-1.7016912406	0.8323076989	-2.6625746346
H	-2.8282662102	2.1738738366	-2.4244944097
H	-0.5590524531	2.6042754111	-1.3605182109
H	-1.8847617946	2.6525600899	-0.2055919567
H	0.004654567	0.2889595117	-0.6814446276
H	-0.0681523362	1.2998250161	0.7653790677
H	-2.3630786759	0.5069394705	1.2306174083
H	-0.5243806471	-1.8467982667	0.5531955723
H	-1.906767138	-1.8845869024	1.6665307101
H	-0.4755470233	-0.9166229531	2.0645316871

calc_lc conf_16

C	-7.6970936644	-1.0327655031	3.4056697935
C	-7.2957565351	0.1459129588	4.0194291181
C	-6.3227341141	0.9754952298	3.4384973739
C	-5.745787238	0.6060001776	2.2379694291
C	-6.1217439544	-0.5908394128	1.6059647122
C	-7.1266656423	-1.4050417033	2.1896816188
O	-7.5479868748	-2.5259727063	1.6090986102
O	-7.8844207181	0.4600069282	5.1952453212
C	-4.7268673322	1.4566122056	1.534317051
C	-3.7674468303	0.5777788745	0.7482121154
O	-4.496860211	-0.2774632951	-0.1476525793
C	-5.5293171268	-0.985696464	0.3314822943
O	-5.9413753143	-1.9285604322	-0.33573616
C	-2.7629971579	1.3728195972	-0.0690974554
C	-1.7690767874	0.5394525523	-0.8737773464
C	-0.473524346	1.2928236955	-1.1762410748
C	0.4303286901	0.4511267895	-2.0773040566
C	-0.340389821	-0.0444104268	-3.3004597648
C	-1.6424335552	-0.7173525514	-2.8751113576
O	-2.409574865	0.1716124074	-2.0770873275
C	-2.5224601513	-1.1297619392	-4.0372352345
H	-8.4591568035	-1.6548229317	3.857578025
H	-6.0289654518	1.900469672	3.9285266161
H	-7.0785137574	-2.5851711559	0.7377723687
H	-7.5321029101	1.301851983	5.5113502679
H	-4.1679157455	2.0693349869	2.2483119707
H	-5.2291131249	2.1443557802	0.8407615467
H	-3.2292358446	-0.0760198131	1.4490841849
H	-3.2921545309	2.034080501	-0.7639084122
H	-2.2124125733	2.0092959106	0.633966911
H	-1.5143169241	-0.3747997498	-0.3061458251
H	-0.7305701611	2.2350587354	-1.6771818884
H	0.0402174503	1.547638504	-0.2415798099
H	1.313198182	1.0242883848	-2.3798578701
H	0.7985112297	-0.4135076911	-1.508222886
H	-0.587959686	0.8008997238	-3.9549953859
H	0.2688702965	-0.7427929422	-3.8855043046
H	-1.3975969153	-1.6083616805	-2.2699480842
H	-2.0081410489	-1.856083371	-4.6731954938
H	-2.7818831753	-0.2574558564	-4.6445001205

H -3.4475749564 -1.5770359723 -3.6661768909

calc_1c conf_17

C -6.8324690593 0.3461196024 3.4544488479
C -5.7402888705 -0.4567041367 3.7571197673
C -5.0605901875 -1.169668687 2.7565514605
C -5.4821835392 -1.0575541762 1.4473963146
C -6.5727494383 -0.234279119 1.1107411415
C -7.2677491785 0.4563381737 2.1320356094
O -8.3298142699 1.2162381539 1.8777291939
O -5.2810928226 -0.600056364 5.0196997922
C -4.8565079863 -1.8287230862 0.3219664041
C -4.9081877577 -1.0296772588 -0.9728549898
O -6.2660496571 -0.627097022 -1.2522471201
C -7.0131138112 -0.0942141041 -0.2739592458
O -8.0484634397 0.4825280724 -0.5904940783
C -4.0060542685 0.1996966511 -1.031750653
C -2.5099508017 -0.1279563527 -0.9898898105
C -1.8463813647 0.1855524098 0.349455598
C -0.3456131482 -0.0862940938 0.2789388303
C 0.2619511994 0.6412261102 -0.9189697901
C -0.516101759 0.3247490159 -2.1939154994
O -1.89581923 0.6204284572 -2.0261434256
C -0.0420113902 1.1163443127 -3.3960166643
H -7.3724267928 0.8875158809 4.2249279272
H -4.2251942463 -1.8016729543 3.0353098008
H -8.5117339748 1.1257977765 0.9062217641
H -5.8238526947 -0.0689581263 5.6172573458
H -5.4095506391 -2.7654553043 0.1761715409
H -3.8242372366 -2.1058838976 0.5532870344
H -4.6610961228 -1.6853164475 -1.8118479233
H -4.2066227386 0.7073024401 -1.9788817256
H -4.2706113875 0.8952781889 -0.2280564827
H -2.3597245461 -1.2031530944 -1.2100350126
H -2.0235238028 1.2449779888 0.5729397784
H -2.3159128449 -0.3919074287 1.1538925292
H 0.1464559349 0.2187738202 1.2083707774
H -0.1754003082 -1.1667397111 0.173835415
H 0.2267425334 1.7254453535 -0.7530246765
H 1.314443483 0.3657647388 -1.0507622192
H -0.4156000904 -0.755653728 -2.4046861512
H 1.010121608 0.9045714548 -3.6067488513
H -0.1504192834 2.1887002991 -3.209216362
H -0.6336160697 0.8616161922 -4.2787961913

calc_1c conf_18

C -6.8886100406 0.1203256729 3.5431486779
C -5.863528391 -0.7819705815 3.7966693068
C -5.1861511564 -1.4285799533 2.7506346726
C -5.5416493181 -1.1509167021 1.4466789915
C -6.5616138738 -0.2247674914 1.1621798763
C -7.2561643939 0.3996037621 2.2253395468
O -8.2556178292 1.2525615125 2.0147909264
O -5.4698868769 -1.088328272 5.0524311328
C -4.9092795374 -1.8392143245 0.2707195749
C -4.8559996777 -0.9049410321 -0.931580941
O -6.1802989091 -0.397538463 -1.2136434328

C	-6.9316791848	0.0863360387	-0.2135434502
O	-7.9124792292	0.7622412911	-0.5072156863
C	-3.8736266878	0.2625949024	-0.7999774945
C	-2.498764146	0.0155523162	-1.4150432301
C	-1.6881811302	-1.1121258373	-0.7792858036
C	-0.2805595757	-1.1614923323	-1.3737582663
C	0.373570773	0.2162437803	-1.311393632
C	-0.543430421	1.2676597915	-1.9286734524
O	-1.8140079908	1.2490681274	-1.2931365226
C	-0.0101250542	2.6799006165	-1.7983419393
H	-7.4262302758	0.6126183196	4.347438975
H	-4.4013774553	-2.1368545815	2.9899572661
H	-8.3989720247	1.2779094191	1.0332615049
H	-6.0014474743	-0.5852392857	5.6833521011
H	-5.5038688962	-2.7231984248	0.0068057532
H	-3.9053631681	-2.19023005	0.5204540324
H	-4.6224972435	-1.4789065822	-1.8326244813
H	-4.3000364804	1.1245354791	-1.3207876473
H	-3.7481085408	0.5529857729	0.248853905
H	-2.6287757183	-0.2151135368	-2.4890667716
H	-1.6320447393	-0.9352035583	0.3026414039
H	-2.1924135743	-2.0735303535	-0.9320885185
H	0.3293836603	-1.9065214203	-0.8521892537
H	-0.3430032233	-1.4855277417	-2.4215077262
H	0.5649366211	0.4941717696	-0.2671695205
H	1.3385838889	0.2125868129	-1.8307034496
H	-0.683620743	1.02628219	-2.9976720242
H	0.9559028088	2.7753056981	-2.3022964189
H	0.1203198545	2.9389020864	-0.7436010599
H	-0.7082846255	3.393815165	-2.2420569248

calc_lc conf_19

C	-5.8220617114	0.4257152175	3.2700119386
C	-5.3669409366	-0.8822096315	3.3816304109
C	-5.2990986331	-1.7277279634	2.2636291317
C	-5.6830540902	-1.2424507378	1.0295729054
C	-6.1310747832	0.0821912773	0.8851860026
C	-6.2169063299	0.918866311	2.0249935204
O	-6.6576640019	2.1719522791	1.9534614796
O	-4.9746074424	-1.4079055289	4.5624378004
C	-5.7169400373	-2.1060117794	-0.1970776081
C	-5.4856545102	-1.3209159775	-1.4864543664
O	-6.2673615241	-0.1071500606	-1.5209106143
C	-6.4952357616	0.6182724568	-0.4204274528
O	-7.000131122	1.728639518	-0.5664479712
C	-4.0285479236	-1.063201722	-1.8656220836
C	-3.1104849428	-0.3080417256	-0.9036066227
C	-3.174519606	1.2123902346	-1.0324398744
C	-2.1209364887	1.8668347312	-0.1413068939
C	-0.7448794928	1.2680986366	-0.4217767142
C	-0.7987947023	-0.2551236125	-0.3479681887
O	-1.7994083496	-0.762943304	-1.2193263347
C	0.5043862402	-0.9203153639	-0.7436575709
H	-5.8889890906	1.0814663587	4.1324413969
H	-4.9529384837	-2.7465836881	2.3931976054
H	-6.9219121013	2.320854311	1.0077780939
H	-5.069585019	-0.7406353947	5.2548937519
H	-6.703933112	-2.5826215786	-0.2526056661

H	-4.9820848158	-2.9133886712	-0.1293785311
H	-5.9098991254	-1.8998168655	-2.3107166667
H	-3.5745379888	-2.0493894342	-2.0174400671
H	-4.0160370756	-0.5644546317	-2.8410541772
H	-3.3323903835	-0.5924093831	0.1381005922
H	-2.9864430605	1.4688833388	-2.082776275
H	-4.1706742039	1.5895573629	-0.7868189723
H	-2.1103873136	2.9509631248	-0.294644619
H	-2.3852423776	1.7023187332	0.9121185611
H	-0.4120960296	1.5536172647	-1.4279497381
H	-0.0001200193	1.6466038719	0.2877939599
H	-1.0574674878	-0.5454952485	0.6864404525
H	1.316034863	-0.6021859484	-0.0830602498
H	0.7683561295	-0.6544327596	-1.7714919904
H	0.412262845	-2.0078140177	-0.684728355

calc_lc conf_20

C	-5.3228270666	0.1299785607	3.1837958212
C	-4.8788123361	-1.1853989271	3.2527719082
C	-4.8434312658	-1.9983539649	2.1118857781
C	-5.2521951506	-1.4766325296	0.8975547512
C	-5.7009346062	-0.151938334	0.8002173014
C	-5.7474353459	0.6540390351	1.9616352565
O	-6.1791847385	1.9148532518	1.9309764591
O	-4.4650927443	-1.7451301314	4.4124558595
C	-5.3002876191	-2.3162062232	-0.3458330895
C	-5.2210515262	-1.5088411873	-1.6417730749
O	-6.038037734	-0.325167386	-1.586901011
C	-6.1397421049	0.4086856377	-0.4745782182
O	-6.6549951493	1.5180035292	-0.5682855451
C	-3.8470487928	-1.1837714502	-2.2425616561
C	-2.7841250168	-0.3851772435	-1.4896831631
C	-2.0682836814	-1.1066131775	-0.3488248811
C	-1.033707589	-0.1731747657	0.2790382276
C	-1.688108781	1.1524915544	0.6640362304
C	-2.4253196751	1.7540128689	-0.5290367076
O	-3.3683795064	0.8247009461	-1.0507188596
C	-3.1871149177	3.0199963299	-0.1933194273
H	-5.3639644364	0.7648034998	4.0634334456
H	-4.4993332801	-3.0222576125	2.2047128349
H	-6.4832062745	2.0774146457	0.9975854015
H	-4.5419472577	-1.0946665648	5.122694489
H	-6.2527528889	-2.8615928698	-0.3458782885
H	-4.5115599048	-3.074485268	-0.3378056052
H	-5.7183292052	-2.1014445848	-2.4149796253
H	-3.3963748581	-2.1386273823	-2.5419803771
H	-4.0647556768	-0.6410862139	-3.1685885249
H	-2.0107643908	-0.1421339534	-2.2428528478
H	-2.7902699972	-1.4090868398	0.4148072219
H	-1.5877645919	-2.0141710012	-0.7339935046
H	-0.5702968744	-0.6449088873	1.1518564596
H	-0.2269218866	0.0156327922	-0.4427719587
H	-2.4124943744	0.9911479754	1.4719674735
H	-0.9400352192	1.8644967557	1.030903464
H	-1.6872853645	1.9708618765	-1.3223682758
H	-2.4988742266	3.800144242	0.1448652564
H	-3.916587253	2.8340486892	0.5994483356
H	-3.7253666914	3.3835543077	-1.0719073341

Table S32. Sampled and DFT geometry optimized conformers related to calc_1d, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_1d conf_1	-997.7145519	69.45%	-997.9497948	79.39%	-997.9088768	81.25%
calc_1d conf_2	-997.7129280	12.44%	-997.9478343	9.95%	-997.9065739	7.09%
calc_1d conf_3	-997.7129263	12.41%	-997.9475148	7.10%	-997.9066714	7.86%
calc_1d conf_4	-997.7111995	1.99%	-997.9458455	1.21%	-997.9044298	0.73%
calc_1d conf_5	-997.7111538	1.90%	-997.9459094	1.30%	-997.9053266	1.89%
calc_1d conf_6	-997.7100113	0.57%	-997.9439393	0.16%	-997.9026267	0.11%
calc_1d conf_7	-997.7096731	0.40%	-997.9447707	0.39%	-997.9042392	0.60%
calc_1d conf_8	-997.7092679	0.26%	-997.9439922	0.17%	-997.9027621	0.13%
calc_1d conf_9	-997.7085747	0.12%	-997.9430913	0.07%	-997.9020797	0.06%
calc_1d conf_10	-997.7083106	0.09%	-997.9431711	0.07%	-997.9022704	0.07%
calc_1d conf_11	-997.7080874	0.07%	-997.9423688	0.03%	-997.9018509	0.05%
calc_1d conf_12	-997.7077698	0.05%	-997.9428325	0.05%	-997.9017539	0.04%
calc_1d conf_13	-997.7075785	0.04%	-997.9414658	0.01%	-997.8999649	0.01%
calc_1d conf_14	-997.7075210	0.04%	-997.9409407	0.01%	-997.8992183	0.00%
calc_1d conf_15	-997.7074126	0.04%	-997.9424322	0.03%	-997.9016501	0.04%
calc_1d conf_16	-997.7073787	0.03%	-997.9420120	0.02%	-997.9011330	0.02%
calc_1d conf_17	-997.7072016	0.03%	-997.9414065	0.01%	-997.8996308	0.00%
calc_1d conf_18	-997.7069172	0.02%	-997.9418101	0.02%	-997.9008934	0.02%
calc_1d conf_19	-997.7069151	0.02%	-997.9415833	0.01%	-997.9003288	0.01%
calc_1d conf_20	-997.7067265	0.02%	-997.9411055	0.01%	-997.9009285	0.02%
calc_1d conf_21	-997.7031610	0.00%	-997.9385785	0.00%	-997.8966992	0.00%

Table S33. Cartesian coordinates of the optimized geometries for the conformers related to calc_1d. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S32.

calc_1d conf_1

C	-7.7998868851	-0.9073248861	1.3262749071
C	-7.6726863531	0.4229759537	1.7061205275
C	-6.4127789054	1.0016176843	1.9229288898
C	-5.2794391032	0.2357601728	1.7407686565
C	-5.3794200913	-1.109171306	1.3362482676
C	-6.6573762969	-1.6898083263	1.1513081671
O	-6.812501915	-2.9677180606	0.8125022376
O	-8.7460771385	1.2227587777	1.8910335204
C	-3.8964532542	0.7688724944	1.9885468804
C	-2.9029960377	0.0924496384	1.061853545
O	-2.9865352586	-1.3433661457	1.2025930671
C	-4.1895045575	-1.9317680073	1.1487018077
O	-4.2321562616	-3.1438063333	0.9616009761
C	-1.4578954543	0.4638403555	1.3355628968
C	-0.4875610211	-0.092107393	0.3043259693
C	0.9707618847	0.2047617254	0.6402826841
C	1.8797738735	-0.273855046	-0.4909911646
C	1.3975330665	0.2805642207	-1.83073566
C	-0.0867103095	-0.0131008416	-2.0329784102
O	-0.8407363087	0.4936317909	-0.9394701404
C	-0.6553073549	0.6145267334	-3.2894761093
H	-8.7718071611	-1.3656808767	1.17277511
H	-6.3558173438	2.0395166625	2.2299419993
H	-5.9032778829	-3.3647752422	0.7967820183
H	-9.551243994	0.7199119795	1.7107973709
H	-3.8633466722	1.8514435715	1.8344918136
H	-3.6063862316	0.5809991902	3.0314088198
H	-3.1451255038	0.3306884454	0.0203860349
H	-1.3745371902	1.5567801801	1.3373868437
H	-1.1794104223	0.1063461797	2.3332359128
H	-0.6234160868	-1.1837731186	0.2369410764
H	1.0848762654	1.2876790254	0.7792671023
H	1.2403172282	-0.2780455409	1.5865415165
H	2.9180114344	0.0187114717	-0.3021591004
H	1.8638046485	-1.3713934409	-0.5260153792
H	1.5408209723	1.3684027553	-1.8587068601
H	1.9753578408	-0.1456169362	-2.658759963
H	-0.2259732037	-1.107453093	-2.0752275518
H	-0.5380030233	1.7018254761	-3.2571535587
H	-1.7202053823	0.3868290375	-3.3823709104
H	-0.1396846099	0.2358710722	-4.1765638105

calc_1d conf_2

C	-7.131285893	-0.5450466879	2.6435951439
C	-7.4836031782	0.3966120257	1.6851355258
C	-6.7468239365	0.5401749139	0.4989627546
C	-5.6462000732	-0.2648334117	0.2890131093
C	-5.2550518343	-1.2129931395	1.2534517715
C	-6.0214632982	-1.3659533846	2.4337450164
O	-5.720249746	-2.2706256121	3.3622291793

O	-8.5487234677	1.2138599185	1.8384073247
C	-4.8398776382	-0.2242472125	-0.9768892822
C	-3.3809015077	-0.5574678912	-0.7031756257
O	-3.2765790191	-1.8135954551	0.0062825916
C	-4.0787921945	-2.0528574119	1.0527785851
O	-3.7882915464	-2.9846254849	1.7978323073
C	-2.6247310418	0.5282310196	0.0546567163
C	-1.1393046586	0.2309091158	0.190748399
C	-0.3961616123	1.2751509634	1.0184533703
C	1.103003748	0.9794528997	1.0157835642
C	1.6083546968	0.8109548284	-0.4161676765
C	0.7539549211	-0.2020432786	-1.1737213558
O	-0.6153614084	0.1779351361	-1.1277661654
C	1.1279174125	-0.3255106578	-2.6369395468
H	-7.7052721713	-0.6715710892	3.5561985229
H	-7.0621231338	1.2765258547	-0.2311997278
H	-4.943891353	-2.7807776647	3.0118673983
H	-8.9765388489	1.022464386	2.6834005787
H	-5.2443991611	-0.9610158359	-1.6827550894
H	-4.911923119	0.7536395425	-1.4615629003
H	-2.8564946523	-0.7505414736	-1.6396829169
H	-2.7390474429	1.4720234237	-0.4915303592
H	-3.0651514598	0.6718790003	1.0474669512
H	-1.0108896116	-0.7563768723	0.6644057314
H	-0.5829519514	2.2652305289	0.5829957502
H	-0.788489028	1.2872631966	2.0417085452
H	1.6542313756	1.7739381439	1.5297279872
H	1.2887374018	0.0541010873	1.5773876892
H	1.5570642489	1.7707176834	-0.9462295063
H	2.6562628497	0.4901104707	-0.4237693887
H	0.8589231197	-1.1861273602	-0.6846549476
H	2.1663116298	-0.6520082362	-2.7432420261
H	1.0138250788	0.6390800296	-3.1404899454
H	0.4819875042	-1.052036009	-3.1364580537

calc_1d conf_3

C	-7.7089809947	-0.5688712357	1.3053582625
C	-7.2318512235	0.6436330171	0.8226026828
C	-5.8558275598	0.9060908044	0.7421672526
C	-4.9602131496	-0.0662248913	1.1389332563
C	-5.4176715325	-1.3112897919	1.6115830098
C	-6.8084850436	-1.5520913569	1.7181444401
O	-7.2951129679	-2.6934506952	2.2012284337
O	-8.0617124631	1.6289977992	0.4132565825
C	-3.4742716932	0.1476879155	1.1234305621
C	-2.7645630537	-1.163357819	0.8435467285
O	-3.1719610956	-2.1639283933	1.8052778201
C	-4.4805297704	-2.3437709394	2.0387771774
O	-4.8270601331	-3.3709377197	2.614166636
C	-1.2457258799	-1.1135381809	0.9280543147
C	-0.5546265584	-0.5726589582	-0.3142475884
C	0.9650315135	-0.6910417621	-0.2240851549
C	1.624939111	-0.05543794	-1.4453480704
C	1.1024999345	1.3645642046	-1.6487148119
C	-0.4233203566	1.377700012	-1.6698467477
O	-0.9410590163	0.7827296035	-0.4847455053
C	-1.0075957812	2.7731036873	-1.7549004182
H	-8.7724090903	-0.7712313411	1.3860951054

H	-5.5230230704	1.8690699648	0.3726100803
H	-6.5124028726	-3.2279636938	2.4945659633
H	-8.9765587403	1.3351195373	0.5145667905
H	-3.1734322917	0.8839861899	0.3766582292
H	-3.1438344205	0.5263322722	2.1002544518
H	-3.0657481009	-1.5334070711	-0.1461393517
H	-0.9401993284	-0.5257707635	1.8010711066
H	-0.8958960913	-2.1382039331	1.0911604583
H	-0.8972540265	-1.1489166817	-1.1937060524
H	1.2992202513	-0.1821854191	0.688790498
H	1.2479127807	-1.7455987558	-0.1327017206
H	2.7145512125	-0.0555189235	-1.3377493123
H	1.397888411	-0.6575418895	-2.3355342571
H	1.4419012852	2.0098890464	-0.8285173048
H	1.4877155563	1.7923854052	-2.5811551786
H	-0.7666136778	0.7833554455	-2.5351590174
H	-2.0999253026	2.7341022586	-1.7727153504
H	-0.6651224625	3.2782836978	-2.6623588745
H	-0.6986723074	3.3669072942	-0.889675126

calc_ld conf_4

C	-6.9328357728	0.1651356259	2.1516654372
C	-6.6636609256	0.9060147722	1.0074830418
C	-5.6875976527	0.4966399173	0.0862309955
C	-4.9764758548	-0.6610530978	0.3284701125
C	-5.2150593986	-1.4182431776	1.4909499735
C	-6.2194953561	-1.0087505534	2.4001214765
O	-6.5117583432	-1.7066837817	3.4958077659
O	-7.3262878075	2.0490445413	0.7210742753
C	-3.9603308344	-1.2008862717	-0.6359079798
C	-2.8545587998	-1.9391111595	0.1021136741
O	-3.4135681262	-2.9419953796	0.9822477412
C	-4.4559135361	-2.6325339339	1.7666042591
O	-4.7300167682	-3.4007039488	2.6841907526
C	-1.9027102853	-1.050554336	0.9041319708
C	-0.7973795758	-0.3990835742	0.084948902
C	0.2100544589	0.3362788026	0.9659066599
C	1.2514939355	1.0501800579	0.1076892913
C	0.563218677	1.9193726324	-0.9424713683
C	-0.4592859739	1.1036166386	-1.7283624661
O	-1.3930438938	0.493370436	-0.8444544964
C	-1.2602084668	1.9356993066	-2.7094238392
H	-7.6964747155	0.4688883251	2.8609154735
H	-5.5122981992	1.0963681905	-0.7991762269
H	-5.9439519388	-2.520160947	3.4666240807
H	-7.9675282783	2.2269127637	1.4216312051
H	-4.4551259647	-1.8991864105	-1.3233864224
H	-3.5126291748	-0.4027863276	-1.2301531899
H	-2.2720231821	-2.531520141	-0.608453705
H	-2.4633882689	-0.2741538087	1.4364371343
H	-1.4263926605	-1.6845614102	1.6592823704
H	-0.2589072514	-1.1840207245	-0.4785101352
H	-0.3335807518	1.0660305391	1.5788772758
H	0.6887313949	-0.3733226432	1.6498595599
H	1.9183392481	1.6530273288	0.7327409359
H	1.8817599353	0.3036477154	-0.3944149988
H	0.0403604249	2.7520776337	-0.4551961266
H	1.2963973776	2.3531720892	-1.6318001514

H	0.0746051696	0.3055713817	-2.2743481989
H	-1.8164651403	2.7143426362	-2.1793796205
H	-1.9749962521	1.3114316592	-3.2520960415
H	-0.599011472	2.4154886334	-3.4364693977

calc_1d conf_5

C	-7.8935127021	-1.4309898852	1.603007208
C	-8.0165800565	-0.0535878202	1.4687541501
C	-6.888056073	0.7687861597	1.3260324942
C	-5.6340857771	0.193899135	1.3067662078
C	-5.4825478488	-1.2015102048	1.4207823191
C	-6.62693863	-2.0171760074	1.5940990244
O	-6.5398925322	-3.3361359906	1.7493634611
O	-9.2177043861	0.5641202374	1.4733426089
C	-4.3755028438	1.0066147909	1.1954880526
C	-3.3032319851	0.215449977	0.465172534
O	-3.0978866304	-1.0554713265	1.1162746548
C	-4.163053762	-1.8196715998	1.4064139712
O	-3.9682885233	-3.0035822369	1.6611170006
C	-1.9672553604	0.9308230451	0.4100796456
C	-0.8965932452	0.2732412411	-0.4585754673
C	-0.1503399622	-0.8804691444	0.2062832056
C	0.9833094719	-1.3688345547	-0.6930395694
C	1.8674082068	-0.1984377131	-1.1159281017
C	1.0186715264	0.9211471924	-1.7103058194
O	0.0029518021	1.3184004917	-0.799732143
C	1.8162469838	2.1655224598	-2.0456322502
H	-8.7610520123	-2.0709571647	1.7295258106
H	-7.0256014645	1.8400683323	1.2356846494
H	-5.5725483043	-3.552877914	1.7750068045
H	-9.9151883454	-0.0967605975	1.5758932798
H	-4.5634702006	1.9457017792	0.6672647323
H	-4.0088103108	1.2664686432	2.1975733318
H	-3.6514503336	-0.0000896339	-0.5543556835
H	-2.146054665	1.9266838907	-0.0100582193
H	-1.5879346487	1.0751095589	1.4280674723
H	-1.3687391311	-0.0984726096	-1.3874866321
H	0.2606901435	-0.5162442968	1.1566763035
H	-0.8463890211	-1.688644153	0.4430464514
H	1.5731709572	-2.1364314747	-0.1813271684
H	0.5588929284	-1.8459012292	-1.5871614906
H	2.4038059099	0.1988706318	-0.2446971331
H	2.6206125319	-0.5175321812	-1.8455508333
H	0.5336770399	0.5399220124	-2.6273657974
H	2.2912657762	2.5643647667	-1.1444954393
H	1.1637611732	2.9387243953	-2.4591805719
H	2.5962443046	1.9378589976	-2.7778230534

calc_1d conf_6

C	-7.3935786474	-0.3422831099	1.979666225
C	-7.3291068686	0.4461239843	0.83721131
C	-6.1741489363	0.4839110282	0.0415487618
C	-5.0862437201	-0.2892030512	0.3936236134
C	-5.133904723	-1.113499875	1.5350476712
C	-6.2934086821	-1.117721236	2.3479478509
O	-6.3752904319	-1.8420836544	3.4621023045
O	-8.3652886836	1.2165884308	0.4382913859

C	-3.7991851017	-0.2708508037	-0.3800134615
C	-3.1384577866	-1.6357016555	-0.298382001
O	-2.9518332025	-2.0278550469	1.0801201872
C	-3.9905482248	-1.9300688752	1.9241951406
O	-3.9207178464	-2.5275470897	2.9938895262
C	-1.796972666	-1.791475189	-1.001310729
C	-0.6637195456	-0.8141400758	-0.6980314902
C	-0.2355644745	-0.699262893	0.7624240946
C	0.912158901	0.3021977414	0.8823173068
C	0.5266986249	1.6269017311	0.2262074265
C	0.031498739	1.4000137517	-1.1997246346
O	-1.0324958329	0.456159582	-1.2178718736
C	-0.4843544447	2.6602795143	-1.8643282535
H	-8.2778772926	-0.3630136103	2.6088683812
H	-6.1584128189	1.1220299837	-0.8343934754
H	-5.4872095898	-2.2667702902	3.5849706375
H	-9.098704504	1.1067519495	1.0576832134
H	-3.97085376	-0.0116924637	-1.4282506672
H	-3.1211721765	0.4912505476	0.0165367928
H	-3.8230705511	-2.3747499195	-0.7366037091
H	-1.4389481795	-2.8056978897	-0.7932204312
H	-1.9895604423	-1.7383006704	-2.0787732366
H	0.2101386959	-1.1739235721	-1.2720565681
H	-1.0837613882	-0.3687118368	1.3691144184
H	0.0574755517	-1.6838655579	1.1414012541
H	1.1808935915	0.4558166579	1.9325098918
H	1.8045836569	-0.1031113281	0.3857045047
H	-0.2760815778	2.1073379289	0.8004796276
H	1.3759724284	2.3196772742	0.2141900489
H	0.8651232265	0.9878733638	-1.7962827952
H	0.3077239484	3.4114273742	-1.9314493194
H	-1.3135547522	3.0829459118	-1.2891684538
H	-0.8432405126	2.4412429386	-2.8731904759

calc_1d conf_7

C	-7.8797032857	-1.1376980819	1.2951402811
C	-7.6489825732	-0.0125146718	0.5136229965
C	-6.3548057767	0.5026932006	0.3422639827
C	-5.2919298512	-0.1303423889	0.9536565493
C	-5.4953980865	-1.2841653879	1.7334934794
C	-6.8093734428	-1.7762809567	1.9236549642
O	-7.0652755735	-2.8363900837	2.6861711377
O	-8.6496091494	0.6438962319	-0.1135198264
C	-3.882892134	0.3815681887	0.8532823268
C	-2.899057611	-0.7740461171	0.9163840691
O	-3.1306043279	-1.5648853787	2.1015056876
C	-4.3803880814	-1.957799285	2.3890103726
O	-4.5271851564	-2.8608104031	3.2060020828
C	-1.4381387958	-0.3655154577	0.9948840663
C	-0.9003311422	0.386945149	-0.2168821543
C	-0.9445267235	-0.4079969401	-1.520796511
C	-0.2393342159	0.3594968019	-2.638578238
C	1.1558464215	0.7889033015	-2.1907985973
C	1.0839876903	1.5254868849	-0.8564756777
O	0.4348504101	0.7211085952	0.1182845234
C	2.4448991749	1.8821607168	-0.2937173681
H	-8.8799882444	-1.5317823527	1.4450825828
H	-6.2176168688	1.3902928703	-0.2645323538

H	-6.1994553924	-3.1076150454	3.0879057844
H	-9.4875692332	0.2021415849	0.0771500347
H	-3.7437787066	0.9412764327	-0.0760625504
H	-3.6751823723	1.0737477167	1.6805176306
H	-3.0688517292	-1.4357673305	0.0576702807
H	-1.2919087814	0.2584675873	1.8828223076
H	-0.8345490688	-1.2673406849	1.1396440601
H	-1.4679220596	1.3244228678	-0.3606789195
H	-0.4473018277	-1.3722187592	-1.3553046693
H	-1.9818534894	-0.6205592599	-1.8045687242
H	-0.1862838894	-0.2491759117	-3.5471996779
H	-0.8285705094	1.2511872486	-2.8925837621
H	1.7967642383	-0.092785177	-2.0645629224
H	1.6266881099	1.4302388406	-2.944451378
H	0.4930285478	2.4485203584	-0.9976460826
H	3.0388529777	0.9770498713	-0.1368498507
H	2.3392907542	2.3923101741	0.6668902544
H	2.9861597748	2.5387750508	-0.9808301912

calc_ld conf_8

C	-6.9813488606	-0.1744873646	2.4480072324
C	-7.4584101115	0.1947107702	1.1967899422
C	-6.7865647034	-0.1769884144	0.0212591967
C	-5.6245070906	-0.9138120731	0.1155332321
C	-5.1088465035	-1.2850432223	1.3721438836
C	-5.8087741402	-0.9256280463	2.548848333
O	-5.3869308493	-1.2783946105	3.7606778694
O	-8.5874717094	0.9199619063	1.0433991318
C	-4.8749725004	-1.4044813786	-1.0896336519
C	-3.3793261138	-1.474039102	-0.807606156
O	-3.1364408114	-2.2605233404	0.3795782927
C	-3.8677337644	-2.0407400088	1.4833681084
O	-3.4525551193	-2.4997290512	2.5433704335
C	-2.7114900362	-0.1080672984	-0.7136994892
C	-1.1911376158	-0.131889036	-0.5656622275
C	-0.6879541644	-0.3626171472	0.8567374232
C	0.8323250258	-0.2248185675	0.91368975
C	1.2705009978	1.0974063425	0.2894596015
C	0.6647445299	1.255745402	-1.1019278036
O	-0.7491132738	1.1275830638	-1.0516264077
C	0.9585532111	2.601719953	-1.7336990187
H	-7.5033804089	0.0979248393	3.3598542062
H	-7.1973179157	0.1205492757	-0.9365534265
H	-4.5785741412	-1.8370219047	3.6243608492
H	-8.9583746379	1.1188764626	1.913245137
H	-5.2308448397	-2.4100255377	-1.347861357
H	-5.0604045469	-0.7661224683	-1.9579143148
H	-2.8896998751	-2.0554615582	-1.593473288
H	-2.9275863749	0.4237710571	-1.6470644627
H	-3.1576154761	0.4816179606	0.0947530174
H	-0.7787222767	-0.9236711695	-1.2193551803
H	-1.1518432871	0.3896888553	1.507983308
H	-1.0052033934	-1.3454587264	1.2144190266
H	1.1839116791	-0.3020295457	1.947782391
H	1.2933708284	-1.0571181211	0.3643271324
H	0.931519021	1.9354981653	0.9118831718
H	2.3630468138	1.1593582173	0.2257531072
H	1.0641272812	0.4536500208	-1.7490639667

H	2.0369251934	2.7508670631	-1.8395949309
H	0.5555299221	3.4066662388	-1.1120926399
H	0.4975900381	2.6695720991	-2.7223954559

calc_1d conf_9

C	-7.5031310275	-0.2865922142	1.3610731373
C	-6.9015284313	0.9291606125	1.0600523491
C	-5.5055122021	1.0590913652	1.0129343019
C	-4.7167484419	-0.0469120168	1.2582419698
C	-5.301044539	-1.2942982874	1.5444355248
C	-6.7105741984	-1.405958079	1.619509792
O	-7.314521317	-2.5507986155	1.9303149698
O	-7.6232550119	2.0430674892	0.8038950087
C	-3.2153717054	0.0251517732	1.2656542654
C	-2.6243431683	-1.2989375952	0.8211438172
O	-3.1552834382	-2.3842917387	1.6180333202
C	-4.4775763945	-2.4675034574	1.8130638663
O	-4.934969803	-3.5285973368	2.2271417902
C	-1.1137870178	-1.4483604429	0.9499550156
C	-0.2734384724	-0.484204639	0.104751589
C	0.1059098591	0.8233147548	0.7999978304
C	0.894207977	1.7159764837	-0.1572477093
C	0.14109522	1.8779803407	-1.4763100076
C	-0.2369113231	0.5159988786	-2.0515448684
O	-0.9807083524	-0.2351584266	-1.0996671491
C	-1.0880651469	0.6060776062	-3.3016565388
H	-8.5823552669	-0.390454939	1.4149461126
H	-5.0738946736	2.0269236125	0.7854154108
H	-6.5920907105	-3.1998792186	2.1351628694
H	-8.5641164241	1.8305151975	0.8604887869
H	-2.8686013969	0.8086621043	0.5888097379
H	-2.8599634823	0.2710087367	2.2756025232
H	-2.916127628	-1.4840109019	-0.2171297531
H	-0.8333599759	-1.3488735605	2.0046151043
H	-0.8850620731	-2.4786744435	0.6620799531
H	0.670841418	-0.9975721276	-0.1479126104
H	-0.7969597737	1.3446532681	1.1359401789
H	0.6978941023	0.5971210204	1.6942719801
H	1.0920593635	2.6915375096	0.2988514612
H	1.8730891983	1.2579225945	-0.3540666144
H	-0.7798021896	2.4535164331	-1.3158689382
H	0.7458542235	2.4306958811	-2.2040654997
H	0.6910472714	-0.0381581467	-2.2778677653
H	-0.5523488697	1.1347331816	-4.0950549781
H	-2.0163740016	1.1452823569	-3.0909715452
H	-1.346172176	-0.393155013	-3.6610186889

calc_1d conf_10

C	-7.619897697	-0.5435134271	1.1217729405
C	-7.1991975618	0.7798600531	1.1656773096
C	-5.8522585834	1.1102146986	1.3810079039
C	-4.9281944046	0.0971116698	1.5370063455
C	-5.324676244	-1.2515057757	1.4748943417
C	-6.6907912575	-1.5716410085	1.2907467974
O	-7.1266630226	-2.8291357778	1.2721055432
O	-8.0583714491	1.8117070603	1.0105488905
C	-3.4739518498	0.3590020465	1.8100348369

C	-2.6224410062	-0.7301916792	1.1800757972
O	-3.0516582898	-2.0185878564	1.6831613858
C	-4.3549236262	-2.3276775431	1.6474497901
O	-4.6752163289	-3.5048917345	1.7790757483
C	-1.1292482542	-0.6510800186	1.4812669982
C	-0.2907980716	0.0904768852	0.4436364798
C	-0.5816804758	1.580146419	0.2738568701
C	0.3223154877	2.1619777703	-0.8122019101
C	0.1897363517	1.3433707415	-2.0950101119
C	0.4073492936	-0.1414725043	-1.8152021932
O	-0.4661019776	-0.5900105247	-0.7867099992
C	0.1539968696	-1.0224061208	-3.021441648
H	-8.6629847793	-0.8048169399	0.9731443437
H	-5.5663402606	2.1549326557	1.4220323984
H	-6.3393774616	-3.3997978685	1.4707732614
H	-8.948520633	1.4639112392	0.8680805995
H	-3.1793648406	1.3413605899	1.4338932719
H	-3.2945669457	0.3631496184	2.8940139074
H	-2.7716133051	-0.7455962452	0.0948640517
H	-0.9607009881	-0.2117054853	2.471300362
H	-0.7602514101	-1.6798306691	1.5170617343
H	0.7646794282	-0.0086503401	0.7545160603
H	-1.6284871171	1.713875019	-0.0241544413
H	-0.4390197057	2.101948775	1.2273347243
H	0.0781769744	3.2133134663	-0.9968238952
H	1.3650901314	2.1367989809	-0.4678267356
H	-0.8152986032	1.4727291001	-2.5167963335
H	0.9058228079	1.6843656825	-2.8511671357
H	1.4471748927	-0.2834958648	-1.4706259234
H	0.8321735414	-0.7613591967	-3.8388287023
H	-0.8752159392	-0.9003533501	-3.3714441051
H	0.3052963107	-2.0735325413	-2.764099559

calc_1d conf_11

C	-7.5241640742	-0.4241226331	1.836660622
C	-7.5563984077	0.0257246895	0.5226419574
C	-6.4088905167	0.0010886399	-0.2845281911
C	-5.2306340155	-0.4944232372	0.2362872699
C	-5.1757776224	-0.9764572695	1.5572892605
C	-6.3320340585	-0.9158037053	2.3716097728
O	-6.3251823937	-1.3153540419	3.6411568978
O	-8.6840868019	0.5127967267	-0.0419145576
C	-3.945368749	-0.5141726405	-0.5406044926
C	-3.1100378507	-1.7104395148	-0.1197991056
O	-2.8903627418	-1.6973321668	1.3050928564
C	-3.9349395456	-1.5037130092	2.1180163287
O	-3.8013301112	-1.775060831	3.3079135353
C	-1.7434207772	-1.829724036	-0.7866038664
C	-0.9647297983	-0.5396507035	-1.0111901007
C	0.4232593348	-0.8098446311	-1.5898966141
C	1.214166013	0.490997176	-1.711187942
C	1.1999699806	1.2401194856	-0.3803107233
C	-0.2295022651	1.4080487894	0.126216563
O	-0.874958991	0.1443538513	0.222746621
C	-0.3091720142	2.045046536	1.4986251717
H	-8.4041460851	-0.3920335652	2.4714845458
H	-6.4711449063	0.3741049433	-1.3003259405
H	-5.3871878692	-1.568755753	3.8470712771

H	-9.4014528146	0.4791435942	0.6044804931
H	-4.1382080977	-0.5536487877	-1.6171721997
H	-3.3779966991	0.4007760661	-0.3352156271
H	-3.6764038955	-2.6266287472	-0.3342319108
H	-1.1445285046	-2.5154523934	-0.1781562162
H	-1.8825669485	-2.3079327648	-1.7631505162
H	-1.5153998678	0.0971358095	-1.7289215131
H	0.9474202065	-1.5023320741	-0.9193877044
H	0.3313162451	-1.3041314533	-2.5639807672
H	2.2413251601	0.2883670637	-2.0320790934
H	0.7613335064	1.1216957888	-2.4883762473
H	1.7681700192	0.6785508448	0.3718895465
H	1.6741354963	2.222971677	-0.4809898715
H	-0.7855179243	2.0285903772	-0.6002147647
H	0.2209266515	1.4303967064	2.2315149249
H	-1.3498181688	2.1339837134	1.8200168686
H	0.1403399026	3.0421214797	1.4875234532

calc_ld conf_12

C	-7.1946979261	0.0472167203	1.5974549378
C	-6.9963524361	0.2802058763	0.2426717328
C	-5.923471008	-0.3053323488	-0.4481107606
C	-5.0451599686	-1.1170410554	0.2391960617
C	-5.2101612508	-1.3517472732	1.6170852948
C	-6.3115901329	-0.7788036768	2.2961058855
O	-6.539423697	-0.997543306	3.5887386346
O	-7.8214679678	1.0698294512	-0.479395122
C	-3.9082013715	-1.8343487035	-0.42859218
C	-2.725447107	-1.9684838038	0.5213609202
O	-3.1473089839	-2.6010442234	1.7498557626
C	-4.2698320698	-2.1864663575	2.3574289624
O	-4.4598489289	-2.5424611899	3.5158285083
C	-2.0135493137	-0.6645490411	0.8678493888
C	-1.3133890047	0.0326367483	-0.293924537
C	-0.2109813192	-0.7941695025	-0.9533691468
C	0.5389900213	0.0430110349	-1.9887557767
C	1.0026477002	1.3606486576	-1.3726981234
C	-0.166199167	2.0744607218	-0.6997654821
O	-0.7798941503	1.223277961	0.2580353719
C	0.2433157841	3.3348706985	0.0349848707
H	-8.030526264	0.484682583	2.1344107266
H	-5.8118233666	-0.1119905758	-1.5087105405
H	-5.8441149192	-1.6379541867	3.8904312957
H	-8.5161755266	1.4143666678	0.0971199825
H	-4.2378362694	-2.8401494677	-0.7190569257
H	-3.6029240514	-1.3251054681	-1.3467976691
H	-2.0091620136	-2.6830202225	0.1104155524
H	-2.7265685437	0.0419736124	1.3047687337
H	-1.2670079401	-0.8822299552	1.6386098571
H	-2.054312574	0.3078551737	-1.0665930844
H	0.4816598126	-1.1331344244	-0.1723777788
H	-0.6329114206	-1.6887814112	-1.4262280984
H	1.3883676755	-0.5179853323	-2.3923206713
H	-0.1279439122	0.2538358766	-2.8359918788
H	1.7728484551	1.1693828069	-0.6147777763
H	1.4476048727	2.0117679959	-2.1336407931
H	-0.9137648215	2.3280331628	-1.4728652679
H	-0.6241926101	3.7967898146	0.5126508945

H	0.6883235336	4.056734218	-0.6557579874
H	0.976482181	3.0987617441	0.8117262255

calc_1d conf_13

C	-6.7474625594	0.2386425027	1.9354200056
C	-7.343511065	-0.2086617281	0.7634025104
C	-6.6466223182	-1.0216501281	-0.1438443905
C	-5.3404200142	-1.3719980648	0.1320207675
C	-4.7062356773	-0.9146701217	1.3023160099
C	-5.4283866739	-0.1190237011	2.2223106464
O	-4.8918374931	0.3060067482	3.3638660538
O	-8.6173788679	0.1067435855	0.4385117744
C	-4.5412134818	-2.2810034831	-0.7592550667
C	-3.0646379266	-1.9106149968	-0.7038135044
O	-2.6082394177	-1.91036136	0.6628874285
C	-3.3223781218	-1.2716883903	1.5995816592
O	-2.7911490213	-1.0520691213	2.6828068331
C	-2.7709342418	-0.5895581911	-1.4179085058
C	-1.4056168015	0.0447653202	-1.1634324595
C	-0.220146769	-0.9165799899	-1.219770626
C	1.069157665	-0.1790097521	-0.8630487002
C	0.9000426434	0.5402409173	0.4733790441
C	-0.3356298431	1.4352245762	0.4468971836
O	-1.4909519085	0.6885647374	0.0939814585
C	-0.6345799821	2.0817991253	1.7844742087
H	-7.284989979	0.8553317975	2.6489193084
H	-7.1508997975	-1.3611565057	-1.0412446853
H	-3.9851267582	-0.0948534262	3.4104544575
H	-8.9917246829	0.6664981657	1.1314170751
H	-4.6620858598	-3.3184934727	-0.4227903113
H	-4.900000726	-2.234311149	-1.7918151091
H	-2.4698464626	-2.7063271201	-1.1579803351
H	-2.8796739962	-0.7833344689	-2.4919030279
H	-3.5257835291	0.1572347447	-1.1511846832
H	-1.2531961651	0.817757409	-1.9391934114
H	-0.3833712815	-1.7251430485	-0.4999542008
H	-0.1525197892	-1.3623496097	-2.2197993309
H	1.9126393968	-0.8763597685	-0.8251222053
H	1.3016188536	0.5551262267	-1.6469553736
H	0.7776609446	-0.193860404	1.27918884
H	1.7848492522	1.143260304	0.7072760648
H	-0.1814695898	2.2185555932	-0.3181087682
H	0.2121124669	2.688466199	2.1185346248
H	-0.8359275488	1.3101450405	2.5324933211
H	-1.5161328725	2.7237150086	1.70998542

calc_1d conf_14

C	-6.17695401	0.8831143423	0.9265396282
C	-6.4212820798	0.3134830065	-0.3173614868
C	-5.773691895	-0.8641825244	-0.7165433163
C	-4.8663114098	-1.4571935785	0.1411027723
C	-4.5838912249	-0.8900452939	1.3938938521
C	-5.2687232073	0.2799394088	1.7986170904
O	-5.0729471566	0.835758136	2.9936319402
O	-7.2941534741	0.8553424849	-1.1968789767
C	-4.1999813642	-2.7642492959	-0.1769579337
C	-2.8337776511	-2.905853387	0.4886978002

O	-2.8792582239	-2.5335194557	1.878739779
C	-3.6080950067	-1.4938422694	2.2969600611
O	-3.4489156335	-1.1112504726	3.4521979518
C	-1.6670219043	-2.2325491108	-0.2353800271
C	-1.7354112853	-0.7379182386	-0.5210039558
C	-0.6546584941	-0.3033012571	-1.5109853142
C	-0.6613740878	1.2152469417	-1.673221972
C	-0.5885515589	1.8907408189	-0.3064406428
C	-1.6689581425	1.3476456288	0.624351077
O	-1.5741289584	-0.070334683	0.7169361537
C	-1.5608375923	1.8886723507	2.0353438568
H	-6.6882054637	1.7842802138	1.2506360132
H	-6.00563083	-1.2913744588	-1.6854410756
H	-4.447803979	0.2315499925	3.4770026728
H	-7.6799798468	1.6518218954	-0.8093086358
H	-4.8467267322	-3.576149696	0.1793846641
H	-4.0950747677	-2.9007340757	-1.25770659
H	-2.5891667936	-3.9705696845	0.5341421993
H	-0.7575606158	-2.4218753426	0.345232848
H	-1.5508913353	-2.7610487152	-1.1900801937
H	-2.7197662159	-0.4760848929	-0.9457166936
H	0.3201503563	-0.6349017781	-1.1306403847
H	-0.8153104577	-0.7982874863	-2.4759739403
H	0.1678504499	1.538289659	-2.31158256
H	-1.5864716583	1.520353719	-2.1809169544
H	0.3900110829	1.7005338062	0.1526751096
H	-0.6975737413	2.977010412	-0.402121316
H	-2.6583773613	1.6023001403	0.2063578998
H	-1.644804564	2.9793356413	2.0334524081
H	-0.5962321586	1.6135176047	2.4715964873
H	-2.3515110073	1.4803294942	2.6667697043

calc_1d conf_15

C	-7.7370913546	-0.7446304562	2.0321583009
C	-7.8209819714	0.0492768964	0.8951641857
C	-6.6916160653	0.3106643998	0.1034515995
C	-5.4799881713	-0.2467104538	0.4562686333
C	-5.3718052815	-1.0733038537	1.5909211403
C	-6.5108985316	-1.3013586166	2.3999095561
O	-6.4567899303	-2.0354219889	3.5085487339
O	-8.9821738112	0.6132934322	0.4969486477
C	-4.2123578966	0.0147828591	-0.3070497792
C	-3.324094575	-1.2159682457	-0.25035471
O	-3.0596243566	-1.5666063672	1.125143642
C	-4.0944339293	-1.6648136395	1.9743154776
O	-3.9134220015	-2.2411842353	3.0415263213
C	-1.9737195209	-1.12650084	-0.9429749741
C	-1.0201092298	-0.0342206168	-0.4564594364
C	-1.1164242617	1.2835300271	-1.2253163356
C	-0.0423794274	2.2605004242	-0.7487911799
C	1.3327652212	1.59825116	-0.7971583448
C	1.3051607164	0.2577796839	-0.0682199209
O	0.2850050243	-0.5745063737	-0.6012027516
C	2.6042653386	-0.5141048289	-0.180860676
H	-8.6029362469	-0.9364210419	2.6581306607
H	-6.7950536048	0.9469040242	-0.767903001
H	-5.5049021135	-2.285747491	3.6323731851
H	-9.684114749	0.3642745779	1.1125645263

H	-4.4249942583	0.2745670157	-1.3482641527
H	-3.689985433	0.8680101245	0.1427281216
H	-3.8754349955	-2.0565881458	-0.6917501011
H	-1.4659500913	-2.0821376288	-0.783677231
H	-2.1439739721	-1.0318732291	-2.0219976371
H	-1.2036743313	0.1547329878	0.6150414313
H	-0.973058891	1.0651084989	-2.2914879412
H	-2.112154023	1.7265694759	-1.1180428966
H	-0.0559375636	3.1724854498	-1.355045306
H	-0.2628748903	2.5663095914	0.2829376041
H	1.6241690734	1.4189208668	-1.83989237
H	2.0949165135	2.2479773901	-0.3521078557
H	1.0819449054	0.443268208	0.997604426
H	3.4310782184	0.0558324403	0.2526786898
H	2.8350339022	-0.7175848298	-1.2307696297
H	2.5256165663	-1.4693566514	0.3439113472

calc_ld conf_16

C	-7.5042482974	-0.2791492712	1.366160629
C	-6.8996834687	0.9348030906	1.0693033896
C	-5.5021376311	1.0598589732	1.0202108312
C	-4.7119068927	-0.0489702035	1.2599131847
C	-5.3001857456	-1.2922854104	1.5422450981
C	-6.7133034191	-1.3983973815	1.6187305084
O	-7.3168881105	-2.5442480029	1.9264199061
O	-7.7146079498	1.988131319	0.8348275325
C	-3.2104905812	0.0220889328	1.2639109254
C	-2.62359767	-1.3022022153	0.8144027328
O	-3.1549879539	-2.3866645465	1.6100475505
C	-4.4780963137	-2.4679569815	1.8073967194
O	-4.9351543378	-3.5284954324	2.2208181007
C	-1.1130585387	-1.4554865465	0.939131527
C	-0.271431217	-0.4900671408	0.0968073481
C	0.1157625474	0.8118551514	0.7981574214
C	0.9067356708	1.7054831534	-0.1560320072
C	0.1527934661	1.8776558712	-1.473379065
C	-0.2344163843	0.5205382238	-2.0541379902
O	-0.9810506297	-0.2300565712	-1.1041171646
C	-1.0867973583	0.6210806245	-3.3025867961
H	-8.5828183851	-0.3577407035	1.4151439994
H	-5.0461519214	2.021130241	0.7966645995
H	-6.5977254533	-3.1955369267	2.1294543942
H	-7.1772215917	2.7689938023	0.6498800615
H	-2.8626708292	0.8061379146	0.5878454784
H	-2.8517170167	0.2644256501	2.2735549425
H	-2.9185153817	-1.4831284454	-0.2237806429
H	-0.8303611062	-1.3616481495	1.9936932623
H	-0.8878156292	-2.4851847897	0.6464713075
H	0.6697349453	-1.0059543003	-0.1619250825
H	-0.78417795	1.3355720441	1.138588625
H	0.7082571293	0.5783542948	1.6901661956
H	1.1104459949	2.6778153107	0.3044174959
H	1.8829679526	1.2435356734	-0.3565460273
H	-0.76459312	2.4579018388	-1.3091150779
H	0.7597172953	2.4301722285	-2.1994649288
H	0.6897593095	-0.0380781138	-2.2845268721
H	-0.5490379008	1.1495632857	-4.0946963392
H	-2.0115430141	1.1651467929	-3.0884843659

H -1.351782512 -0.3749932843 -3.6655714071

calc_1d conf_17

C -7.0042349774 0.0348018857 1.9373761032
C -6.6490201414 0.8311172286 0.8560793439
C -5.5551001835 0.5051236607 0.0390037366
C -4.8135856256 -0.6230129737 0.3263458609
C -5.1398680845 -1.4356276 1.4287017057
C -6.2626955677 -1.1125615591 2.227209364
O -6.6417697734 -1.8674194611 3.2556817619
O -7.3358457556 1.9491418372 0.5312848617
C -3.6654786707 -1.0846040999 -0.5217589812
C -2.6075824325 -1.7717030745 0.3251876415
O -3.2082521454 -2.8452030965 1.0885088049
C -4.351858301 -2.6228083707 1.7500242557
O -4.6955207423 -3.4409521381 2.598448173
C -1.8202214965 -0.8959666163 1.3025541704
C -0.9529221216 0.1966980546 0.6618494391
C -1.6182765718 1.5695226062 0.575736037
C -0.6951626097 2.5592719678 -0.1333068287
C -0.219333697 1.9833057996 -1.4655460016
C 0.3799334518 0.5940113802 -1.2671599194
O -0.5546697911 -0.2614654029 -0.6215067898
C 0.771914752 -0.0824941369 -2.5649491469
H -7.8587548065 0.2723250517 2.5633341215
H -5.3220259741 1.1404300959 -0.8077930549
H -6.0337132302 -2.6524230218 3.2626228574
H -8.0633266743 2.0665417903 1.1562872465
H -4.0353359846 -1.8087392683 -1.2594370443
H -3.2086296352 -0.2679366668 -1.082926918
H -1.9002562799 -2.28017716 -0.3284406489
H -2.504908139 -0.4333760022 2.0218749946
H -1.1841505126 -1.5823082114 1.8693457279
H -0.0467757611 0.3160513415 1.2811870059
H -2.5703427966 1.4919834295 0.0390118825
H -1.8544509203 1.9167278119 1.5880166783
H -1.2003630175 3.5189820384 -0.2833712131
H 0.1767750098 2.7603931513 0.5040698234
H -1.0639192897 1.8997669322 -2.1618772201
H 0.5219215534 2.641872868 -1.9322434773
H 1.2687959881 0.6852457142 -0.61813655
H 1.5280918273 0.5057169313 -3.0924509113
H -0.1003645412 -0.1891502444 -3.2167076165
H 1.1782836691 -1.0781024721 -2.3701292756

calc_1d conf_18

C -7.6470071758 -0.8324414368 2.2770009992
C -7.8074566252 0.1778480827 1.336913968
C -6.7528294742 0.5641752778 0.4955733897
C -5.5380540115 -0.0825341029 0.5966454462
C -5.3547211763 -1.124027 1.5268741947
C -6.4178454224 -1.483315118 2.391305673
O -6.2888200844 -2.4290159183 3.3188046403
O -8.9747648619 0.8408065335 1.1869455235
C -4.3505539574 0.302393752 -0.239819626
C -3.4774632315 -0.9167014245 -0.4936275619
O -3.115942336 -1.5582469041 0.7469299934

C	-4.0750938227	-1.8117298128	1.6514275407
O	-3.8196441365	-2.6034341655	2.5525794475
C	-2.1882967105	-0.6647863368	-1.27087124
C	-0.9541438436	-0.2316206751	-0.4801830247
C	-1.0668470565	1.0802274425	0.2910479027
C	0.2880300266	1.4604976278	0.8890473771
C	1.375182661	1.4375089001	-0.1814471674
C	1.3592476011	0.1039615027	-0.9236169015
O	0.0688135908	-0.1429064566	-1.4627043042
C	2.3359044683	0.049854978	-2.0809697979
H	-8.4533240859	-1.1256030436	2.9419431396
H	-6.9141644141	1.3651071656	-0.216651233
H	-5.3430964139	-2.7262164979	3.2873450211
H	-9.622277851	0.4904108812	1.81280318
H	-4.6725759833	0.714497825	-1.200969284
H	-3.7784277114	1.0870130458	0.2671006323
H	-4.0826478682	-1.6397921523	-1.0555185524
H	-1.9048743748	-1.5824638578	-1.7944832481
H	-2.389291645	0.083550758	-2.0461450938
H	-0.6976121456	-1.0300698766	0.233496388
H	-1.4101450003	1.8690249399	-0.3911867775
H	-1.8070674617	0.9782190475	1.0907209233
H	0.2325635049	2.4446056041	1.3662139092
H	0.5432960797	0.7425882686	1.6798836931
H	1.2033302311	2.2405050895	-0.9097236185
H	2.3630982593	1.6050777427	0.2626375652
H	1.5984364158	-0.6996168731	-0.2045492308
H	2.104147764	0.8328187743	-2.8090769471
H	2.2752042788	-0.916954912	-2.586898916
H	3.3607340001	0.1957833254	-1.7277980232

calc_ld conf_19

C	-7.436762891	-0.3116068365	1.9399609314
C	-7.3411115681	0.3738947727	0.7356305326
C	-6.2360490948	0.2051189528	-0.1134096175
C	-5.2222530919	-0.6519930375	0.2645013654
C	-5.2847403854	-1.3411569796	1.488985046
C	-6.4166452435	-1.1848524175	2.3233388708
O	-6.5457746539	-1.8436056537	3.47241366
O	-8.3005661115	1.2291200027	0.3172338622
C	-4.030165441	-0.933522492	-0.6049760819
C	-2.7953400152	-1.2017557673	0.245879971
O	-3.0785226627	-2.2665657844	1.1847825414
C	-4.2080491648	-2.2350518107	1.9028491521
O	-4.2929998122	-2.9750607379	2.8784745716
C	-2.2509304629	0.0126105604	1.0058297303
C	-1.145488906	0.7817579097	0.2864517929
C	-1.5248644203	1.4391593297	-1.0390899542
C	-0.3068192161	2.1463708187	-1.6320850832
C	0.8671455595	1.1732424919	-1.7255562904
C	1.1158570613	0.4949745299	-0.3808670407
O	-0.0721685512	-0.1244617565	0.0951774792
C	2.1797499515	-0.5821603016	-0.4397851969
H	-8.2956491589	-0.1973382577	2.5938991836
H	-6.2054483278	0.7463722373	-1.0520633886
H	-5.7582353341	-2.444639006	3.537553541
H	-9.0060917623	1.2615752891	0.9766634189
H	-4.2331919698	-1.8185650791	-1.2217900033

H	-3.846302305	-0.102684564	-1.2895759658
H	-1.9929768149	-1.6184668148	-0.3642076441
H	-3.0609857196	0.7005721072	1.272412634
H	-1.817637	-0.3602169684	1.9383864094
H	-0.8130716003	1.5818829055	0.9716118366
H	-1.8650695916	0.6689033866	-1.7416669766
H	-2.353546237	2.140705151	-0.8880105521
H	-0.5427536732	2.564547166	-2.6162395579
H	-0.0303348778	2.9925287368	-0.98862043
H	0.6486797546	0.3968737479	-2.4701076139
H	1.7771001896	1.6894148916	-2.0518642364
H	1.4172601758	1.2676201467	0.3485533527
H	3.137040112	-0.1611081905	-0.7598791578
H	1.8895764328	-1.36370842	-1.1481431391
H	2.311136828	-1.0427242587	0.5423480474

calc_ld conf_20

C	-7.7172594296	-1.2931976791	1.2070203994
C	-7.8991523217	0.0784281939	1.3323290756
C	-6.8069465009	0.9592855887	1.3511358592
C	-5.5300142287	0.4501344411	1.2302781168
C	-5.3184166538	-0.9333986549	1.0821955598
C	-6.4270134258	-1.8140549625	1.0943426453
O	-6.2838690697	-3.1337872213	1.0005222887
O	-9.1263010346	0.6325698775	1.4466704238
C	-4.3056785629	1.3182169026	1.2805782136
C	-3.203293315	0.7190889723	0.4221282775
O	-2.9392879206	-0.6377668025	0.8227405104
C	-3.9717579013	-1.4823946766	0.9596397162
O	-3.7340719971	-2.6857490978	0.9892691166
C	-1.9065551906	1.5060490052	0.5115608294
C	-0.6991900299	0.978605119	-0.2658062126
C	-1.0083553485	0.4459247335	-1.6633562133
C	0.2706573972	-0.0762822228	-2.3158652319
C	0.9566519439	-1.0758144389	-1.3870947229
C	1.1552689732	-0.4710251788	0.0002755527
O	-0.0795498726	-0.0123686417	0.5293898425
C	1.7206816536	-1.4540452081	1.0053275459
H	-8.5565151866	-1.9817091935	1.2077159929
H	-6.9888715024	2.0219151264	1.4629056271
H	-5.3065773145	-3.3079222629	0.9906518775
H	-9.7933574296	-0.0660080852	1.4200124549
H	-4.5323577216	2.3323161287	0.9382121381
H	-3.9477792009	1.3982247753	2.3158189434
H	-3.5487484611	0.6846074844	-0.6193840672
H	-2.1322945723	2.5187964694	0.1566868862
H	-1.6064823605	1.5909428139	1.561436962
H	0.0062511709	1.8237018375	-0.3749990815
H	-1.729133956	-0.3745020919	-1.5769099079
H	-1.4661844173	1.2339885777	-2.2738069272
H	0.0481568236	-0.5359901342	-3.2845570689
H	0.9497655587	0.7642274011	-2.5146317993
H	0.3377699989	-1.975895872	-1.2856884561
H	1.9247696696	-1.3869225169	-1.7960381696
H	1.837735872	0.3942983309	-0.0926949593
H	2.6959046418	-1.8249616397	0.676835006
H	1.0425931168	-2.3042092844	1.1210050243
H	1.8388081062	-0.9763159137	1.9811479321

calc_1d conf_21

C	-6.5533573767	0.5366852297	1.2263597118
C	-6.662736375	0.1861500608	-0.1135179534
C	-5.8572401112	-0.8183621478	-0.670586424
C	-4.9303786831	-1.4602705115	0.1280124265
C	-4.7916358627	-1.1168569242	1.4835557379
C	-5.6270948238	-0.1172126982	2.0405880283
O	-5.560315886	0.2280962721	3.3234122286
O	-7.5462722158	0.7833053146	-0.9428808207
C	-4.0899323059	-2.594896395	-0.3814980167
C	-2.7679268305	-2.7529059994	0.3662157014
O	-2.947668173	-2.6473098679	1.7949401116
C	-3.8137386389	-1.7837332069	2.3366030663
O	-3.753144198	-1.5999623361	3.5486988792
C	-1.5792762285	-1.8961640313	-0.0692696651
C	-1.6707227179	-0.3717840826	-0.005881669
C	-2.2512102856	0.283821317	-1.2571264991
C	-2.1634994181	1.805466919	-1.1518342153
C	-0.7362727495	2.2323406523	-0.8172699941
C	-0.2214836233	1.4677887642	0.3990903907
O	-0.333013028	0.0671350405	0.1893777086
C	1.2342534653	1.7492039845	0.7124388119
H	-7.1818220302	1.3035540642	1.6681599687
H	-5.9832462133	-1.0746735099	-1.7163361166
H	-4.8867261442	-0.3723976636	3.7387677132
H	-8.0447371153	1.4488005415	-0.4505737539
H	-4.6648772686	-3.5222659356	-0.2635084006
H	-3.8897044473	-2.4870829449	-1.4516833791
H	-2.4428260689	-3.7890258524	0.2419095921
H	-0.7440160515	-2.1810266653	0.5777977304
H	-1.3032322369	-2.2019444422	-1.0863979495
H	-2.2682023787	-0.0639235796	0.8682925701
H	-1.6694686832	-0.0624452637	-2.1214530136
H	-3.2892890207	-0.0263766932	-1.4078874065
H	-2.5003299017	2.273830282	-2.0827711402
H	-2.8441977264	2.1523542465	-0.3628338585
H	-0.0738498021	2.0178016467	-1.6657654665
H	-0.6844418739	3.3105014153	-0.6270482319
H	-0.84200984	1.7399560965	1.2715025066
H	1.5560507787	1.1699123197	1.5813717017
H	1.3842537892	2.811528673	0.9253212371
H	1.8653383011	1.4723879116	-0.1372918485

Table S34. Sampled and DFT geometry optimized conformers related to calc_2a, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_2a conf_1	-916.6428199	47.75%	-916.8801926	15.17%	-916.8298210	48.81%
calc_2a conf_2	-916.6426963	41.89%	-916.8814972	60.41%	-916.8295482	36.56%
calc_2a conf_3	-916.6409860	6.85%	-916.8804583	20.10%	-916.8283295	10.06%
calc_2a conf_4	-916.6403030	3.32%	-916.8789241	3.96%	-916.8274255	3.86%
calc_2a conf_5	-916.6372323	0.13%	-916.8755818	0.11%	-916.8243186	0.14%
calc_2a conf_6	-916.6353451	0.02%	-916.8738058	0.02%	-916.8227599	0.03%
calc_2a conf_7	-916.6353118	0.02%	-916.8757050	0.13%	-916.8244998	0.17%
calc_2a conf_8	-916.6350563	0.01%	-916.8739557	0.02%	-916.8235548	0.06%
calc_2a conf_9	-916.6342671	0.01%	-916.8746861	0.04%	-916.8247115	0.22%
calc_2a conf_10	-916.6339973	0.00%	-916.8726469	0.01%	-916.8225701	0.02%
calc_2a conf_11	-916.6338765	0.00%	-916.8728533	0.01%	-916.8217229	0.01%
calc_2a conf_12	-916.6332930	0.00%	-916.8727808	0.01%	-916.8218994	0.01%
calc_2a conf_13	-916.6326067	0.00%	-916.8712038	0.00%	-916.8207010	0.00%
calc_2a conf_14	-916.6322320	0.00%	-916.8726368	0.01%	-916.8224439	0.02%
calc_2a conf_15	-916.6316901	0.00%	-916.8710877	0.00%	-916.8211578	0.01%
calc_2a conf_16	-916.6309166	0.00%	-916.8688316	0.00%	-916.8178010	0.00%
calc_2a conf_17	-916.6303572	0.00%	-916.8710994	0.00%	-916.8211567	0.01%

Table S35. Cartesian coordinates of the optimized geometries for the conformers related to calc_2a. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S34.

calc_2a conf_1

C	-9.0252381199	-1.7881653883	-0.8340015369
C	-8.9238618601	-0.291809802	-0.4272179486
C	-7.5642500875	-0.1647885362	0.2940965892
N	-6.9502011441	-1.5103604141	0.2626743554
C	-7.577111816	-2.2371786111	-0.8258827118
C	-5.5041333845	-1.6361879407	-0.0200156221
C	-5.3544704201	-1.7150888947	-1.5686017551
C	-6.7950979	-1.8294093483	-2.0807155869
O	-9.6564036524	-1.9205144199	-2.0943029598
O	-8.9593777057	0.5267787961	-1.5703677302
C	-4.5748083355	-0.6123064358	0.6263043268
C	-7.7016584877	0.2890026453	1.7497766721
O	-7.0579357614	-2.8039349737	-3.0875187481
O	-4.6298490006	0.6613932047	0.0360719763
N	-8.0795040973	1.6819110385	1.8762343934
O	-5.9544527089	2.4559794855	1.7372688796
C	-7.1620050594	2.6739830458	1.8232614211
C	-7.6955613695	4.0847687615	1.8903144489
H	-7.4670441167	-3.3218492086	-0.6930319835
H	-9.6025787066	-2.3401410309	-0.0849066504
H	-9.7532037384	-0.0212322161	0.2459875998
H	-6.9715623246	0.5770060492	-0.2506407566
H	-5.2138847062	-2.6078484041	0.4021486778
H	-4.7796482631	-2.5979653704	-1.8650389732
H	-4.8556840303	-0.8237148635	-1.9552472697
H	-7.1502971345	-0.848474263	-2.4180453022
H	-9.027190334	-2.3622921977	-2.691710041
H	-9.4623018481	0.0004101101	-2.2198532519
H	-3.5544457316	-1.001964572	0.5072334962
H	-4.7655185618	-0.5713852055	1.7064647669
H	-8.4422788662	-0.3278618861	2.2672290951
H	-6.7529038788	0.161087639	2.2717522379
H	-6.6548310904	-2.5043833515	-3.9122882833
H	-5.0533778978	1.2830478143	0.6574504372
H	-9.0558943554	1.9267095436	1.8425444651
H	-7.1360219625	4.6338656911	2.650022302
H	-7.5118561255	4.5751619188	0.9306786438
H	-8.7625554173	4.140751591	2.1178723266

calc_2a conf_2

C	-8.9091610546	-1.0652231709	-1.061132996
C	-8.606556514	0.2426218929	-0.3449356825
C	-7.0875593197	0.3437783976	-0.5200133663
N	-6.6903398594	-1.0021476989	-0.0808471435
C	-7.7016704791	-1.9324348669	-0.6731685038
C	-5.4047998589	-1.5653348708	-0.5325676356
C	-5.6466049015	-2.0034203345	-1.9729764484
C	-7.0039833171	-2.6938339507	-1.8435802948
O	-8.9408622414	-0.8374004415	-2.4556000059
O	-9.3297215892	1.300525271	-0.9035817301
C	-4.2412275081	-0.6658105846	-0.1808968141
C	-6.5051914474	1.5580495933	0.2026253616

O	-6.7465779483	-4.0496815888	-1.5038245095
O	-4.3356495958	-0.3039837295	1.1901396226
N	-6.767226238	1.6425877156	1.6248781093
O	-8.7512091386	2.7246633783	1.418590544
C	-7.8449415457	2.2843512583	2.1274342671
C	-7.8844781582	2.449717176	3.6280488772
H	-7.9863046708	-2.6721621678	0.0833869799
H	-9.8564070571	-1.5120415445	-0.7307156184
H	-8.8234880193	0.1234901105	0.724351821
H	-6.8994240569	0.5152637496	-1.5928618671
H	-5.2751741309	-2.4857052116	0.0553044407
H	-4.8959246283	-2.6953061861	-2.3610295361
H	-5.7165614356	-1.1430527891	-2.6458348116
H	-7.5912152977	-2.628069462	-2.7627589943
H	-9.388145585	0.018013406	-2.5615080579
H	-9.2937276892	2.0173679495	-0.238806938
H	-3.2954224482	-1.1931345214	-0.3451779593
H	-4.2270592803	0.2324866079	-0.8143751343
H	-5.427842499	1.6339035794	0.0664133491
H	-6.9616104359	2.4345346431	-0.2679041964
H	-7.5950814127	-4.5078459486	-1.4628967692
H	-5.2200517833	-0.6081532401	1.4549316763
H	-6.0261431536	1.3591255085	2.2458858632
H	-7.0674829698	1.9433161497	4.1466829421
H	-7.8474989733	3.516516402	3.8633936603
H	-8.8376737582	2.0684295189	3.9999274985

calc_2a conf_3

C	-8.9959640431	-1.6193951558	-0.910622647
C	-8.8767397137	-0.359612495	-0.0104255835
C	-7.3902711901	-0.2768134808	0.408072903
N	-6.912388065	-1.6611619917	0.2694991253
C	-7.5727670741	-2.167445106	-0.9383703575
C	-5.4869948082	-1.8822798727	-0.0390224351
C	-5.3104077119	-1.6591159542	-1.5694088786
C	-6.7399978342	-1.6302489723	-2.1176550943
O	-9.4652392619	-1.3236883353	-2.2081892675
O	-9.3145800696	0.755890853	-0.7398660996
C	-4.4620510622	-1.1782694943	0.8387040236
C	-7.1947355465	0.2873196432	1.8270526077
O	-6.8771297719	-2.3948967428	-3.2895302073
O	-4.4258034658	0.2364160947	0.7354777686
N	-6.7704474649	1.6720836213	1.8444329296
O	-8.8053781805	2.5109493959	1.3090592666
C	-7.6072805441	2.6852402816	1.5493482419
C	-7.0093435216	4.0722083237	1.5529667215
H	-7.5308935717	-3.2633620153	-0.9658250549
H	-9.6782409135	-2.3402057777	-0.4473446575
H	-9.4963966004	-0.4937375254	0.8851686713
H	-6.8945338462	0.4120759943	-0.2926647307
H	-5.3229377965	-2.9513760639	0.1520705913
H	-4.7555656834	-2.481710325	-2.0282119887
H	-4.7734977245	-0.7352979121	-1.8134876011
H	-7.0413958026	-0.5933766058	-2.3162259114
H	-9.6905581552	-0.3762246019	-2.1878806348
H	-9.3183414356	1.5099782436	-0.1144809666
H	-3.4744282025	-1.6005847413	0.6047152598
H	-4.660570056	-1.3959699407	1.890661277

H	-8.1257169479	0.2136293231	2.3955262821
H	-6.4436464202	-0.2892171241	2.3640565478
H	-7.8057368603	-2.2801272109	-3.5439538643
H	-4.1835901792	0.4573128143	-0.1724836705
H	-5.7734977037	1.8272828364	1.8260415515
H	-5.9507107573	4.0931961961	1.8208990242
H	-7.1407529529	4.5183124416	0.5639951213
H	-7.567469061	4.6882213819	2.2619017369

calc_2a conf_4

C	-8.945953715	-1.6949082974	-0.6364476942
C	-8.7882312137	-0.3008487952	0.025238083
C	-7.2782987821	-0.1537527352	0.3508222841
N	-6.718733443	-1.5145109376	0.1755964308
C	-7.5098078545	-2.1112044561	-0.9057943905
C	-5.3510416566	-1.5969857054	-0.386165126
C	-5.464366166	-1.2595096947	-1.8881198992
C	-6.9409213054	-1.5308647848	-2.2204854829
O	-9.7249854459	-1.6636171732	-1.808956521
O	-9.2450699825	0.6674710364	-0.8873179786
C	-4.326177465	-0.8235071448	0.4122821063
C	-7.0012940003	0.4114478237	1.7575061507
O	-7.0772102749	-2.4170847745	-3.3073365463
O	-4.2733968114	-1.2707693638	1.75611044
N	-6.7597084739	1.8459109952	1.7832163643
O	-8.8224900463	2.4856555623	1.099169124
C	-7.6882594879	2.77621477	1.4802268114
C	-7.2681270978	4.218811477	1.6403597069
H	-7.3682813524	-3.1980268388	-0.9262206452
H	-9.4104271717	-2.385072168	0.0762903658
H	-9.3777350773	-0.2431869041	0.9465937952
H	-6.8667730157	0.5559969867	-0.3828775731
H	-5.077877686	-2.6576353223	-0.3010121242
H	-4.8189678113	-1.8984429775	-2.4954383342
H	-5.1909630893	-0.2199519379	-2.0955590298
H	-7.4512721371	-0.5859002364	-2.4464152429
H	-9.9374746486	-0.7226067928	-1.9445180712
H	-9.3011194059	1.495170134	-0.3721889562
H	-4.5515375336	0.2536296521	0.3794256299
H	-3.3355773952	-0.9577385032	-0.0360586616
H	-7.8373160947	0.1762199498	2.4251255445
H	-6.1076753586	-0.05282886	2.1732505366
H	-8.0329891451	-2.5093509179	-3.4357852133
H	-5.0561277076	-1.8263200272	1.8847027482
H	-5.8582478911	2.1600831519	2.1037883087
H	-7.9346595173	4.6972867497	2.3619141424
H	-6.2351459041	4.346666973	1.9716204723
H	-7.4027588352	4.732060087	0.6854584454

calc_2a conf_5

C	-8.9300797112	-1.5715042537	-0.4871691338
C	-8.6739907838	-0.1151911245	-0.0383440022
C	-7.1776485978	-0.0644980167	0.3513114492
N	-6.6569832509	-1.4439059621	0.1733445309
C	-7.5336003128	-2.0804222513	-0.8137673977
C	-5.3286321765	-1.5792842307	-0.4660159001
C	-5.5372943149	-1.2976675693	-1.9634408785

C	-7.0090982103	-1.6665578035	-2.2137666807
O	-9.8270696538	-1.6674319852	-1.5652810269
O	-8.9705275168	0.7143923444	-1.1379727939
C	-4.2472691016	-0.7961599908	0.2451300786
C	-6.9525520197	0.3614566303	1.803121061
O	-7.1134163965	-2.7165782947	-3.1532136033
O	-4.1366099569	-1.197215644	1.5988563179
N	-7.5267120999	1.6460234644	2.1993947702
O	-7.7436868079	2.7555429834	0.2107713495
C	-7.8148177356	2.7255416035	1.439536553
C	-8.2577297584	3.9551877432	2.2031530837
H	-7.4522666679	-3.1712863152	-0.7416536719
H	-9.3416383778	-2.143564581	0.3510169517
H	-9.3102484066	0.1540859489	0.816058339
H	-6.6881013138	0.6474718765	-0.3200851968
H	-5.0729403791	-2.641629279	-0.354388496
H	-4.8822275754	-1.903132037	-2.5940929245
H	-5.3503112139	-0.2453724327	-2.2013409283
H	-7.5580756195	-0.788377778	-2.5713816165
H	-9.8718258919	-0.7703389614	-1.9384214225
H	-8.6456870544	1.6042638175	-0.8973316514
H	-4.4469078419	0.2844641598	0.1779258982
H	-3.2834104238	-0.9747818236	-0.2429851298
H	-7.4085012654	-0.4038969429	2.4412783955
H	-5.8797480592	0.3639762802	2.023088746
H	-8.0615035683	-2.8766634515	-3.2615436131
H	-4.9737332393	-1.6345312965	1.8129158208
H	-7.5970900635	1.7799103942	3.1958055205
H	-8.3459217571	3.8093554381	3.2821396821
H	-7.539926758	4.7567274225	2.011637716
H	-9.2212161176	4.2825919182	1.8067098039

calc_2a conf_6

C	-9.0095328405	-1.4432301304	-0.7004649528
C	-8.673132616	-0.0483529952	-0.1157772281
C	-7.2261610508	-0.1572840526	0.420255519
N	-6.8521066941	-1.584231128	0.2816751552
C	-7.6449532926	-2.1008144748	-0.8312585337
C	-5.4786300756	-1.9135518734	-0.1372116177
C	-5.4175072944	-1.7015856517	-1.6730390926
C	-6.8864401528	-1.7134058547	-2.1187989785
O	-9.7010092557	-1.3734137988	-1.9262196172
O	-8.7852551303	0.881643606	-1.1698271377
C	-4.3445172812	-1.296390912	0.6668551061
C	-7.0811441672	0.2418466306	1.8884430988
O	-7.1059238005	-2.6204205754	-3.1755778293
O	-4.2080115311	0.1073005784	0.5695971524
N	-7.6493980533	1.5348489925	2.2687260534
O	-7.465515926	2.7380643273	0.3350346434
C	-7.7315456594	2.6655368441	1.5354851444
C	-8.1996202145	3.8949483634	2.2846639998
H	-7.693163416	-3.1962376548	-0.789046709
H	-9.6279802139	-2.000106141	0.0107274761
H	-9.3704687923	0.2164901862	0.6907159436
H	-6.5937788913	0.4963623295	-0.1861251518
H	-5.3881864625	-2.9940202323	0.0415183757
H	-4.8667755316	-2.5035926765	-2.1712659341
H	-4.9368641314	-0.7560275292	-1.9477401135

H	-7.1892075425	-0.7030203334	-2.421862133
H	-9.615972422	-0.4452809387	-2.2079282387
H	-8.359643044	1.7047795109	-0.8556518354
H	-3.41104352	-1.7995366429	0.3736789647
H	-4.5018107115	-1.5054344595	1.728602995
H	-7.5865255105	-0.5185289126	2.4912681695
H	-6.0185850062	0.2315973138	2.1471565454
H	-8.057408089	-2.5708956953	-3.3515680953
H	-3.9956659066	0.3258219914	-0.3462041387
H	-7.8618762567	1.6294023411	3.2491489651
H	-7.4016193671	4.6411392138	2.2542370913
H	-9.0584938776	4.3180022044	1.7592537615
H	-8.4725262714	3.7115782297	3.3265231766

calc_2a conf_7

C	-9.0389938442	-1.6023677418	-0.8076975225
C	-8.8942408553	-0.2090541948	-0.1407805263
C	-7.4474239363	-0.1543536582	0.4160876571
N	-6.9541883753	-1.5411743247	0.3340042064
C	-7.6114109251	-2.1245969079	-0.8369306913
C	-5.5232204355	-1.7191408635	0.0130287319
C	-5.3751128977	-1.544623204	-1.5215845274
C	-6.8078132995	-1.6418048372	-2.0589735897
O	-9.6131403314	-1.5400039417	-2.0935568456
O	-9.136598499	0.7707022014	-1.1206905458
C	-4.5594158732	-0.8718796651	0.8309389781
C	-7.3616339902	0.3890520824	1.8561877173
O	-6.9063655556	-2.5179566976	-3.1575959642
O	-3.2188040065	-1.0917136522	0.4489361488
N	-6.9684763881	1.7863602403	1.9420921292
O	-8.7936434346	2.6092058969	0.8871762776
C	-7.7225386166	2.798347977	1.4629135405
C	-7.1869212311	4.1945548745	1.6768639783
H	-7.5511386934	-3.2192334952	-0.8017571209
H	-9.6644827991	-2.2432769844	-0.1771756353
H	-9.6166865006	-0.099172862	0.6758944969
H	-6.8867458003	0.5298374574	-0.2402007895
H	-5.3070862761	-2.7698418685	0.2578783463
H	-4.761775064	-2.3348856983	-1.9607234217
H	-4.901913594	-0.591781505	-1.7747740487
H	-7.1652510412	-0.6436326685	-2.3469097446
H	-9.7234933256	-0.5895886303	-2.2752591001
H	-9.1754991108	1.6159480587	-0.6346608919
H	-4.7015100083	-1.067659458	1.905251661
H	-4.7377023009	0.1940423147	0.6563013218
H	-8.3240661801	0.2583831423	2.3622659597
H	-6.6274288897	-0.1855834464	2.4201943523
H	-7.8459011741	-2.5062469442	-3.3956387727
H	-3.0275894166	-2.0298704948	0.5762754389
H	-6.1022404218	2.0111796559	2.403294825
H	-7.0742908063	4.6805170448	0.7049006124
H	-7.9253314551	4.7679582891	2.2421674516
H	-6.230924647	4.2273545085	2.2042559071

calc_2a conf_8

C	-8.9364183686	-1.26106666	-0.4254765719
C	-8.6525066805	0.1729288926	-0.9448394261

C	-7.1530473372	0.422355723	-0.6577830258
N	-6.6578177862	-0.8171470137	0.0023263031
C	-7.5559030094	-1.8869243853	-0.4057809288
C	-5.3294695534	-1.3413646531	-0.385628424
C	-5.5362204186	-2.1052262047	-1.7188436474
C	-7.0579954844	-2.3338783732	-1.7920970608
O	-9.8538813631	-1.929264798	-1.2694009831
O	-8.8811410154	0.2409018826	-2.3334589614
C	-4.2227315708	-0.3044613204	-0.3917100308
C	-6.9026374054	1.6417847388	0.2285288693
O	-7.5056951623	-3.6691852604	-1.9867201761
O	-3.9432792971	0.2021219564	0.892390602
N	-7.3185278598	1.3550708403	1.5805426673
O	-7.8655545201	3.4896729061	2.1027007189
C	-7.7777268657	2.3167609915	2.427947558
C	-8.1697344279	1.8321154861	3.808526406
H	-7.4774944469	-2.7442725106	0.2745713773
H	-9.3484225465	-1.2125304758	0.5885072742
H	-9.2751332271	0.9114495297	-0.4228241247
H	-6.6779544735	0.5988668139	-1.6318435121
H	-5.0687140196	-2.0687145656	0.3925625597
H	-5.0008157635	-3.0587885334	-1.7149125748
H	-5.1806672436	-1.5245294507	-2.5765891966
H	-7.4943622415	-1.6825304467	-2.5570165629
H	-9.4287819098	-2.7440146793	-1.5839713153
H	-9.5931186638	-0.4052169131	-2.490986761
H	-4.4582452828	0.5007398451	-1.1054226399
H	-3.3004851018	-0.7772764717	-0.7412351677
H	-5.8445693652	1.934135941	0.1960764706
H	-7.4710774302	2.5017868793	-0.1341130173
H	-7.3232752571	-3.9226569043	-2.9005428009
H	-4.7831389988	0.4577698406	1.2960912926
H	-7.2500855029	0.3870192795	1.8629505229
H	-7.5198460153	2.3094569884	4.5463300068
H	-9.1909977887	2.1581583803	4.017298225
H	-8.1075265957	0.7479527046	3.9318460558

calc_2a conf_9

C	-8.8454894554	-1.0225025795	-0.6812051774
C	-8.1965345749	0.3667505145	-0.7140601033
C	-6.8847190564	0.1608237863	0.0476235806
N	-6.6357390955	-1.3060476932	0.0832401656
C	-7.6546792368	-1.9681762172	-0.7436646569
C	-5.366630498	-1.7842403623	-0.4987219472
C	-5.5882315165	-1.7153960831	-2.0094626736
C	-7.0224610659	-2.231060491	-2.1524061993
O	-9.7266724768	-1.2326836684	-1.7743378432
O	-7.9065233543	0.7181778029	-2.0531376653
C	-4.1575636208	-1.1071899055	0.1105712139
C	-6.9248275019	0.6939553038	1.4858987086
O	-6.9686201574	-3.6204360168	-2.4348523609
O	-4.1485642671	-1.2787771066	1.5154298082
N	-7.0890176199	2.1285070101	1.571610348
O	-9.3223232957	2.0798071948	1.9635498479
C	-8.2867851972	2.7183122075	1.8319002271
C	-8.2618344267	4.2273774816	1.948292518
H	-7.8983605629	-2.9487633129	-0.3190189053
H	-9.3692085845	-1.1626703071	0.2715651169

H	-8.8303093912	1.1260066715	-0.2420608348
H	-6.1045468404	0.6956374922	-0.5068459287
H	-5.3021550291	-2.846022103	-0.2225784719
H	-4.8961486	-2.3294247088	-2.5900270955
H	-5.5307014077	-0.6811651378	-2.3615491314
H	-7.5621272869	-1.7069366322	-2.944710004
H	-10.6009358269	-0.9139739719	-1.5173167744
H	-8.6420731299	0.3559786125	-2.5736693589
H	-4.1306846197	-0.0378490568	-0.1476801267
H	-3.2448211923	-1.5560823876	-0.2954072483
H	-7.7564924754	0.239506378	2.0287209806
H	-5.9950789069	0.4158868963	1.9894584212
H	-7.8771754777	-3.9204344172	-2.565305973
H	-5.0627054452	-1.4887911661	1.7584451155
H	-6.2755303388	2.7117756019	1.4620812649
H	-7.2729477585	4.6689374235	1.8025074546
H	-8.9502894109	4.6474948063	1.2114005334
H	-8.6334912979	4.5076881411	2.9367231747

calc_2a conf_10

C	-8.935405349	-1.8835560535	-0.5962126635
C	-8.9174379342	-0.4183917732	-0.0759531598
C	-7.4534308321	-0.1632771089	0.3538310248
N	-6.7428594136	-1.4546895612	0.1620895354
C	-7.473725145	-2.1457953559	-0.8896744947
C	-5.3750024034	-1.3960207215	-0.4008988715
C	-5.5360307902	-1.1051994119	-1.9117442048
C	-6.9921167712	-1.5125624163	-2.2115635328
O	-9.7777748287	-2.0028456593	-1.7279981575
O	-9.2968293118	0.4701879282	-1.0984778311
C	-4.4453890738	-0.4965817279	0.3864567078
C	-7.331546948	0.3246561327	1.7996506782
O	-7.2039590553	-2.4762479893	-3.2363796689
O	-4.2721702483	-0.9909751999	1.7025553417
N	-7.9142042663	1.6360654402	1.9848536369
O	-6.1401209888	2.7174836749	1.0847016148
C	-7.2685953908	2.7551384148	1.553288011
C	-8.0420072375	4.0489277504	1.68357371
H	-7.2192779637	-3.2126137318	-0.9104420637
H	-9.2948153927	-2.555659304	0.1895863638
H	-9.5992524181	-0.3085316748	0.7812668318
H	-7.0627955444	0.6286556172	-0.2977072109
H	-4.983211551	-2.4157224323	-0.2932275618
H	-4.8341949814	-1.6963685074	-2.5068135734
H	-5.3651959407	-0.0486139857	-2.1410378473
H	-7.5885257851	-0.6178259499	-2.422488127
H	-9.2393495453	-2.3399032359	-2.4630890924
H	-9.8632630059	-0.0676720274	-1.6823422651
H	-4.8146279517	0.5386315313	0.3980771169
H	-3.4585583273	-0.4899190079	-0.0871553875
H	-7.8287114115	-0.3800474333	2.4735386308
H	-6.2817184758	0.3841237025	2.0933288016
H	-7.0189446405	-2.059907024	-4.0879059445
H	-5.1082724443	-1.4139439343	1.9435495825
H	-8.8858888505	1.7057059949	2.2393512776
H	-8.8960318672	3.9812626423	2.3621633222
H	-7.3628173694	4.8273246166	2.0343567984
H	-8.4039405456	4.3457077813	0.6948926721

calc_2a conf_11

C	-8.9948258629	-1.4598172151	-0.6345882926
C	-8.6594651123	-0.0609527874	-0.0545972288
C	-7.1906437564	-0.1449517496	0.4218244718
N	-6.8151413159	-1.5738698287	0.3050392211
C	-7.6294910094	-2.1113219826	-0.782823291
C	-5.449457274	-1.9158845765	-0.1381890914
C	-5.4196307832	-1.7623222206	-1.680944202
C	-6.8979295764	-1.7408586213	-2.0888709941
O	-9.7014045193	-1.3936553951	-1.8525964454
O	-8.8351284245	0.8763300236	-1.0935209421
C	-4.3020386551	-1.2537522058	0.597203364
C	-6.9876928875	0.2921435296	1.8747449189
O	-7.1731132809	-2.6410760383	-3.1388414947
O	-4.2326510688	0.1250279447	0.2845873143
N	-7.6197319117	1.5488980512	2.2722402705
O	-7.4670048356	2.7648315383	0.3485405191
C	-7.7567082703	2.6762372309	1.5415865205
C	-8.3255237965	3.8689822861	2.2804135753
H	-7.6709356699	-3.2064914162	-0.722905233
H	-9.6041642463	-2.0183460185	0.0831536493
H	-9.3286724773	0.1820586124	0.7820745845
H	-6.5862192828	0.4949374035	-0.2265091655
H	-5.3480122497	-2.9845422776	0.0953153844
H	-4.9161298832	-2.6072682345	-2.1585719391
H	-4.9040857427	-0.8459925467	-1.9754734677
H	-7.1852050425	-0.7225434058	-2.3827663297
H	-9.6221185015	-0.4651140847	-2.1355218684
H	-8.376713764	1.6936806169	-0.8138962398
H	-3.3786628942	-1.7676533549	0.293694371
H	-4.4284283953	-1.4117112221	1.678966037
H	-7.4056510197	-0.4884988833	2.5164480848
H	-5.9124172897	0.3531650939	2.0688733864
H	-8.1294583962	-2.5695421017	-3.2785387666
H	-3.4063162999	0.4739558797	0.6384051072
H	-7.8707297424	1.6147894534	3.245586888
H	-8.5412361029	3.6850377799	3.3355431959
H	-7.614488889	4.6946745362	2.2015137895
H	-9.2437717701	4.1844161866	1.7794003382

calc_2a conf_12

C	-9.0203484916	-1.397402325	-0.6914499079
C	-8.7203904857	0.0257810319	-0.1583571334
C	-7.2930823426	-0.0460427783	0.4347909491
N	-6.8818155028	-1.4620047793	0.3388436602
C	-7.6433829246	-2.0397396336	-0.7659321428
C	-5.4866095196	-1.7589837937	-0.0352867532
C	-5.4057486735	-1.660418195	-1.5831247925
C	-6.8660189064	-1.6970527614	-2.0525993734
O	-9.6883042122	-1.3895210887	-1.9319100447
O	-8.8021013615	0.9100159025	-1.2530184604
C	-4.4193939672	-0.9563839267	0.6941484823
C	-7.2309374983	0.3746798029	1.9058854949
O	-7.0633941485	-2.6418560237	-3.0795284622
O	-3.1243478877	-1.4154787102	0.3703627356
N	-7.8264975247	1.6658732704	2.2410706079

O	-7.5736945389	2.8248020017	0.2908282602
C	-7.9047840868	2.7766452619	1.4757307187
C	-8.4517392746	4.007013128	2.166227601
H	-7.6773391575	-3.1324695658	-0.6751564372
H	-9.6461128139	-1.9332436266	0.0294056551
H	-9.4491261407	0.3160143152	0.6107127214
H	-6.6595508659	0.6178076179	-0.1633172189
H	-5.3222486616	-2.8063550212	0.2442575414
H	-4.8593214456	-2.5017331143	-2.0170902302
H	-4.9135413088	-0.7359885971	-1.9096582873
H	-7.1670481154	-0.6989970462	-2.3965700556
H	-9.6022430371	-0.4772519928	-2.2597219923
H	-8.4189245526	1.7568389665	-0.9509004167
H	-4.5198790662	-1.0919870486	1.774393432
H	-4.5211661062	0.1189939586	0.4776999192
H	-7.762912814	-0.3866495927	2.483787431
H	-6.1890334724	0.363350951	2.244408055
H	-8.012191966	-2.6070969912	-3.2725798532
H	-2.98872818	-1.2600744224	-0.5730028141
H	-8.1036815457	1.7689714048	3.2043956995
H	-9.3113198095	4.3718124307	1.5996406004
H	-8.7507122306	3.8458867472	3.2044778424
H	-7.6883273631	4.7882442431	2.1341369685

calc_2a conf_13

C	-8.9625560157	-1.4332445971	-0.5170484612
C	-8.6088695982	0.0209431887	-0.1826249012
C	-7.1757002644	-0.0337390022	0.3687392521
N	-6.6833355432	-1.4192899515	0.1452522751
C	-7.5983775412	-2.0694533255	-0.8102378416
C	-5.3730690807	-1.5160149385	-0.5302529044
C	-5.6638836579	-1.1619668193	-1.9891083702
C	-7.0107828288	-1.8687426552	-2.2424761868
O	-9.9193896317	-1.5450426523	-1.5279177056
O	-8.6721586191	0.7440880987	-1.3932644243
C	-4.2797709196	-0.7755231407	0.2101861108
C	-7.0788282599	0.2901260842	1.8586585435
O	-6.8804555722	-3.0896659419	-2.9431139087
O	-4.1595820188	-1.2645911123	1.5334505516
N	-7.586975831	1.6021652385	2.2532527849
O	-7.6938135527	2.7625973041	0.2794629276
C	-7.8012585162	2.7103218085	1.5022091192
C	-8.2213714383	3.9274824088	2.3046907443
H	-7.6303240888	-3.1493855105	-0.6187815334
H	-9.3714062779	-1.9132078136	0.3790997325
H	-9.3101079611	0.4451375313	0.5472828561
H	-6.5859863812	0.696260232	-0.1891514566
H	-5.1009139019	-2.5822583975	-0.482163043
H	-4.9023993763	-1.5046437462	-2.6942081624
H	-5.7713574155	-0.0784651623	-2.1071987512
H	-7.6691684995	-1.2630610891	-2.8638948027
H	-9.8214925954	-0.7428855661	-2.0658105508
H	-8.4181523906	1.6534452895	-1.1551125123
H	-4.4733639223	0.3074345617	0.2120713811
H	-3.3216198015	-0.9295163171	-0.296522703
H	-7.6498877165	-0.4657404318	2.4102613389
H	-6.0330725816	0.1996164575	2.1742681004
H	-6.3554195745	-3.6897578963	-2.3968879514

H	-5.0176524285	-1.6646383081	1.7402780982
H	-7.6855488724	1.7280819198	3.2492573023
H	-7.4734615812	4.1829444483	3.0615865437
H	-8.3393787393	4.7674501119	1.6221848558
H	-9.1721070044	3.7487396918	2.8165836529

calc_2a conf_14

C	-9.0500828562	-1.7721434218	-0.778782263
C	-8.9940485441	-0.2867717058	-0.3231123136
C	-7.615705539	-0.1289222415	0.3589372061
N	-6.9818237255	-1.4656901654	0.3169227663
C	-7.5879552344	-2.169278864	-0.800724759
C	-5.5405977111	-1.5375494566	0.0096202449
C	-5.4056985351	-1.4513529908	-1.5372143115
C	-6.836271186	-1.6768622524	-2.0486376874
O	-9.6903072019	-1.8853527134	-2.0367411478
O	-9.1010114142	0.5693093379	-1.4343895497
C	-4.674037877	-0.555264807	0.7740140657
C	-7.715752924	0.3611380212	1.8052646351
O	-7.0244965807	-2.6533301731	-3.0688199793
O	-3.3395639753	-0.8056950029	0.3712627302
N	-8.1804940861	1.7284738123	1.9001998153
O	-6.132742417	2.6211693916	1.5217546796
C	-7.3350458258	2.7739812124	1.6882796359
C	-7.9812681598	4.1420509256	1.6665135122
H	-7.4336692279	-3.2524507279	-0.7143312964
H	-9.5994481838	-2.3684516742	-0.0431540531
H	-9.8078288098	-0.0731825126	0.3873465119
H	-7.062958906	0.6237817725	-0.2189095562
H	-5.2199774168	-2.5400512251	0.3175024845
H	-4.730057167	-2.2224416078	-1.9155573301
H	-5.0082279909	-0.4819340021	-1.8508046067
H	-7.2697565264	-0.7235547618	-2.3735262065
H	-9.0568321379	-2.2922238827	-2.6529043174
H	-9.5934175089	0.0414227391	-2.0907125937
H	-4.7989537708	-0.7259981385	1.8536061368
H	-4.9668536328	0.4819116692	0.5661434798
H	-8.3910224477	-0.2871350223	2.3713829922
H	-6.7370433022	0.3146918339	2.2836649615
H	-6.6361359211	-2.3170185223	-3.8864914433
H	-2.7893067429	-0.1055485199	0.7410273771
H	-9.1723171623	1.9039483234	1.9035436596
H	-7.3220780211	4.8482758176	2.1730623341
H	-8.0837265154	4.4697093378	0.6276927143
H	-8.9674848152	4.1653401975	2.1370714714

calc_2a conf_15

C	-8.9439919306	-1.7557997992	-0.6930427533
C	-8.7617613403	-0.2347670347	-0.4357239497
C	-7.2828920487	-0.0643893324	-0.0092013905
N	-6.7375797543	-1.4381585112	0.1030873827
C	-7.5162657413	-2.2414139911	-0.8310269067
C	-5.3554317745	-1.6692159803	-0.3743842947
C	-5.4224173534	-1.7118514651	-1.9220919397
C	-6.9136416644	-1.9551322306	-2.219671275
O	-9.7390903682	-1.9713249086	-1.8440590364
O	-9.0103031564	0.5091060856	-1.606392951

C	-4.3352799929	-0.7252894138	0.2266074237
C	-7.1566865725	0.7150667225	1.2931945186
O	-7.2415971551	-3.057923741	-3.0545648106
O	-4.2251724156	-0.891995437	1.6210290413
N	-7.6988863658	2.0441837509	1.1048762613
O	-7.2467796437	2.6844854318	3.2209664885
C	-7.7104519428	2.9459516789	2.1224046855
C	-8.328270925	4.2914454775	1.8032921869
H	-7.3967605087	-3.3110235605	-0.6205392219
H	-9.4278672607	-2.2226972997	0.1703229713
H	-9.4327098597	0.1012824097	0.3664281336
H	-6.7930441989	0.5095720312	-0.8115713584
H	-5.0969483213	-2.673135469	-0.0162278859
H	-4.8089637656	-2.5241312616	-2.3217572839
H	-5.073403271	-0.7759910474	-2.3710013562
H	-7.3651933069	-1.0422580376	-2.6258261246
H	-9.2257274858	-2.5173319922	-2.4627585167
H	-9.6229646482	-0.0482118441	-2.1214919854
H	-4.5772208603	0.3162330987	-0.0393747524
H	-3.3502097484	-0.9415870837	-0.1980477336
H	-7.7018393278	0.1911798011	2.0882695364
H	-6.1158683362	0.7937321419	1.6215000941
H	-6.9746440314	-2.8479114986	-3.9586761856
H	-5.1158973042	-1.0638905291	1.9565979261
H	-8.128372854	2.2717207757	0.220901075
H	-9.1534484252	4.472205462	2.4961883553
H	-7.5816823283	5.0697685396	1.9780147643
H	-8.6987340118	4.3784980618	0.7787508677

calc_2a conf_16

C	-8.9644114101	-0.8944784265	-0.5175079932
C	-8.4785861238	0.4518892069	-1.102766798
C	-6.989726908	0.5528160301	-0.6898763165
N	-6.6854364586	-0.6904253691	0.0591913402
C	-7.673170133	-1.6735502849	-0.3615609194
C	-5.4137563664	-1.3814662069	-0.2272969828
C	-5.605747431	-2.1136319363	-1.5715453366
C	-7.138726933	-2.2734369106	-1.6816517977
O	-9.8970692387	-1.5108873509	-1.3910464386
O	-8.5617788787	0.4279779631	-2.5155100257
C	-4.2253284259	-0.4587008373	-0.0665762011
C	-6.6128644956	1.8483564289	0.0692035321
O	-7.6378779081	-3.6019794994	-1.7664987465
O	-4.2486709653	0.1205124982	1.2234025921
N	-6.6774293066	1.8081059854	1.515777935
O	-8.9232069479	1.5657299588	1.6739891631
C	-7.8348549794	1.6943374649	2.215885684
C	-7.6941030325	1.7209102736	3.7232932878
H	-7.7436096984	-2.4885000802	0.3701034693
H	-9.4274548772	-0.7174652333	0.4562358619
H	-9.0566214244	1.2863379399	-0.6976938108
H	-6.4418435833	0.5977800724	-1.6426492982
H	-5.324258613	-2.1428680843	0.5594157856
H	-5.1071559106	-3.086982303	-1.5766842924
H	-5.211715778	-1.5289672109	-2.4094578738
H	-7.5092018862	-1.6828204968	-2.525576085
H	-9.5855771871	-2.4109655928	-1.5707122589
H	-9.3312048758	-0.1410095737	-2.6961069596

H	-4.2327438346	0.317682585	-0.8477269849
H	-3.2919387159	-1.0202698418	-0.1783869058
H	-5.5825283775	2.1179952534	-0.1694179054
H	-7.2550907412	2.6522990146	-0.307495519
H	-7.4412001403	-3.9424191513	-2.6483542471
H	-5.1781030857	0.063381844	1.5033117404
H	-5.8226797862	1.9924524657	2.0157844022
H	-8.3749755708	2.4741129178	4.1252330505
H	-8.0091383762	0.7525637585	4.120374429
H	-6.680211595	1.9305827287	4.072897424

calc_2a conf_17

C	-8.9726266831	-1.8163430188	-0.9490636829
C	-8.9944051157	-0.6252996374	0.0434147369
C	-7.5166287435	-0.2231247779	0.2231923242
N	-6.8528837172	-1.5307890883	0.1228619407
C	-7.4943161891	-2.186007421	-1.0284252624
C	-5.4224647425	-1.591738583	-0.2552694576
C	-5.3543385557	-1.3115373594	-1.7671669057
C	-6.7522978701	-1.6667087678	-2.2918380411
O	-9.4481397595	-1.4279843007	-2.2337660605
O	-9.8548407853	0.4113355954	-0.3614313106
C	-4.5148546731	-0.752976027	0.6177653921
C	-7.3152904339	0.5132807782	1.5513646701
O	-6.6824208584	-2.6399477589	-3.3117066083
O	-4.6085050317	-1.1379820891	1.974677388
N	-7.9231650771	1.8238702343	1.5121466566
O	-5.9542243339	2.906273804	1.1631875426
C	-7.1726004501	2.9327273499	1.2471931451
C	-7.9530877849	4.2219342171	1.1007723236
H	-7.3251791997	-3.2675345188	-0.9840506097
H	-9.5754164529	-2.6499536922	-0.5747369806
H	-9.372306003	-0.9709918368	1.0104976137
H	-7.2304196379	0.4688353388	-0.5891138091
H	-5.1418253845	-2.639983683	-0.0878205511
H	-4.6019901718	-1.9288789079	-2.2634160427
H	-5.1103498688	-0.2639144264	-1.9687947788
H	-7.2475284272	-0.7697967444	-2.6776120013
H	-10.4132824626	-1.4409254993	-2.1956392339
H	-9.666486846	0.5528618541	-1.3021119558
H	-4.7326100182	0.3178610783	0.4897975354
H	-3.4773605773	-0.9089297598	0.3049214533
H	-7.7613023058	-0.0762628207	2.3617362634
H	-6.2644821105	0.6663865879	1.790618758
H	-7.5743166207	-2.712660734	-3.6768139071
H	-5.5071790088	-1.4730046349	2.1012685627
H	-8.9155624799	1.867052201	1.3328149343
H	-7.689737738	4.6879107798	0.1485564331
H	-9.0367206624	4.0912522644	1.1514937522
H	-7.6438532194	4.9076940044	1.8934957729

Table S36. Sampled and DFT geometry optimized conformers related to calc_2b, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_2b conf_1	-916.6558506	66.58%	-916.8926282	19.95%	-916.8414899	26.77%
calc_2b conf_2	-916.6545098	16.09%	-916.8935168	51.14%	-916.8420943	50.77%
calc_2b conf_3	-916.6542962	12.83%	-916.8927758	23.33%	-916.8404895	9.28%
calc_2b conf_4	-916.6527150	2.40%	-916.8886848	0.31%	-916.8374863	0.39%
calc_2b conf_5	-916.6516843	0.81%	-916.8908171	2.93%	-916.8403837	8.29%
calc_2b conf_6	-916.6513944	0.59%	-916.8889588	0.41%	-916.8384095	1.02%
calc_2b conf_7	-916.6511811	0.47%	-916.8900930	1.36%	-916.8388397	1.62%
calc_2b conf_8	-916.6498398	0.11%	-916.8873110	0.07%	-916.8364653	0.13%
calc_2b conf_9	-916.6493910	0.07%	-916.8890092	0.43%	-916.8387838	1.52%
calc_2b conf_10	-916.6473366	0.01%	-916.8841813	0.00%	-916.8329573	0.00%
calc_2b conf_11	-916.6471566	0.01%	-916.8857487	0.01%	-916.8352583	0.04%
calc_2b conf_12	-916.6467867	0.00%	-916.8849720	0.01%	-916.8341934	0.01%
calc_2b conf_13	-916.6467284	0.00%	-916.8856732	0.01%	-916.8350680	0.03%
calc_2b conf_14	-916.6466014	0.00%	-916.8852076	0.01%	-916.8354701	0.05%
calc_2b conf_15	-916.6464851	0.00%	-916.8840561	0.00%	-916.8326546	0.00%
calc_2b conf_16	-916.6452414	0.00%	-916.8835624	0.00%	-916.8341376	0.01%
calc_2b conf_17	-916.6447394	0.00%	-916.8859038	0.02%	-916.8357834	0.06%
calc_2b conf_18	-916.6435924	0.00%	-916.8831703	0.00%	-916.8330099	0.00%
calc_2b conf_19	-916.6435609	0.00%	-916.8827571	0.00%	-916.8328211	0.00%
calc_2b conf_20	-916.6433206	0.00%	-916.8835240	0.00%	-916.8331326	0.00%
calc_2b conf_21	-916.6422478	0.00%	-916.8820942	0.00%	-916.8320366	0.00%
calc_2b conf_22	-916.6416031	0.00%	-916.8819705	0.00%	-916.8322649	0.00%
calc_2b conf_23	-916.6408353	0.00%	-916.8800713	0.00%	-916.8287722	0.00%
calc_2b conf_24	-916.6380444	0.00%	-916.8766959	0.00%	-916.8264854	0.00%

Table S37. Cartesian coordinates of the optimized geometries for the conformers related to calc_2b. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S36.

calc_2b conf_1

C	-6.8075237742	-1.5203746315	-1.692037999
C	-7.6191987634	-0.8858882976	-0.56727615
C	-6.581974372	0.041774871	0.0961781365
N	-5.3349084474	-0.7256721602	0.0236376069
C	-5.4807780387	-1.8000679438	-1.0030273798
C	-4.1092991292	0.0494561195	-0.2594844501
C	-3.7151822452	-0.3329055522	-1.6930986438
C	-4.2079038224	-1.7710618226	-1.8714369634
O	-6.6384471252	-0.5796564967	-2.7320250464
O	-8.7316069063	-0.2367976838	-1.1147382967
C	-3.0651863108	-0.2913727507	0.8141387799
C	-6.8821010552	0.4415244932	1.5489181032
O	-3.2676912123	-2.7451004369	-1.4868629739
O	-3.0785261749	-1.6763639748	1.1070625828
N	-7.7383715298	1.605977508	1.7052144703
O	-9.696073753	0.5434742718	1.3106124739
C	-9.0837396968	1.5696303716	1.6087683202
C	-9.8140736157	2.8602565732	1.8939882499
H	-5.5414059147	-2.7827504959	-0.5198032007
H	-7.2767530975	-2.4381996317	-2.071556434
H	-7.9215550748	-1.6638677909	0.1493488504
H	-6.5249195476	0.954958447	-0.5159432868
H	-4.327664788	1.1224634593	-0.1914404961
H	-4.2561900489	0.3104940419	-2.3912121449
H	-2.6433047942	-0.2491173684	-1.8925677217
H	-4.4499726636	-1.979608061	-2.9151001208
H	-7.5005878126	-0.1424016302	-2.8202077091
H	-9.2985768899	0.0248475707	-0.3628970019
H	-3.274406827	0.2814682738	1.7299809383
H	-2.0543407358	-0.0384884667	0.4846666517
H	-5.9396704443	0.6765371772	2.0496886994
H	-7.3346944788	-0.3994907	2.083247507
H	-3.0017516268	-2.5403559504	-0.5697015708
H	-4.0265381042	-1.8551232846	1.2551706674
H	-7.3011476228	2.4869259121	1.9212562788
H	-10.386136178	3.144511506	1.00753463
H	-10.5313277039	2.6811209106	2.698280526
H	-9.1604696743	3.6882436239	2.1777241174

calc_2b conf_2

C	-6.9389606379	-1.839455981	-1.2721040309
C	-7.6643916	-0.7270460284	-0.5172259632
C	-6.683556628	0.4379975352	-0.6773121372
N	-5.425638052	-0.2159527286	-0.3500246069
C	-5.4970903486	-1.6320150334	-0.797669786
C	-4.1692956724	0.3933204573	-0.8067922099
C	-3.3197217889	-0.8123920443	-1.2113322464
C	-4.3437483078	-1.7784758096	-1.7952163786
O	-7.0424630926	-1.6312697578	-2.6653900863
O	-8.9397584633	-0.4896157829	-1.0357888864
C	-3.5864128341	1.2555389255	0.3404498571
C	-7.0072273806	1.6668622773	0.1631086458

O	-3.8145843815	-3.0806406646	-1.8830376119
O	-4.0001352933	0.7460678757	1.5869940198
N	-7.1409369391	1.4160551705	1.5807626077
O	-9.3396936944	0.8868101273	1.4423064299
C	-8.3263605318	1.0563129132	2.122472709
C	-8.3516877528	0.8870070285	3.6224976283
H	-5.2922865702	-2.3034225192	0.0462794793
H	-7.3188255583	-2.8343150537	-1.004133733
H	-7.7074021724	-1.0063365411	0.5438478937
H	-6.7102826136	0.7544656105	-1.7335573394
H	-4.3445046021	1.0305279116	-1.6866554493
H	-2.5243146642	-0.5528428712	-1.9136536928
H	-2.8610511811	-1.2715736863	-0.3276041451
H	-4.6754310276	-1.4197033271	-2.7774743209
H	-7.9634430919	-1.3697015885	-2.8216995201
H	-9.3984947843	0.0356801209	-0.3525887745
H	-3.9142596707	2.2994224861	0.2267608238
H	-2.491045148	1.256701104	0.2901123808
H	-7.9556482368	2.0785195256	-0.1923283337
H	-6.2438235161	2.4367969317	0.0229072592
H	-4.4157950009	-3.6003035764	-2.4308024794
H	-4.7144767021	0.1200714281	1.3231505469
H	-6.3059019756	1.4636850552	2.1469886859
H	-8.7217239227	-0.1127852516	3.8603437418
H	-7.3782788871	1.0335442573	4.0954372286
H	-9.0623472755	1.6034615044	4.0419717942

calc_2b conf_3

C	-6.8665426371	-1.9521762691	-1.1442396092
C	-7.5843345575	-0.8237112527	-0.3971881649
C	-6.618325309	0.3449010962	-0.589820495
N	-5.3561149999	-0.3030517478	-0.2375425611
C	-5.3805222042	-1.6281353845	-0.9007687544
C	-4.1078998756	0.3910155101	-0.6200883662
C	-3.38411108758	-0.5513863185	-1.5960449074
C	-4.4970401078	-1.4389446947	-2.1406044317
O	-7.1685717011	-1.8907644382	-2.523153709
O	-8.8671774741	-0.6233873339	-0.9141112405
C	-3.3233369926	0.7095637308	0.669840099
C	-6.9538142489	1.6112603009	0.1868363287
O	-3.9849173428	-2.6343129206	-2.6769891636
O	-4.2221643818	0.9874732152	1.7209595982
N	-7.1666286883	1.4435551192	1.6089596454
O	-9.3510317921	0.8715669626	1.4101073345
C	-8.3779811606	1.1310933113	2.1197715583
C	-8.4870582043	1.1254451948	3.6257482244
H	-4.9113225322	-2.3838270301	-0.2601088141
H	-7.1375858821	-2.9386835919	-0.7472719004
H	-7.6131738573	-1.0745301634	0.6710890874
H	-6.6460189652	0.6258806152	-1.6576241265
H	-4.367118168	1.3331155197	-1.1198444117
H	-2.8442296139	-0.0200361359	-2.3830757029
H	-2.663175592	-1.185173249	-1.0661854339
H	-5.0705087612	-0.8920282475	-2.8981418641
H	-8.105588133	-1.6405996418	-2.5704559856
H	-9.3262091991	-0.0656315584	-0.2553808501
H	-2.673830589	1.5785909819	0.5347350524
H	-2.6842129826	-0.1479967134	0.9314002437

H	-7.868824643	2.028217815	-0.2438434113
H	-6.1587735641	2.3499567723	0.0588628761
H	-4.715549544	-3.0569181322	-3.1475095872
H	-4.8981510221	0.2925112091	1.5712355586
H	-6.3948180946	1.6639006006	2.2204803741
H	-9.194560119	1.9017643639	3.9282735993
H	-8.9014568555	0.16709694	3.9456617991
H	-7.5353193285	1.294385565	4.1340321117

calc_2b conf_4

C	-6.9454285826	-1.5962470955	-1.4525350484
C	-7.7020871632	-0.7980389477	-0.3813418488
C	-6.6200641575	0.1400963137	0.2041748072
N	-5.3285716924	-0.4882687582	-0.0925036855
C	-5.5741254736	-1.7608995152	-0.8102763205
C	-4.3189477212	0.3088636215	-0.8236196746
C	-3.9600950849	-0.520477894	-2.068498622
C	-4.3616118715	-1.9579662519	-1.730666486
O	-6.8685017511	-0.8190246037	-2.6223579318
O	-8.7786229448	-0.1225465562	-0.9885652265
C	-3.1389401219	0.5508274477	0.1259111798
C	-6.7303546616	0.3496501435	1.7221799525
O	-3.3335194263	-2.689982267	-1.1042733151
O	-2.8038154556	-0.6480171188	0.8007433753
N	-8.0598691316	0.6259489266	2.2533227565
O	-8.7644152419	2.0898632108	0.6726429279
C	-8.9426847702	1.5123714368	1.7465231395
C	-10.195918577	1.7450635385	2.557373268
H	-5.6179029209	-2.5994193733	-0.1038471903
H	-7.4218017453	-2.5659161001	-1.6567875684
H	-8.0718881422	-1.4811345835	0.3984968245
H	-6.6949944711	1.1077337733	-0.2996749859
H	-4.7395258355	1.2789020027	-1.1158503774
H	-4.5566594827	-0.174218228	-2.9131480525
H	-2.9006363568	-0.4624981981	-2.3336860576
H	-4.6409370437	-2.5211674987	-2.6238710466
H	-7.7038282833	-0.3170492435	-2.626432313
H	-8.8558495824	0.7592643796	-0.5743168842
H	-3.3993767072	1.33170601	0.8562444564
H	-2.2508961099	0.8823534895	-0.4178246302
H	-6.0390789954	1.1481360338	2.0190286754
H	-6.3894815494	-0.5697455202	2.2051580208
H	-2.9124504666	-2.0943423959	-0.4553897956
H	-3.6759629191	-0.9542226171	1.1183332084
H	-8.2778452185	0.2181638785	3.1483564247
H	-10.2745831546	2.8129496534	2.7738710408
H	-11.0613091086	1.4731604315	1.9483296784
H	-10.2314180779	1.1871284751	3.4957773246

calc_2b conf_5

C	-6.7825739263	-1.7426225167	-1.5318658426
C	-7.5158053712	-1.191293345	-0.3110484506
C	-6.5906368096	-0.0443975341	0.1520302395
N	-5.2475636134	-0.5418203151	-0.1492806356
C	-5.3276688178	-1.6943381984	-1.0801430769
C	-4.27921142	0.4319192744	-0.6744512773
C	-3.3257839517	-0.4431580865	-1.4795789466

C	-4.2532106109	-1.4447053792	-2.1531571207
O	-6.9872649152	-0.8669691933	-2.6188018638
O	-8.7988095648	-0.7958968096	-0.6996052958
C	-3.6234129514	1.1778275681	0.4910803878
C	-6.7426129805	0.3361550779	1.642174229
O	-3.5364128721	-2.6025833964	-2.5261551058
O	-3.2967994206	0.2845613804	1.5257439645
N	-7.5414987659	1.5226563676	1.8898064285
O	-9.5477579447	0.5320982123	1.5550079474
C	-8.8896040392	1.5288430501	1.8567625093
C	-9.5682476657	2.8257394199	2.2262186318
H	-5.0761334377	-2.6233734555	-0.5521434546
H	-7.1123810615	-2.7611968487	-1.7816061264
H	-7.5503210091	-1.9640152578	0.4736548489
H	-6.8231148521	0.8404254188	-0.4608168284
H	-4.7737119172	1.1597635656	-1.3392444396
H	-2.7259133284	0.128157053	-2.1918391917
H	-2.6476428247	-0.9776911884	-0.8054790271
H	-4.7259588442	-0.9794634746	-3.0255862063
H	-7.9055619009	-0.5632067874	-2.5187949978
H	-9.2186768437	-0.3631794905	0.0738853534
H	-4.3065412206	1.9654978226	0.8528131629
H	-2.7096352009	1.679164622	0.1541090988
H	-5.7548978502	0.5206979778	2.0674903729
H	-7.1859234297	-0.4957917541	2.1988714925
H	-4.0829468116	-3.1005319826	-3.1458196174
H	-3.9166336559	-0.4585027595	1.3839256382
H	-7.0623065327	2.3751942123	2.1297075326
H	-8.8755963834	3.6323587464	2.476616264
H	-10.2004797485	3.141895855	1.3933448879
H	-10.2247475061	2.6427821491	3.0801745152

calc_2b conf_6

C	-6.5767415182	-1.9398427352	-1.5604375083
C	-7.4736655297	-1.3879157914	-0.4534155569
C	-6.6976758772	-0.1418093715	0.0046955261
N	-5.2992481762	-0.5638022284	-0.0605105899
C	-5.1841656164	-1.7442166485	-0.9615285098
C	-4.3332706093	0.4680875957	-0.4834114389
C	-3.9241130538	0.0670346832	-1.9079995737
C	-4.0147185945	-1.4614409573	-1.9297891709
O	-6.843091169	-1.1148054346	-2.6905152969
O	-8.792784055	-1.1313965855	-0.8641490497
C	-3.1878283287	0.5129107974	0.5347656522
C	-7.0946855214	0.345788497	1.3914580923
O	-2.8292005456	-2.1076328581	-1.5480944255
O	-2.7888366103	-0.7957347211	0.9096676997
N	-8.4765834347	0.7660536843	1.4047166989
O	-8.1301749414	2.5564017466	2.7534644928
C	-8.8879197128	1.8692862227	2.0848185115
C	-10.364101368	2.1884712131	1.9684292742
H	-4.9317185768	-2.6447633112	-0.3874034075
H	-6.7909654626	-2.9889172567	-1.7935756768
H	-7.526293069	-2.1122824889	0.3667445998
H	-6.9081693652	0.6610331051	-0.7212390974
H	-4.8216877247	1.4493432674	-0.4820703516
H	-4.6546714648	0.4793026798	-2.610224331
H	-2.9282569325	0.4115030043	-2.1989370462

H	-4.2357466686	-1.8313361447	-2.9360917645
H	-6.5095059056	-1.5531851678	-3.4817697437
H	-8.709754399	-0.7715690718	-1.7625737494
H	-3.5094532532	1.0689545063	1.4252697286
H	-2.3065762261	1.0109865596	0.1233542189
H	-6.4932394414	1.2047868174	1.7002184484
H	-6.9096496785	-0.4579448076	2.1182628632
H	-2.5826710767	-1.7510165674	-0.6705958045
H	-3.6195012854	-1.2046611606	1.2109382858
H	-9.1229079276	0.2535115683	0.8206694377
H	-10.8208623736	2.101620098	2.957672875
H	-10.4739722599	3.2277015792	1.6509554747
H	-10.9035922464	1.5404956833	1.2732302132

calc_2b conf_7

C	-6.68367873	-2.0734876136	-1.1824130631
C	-7.3750501844	-1.2714673245	-0.0614807053
C	-6.4668177379	-0.0483406862	0.1470105273
N	-5.135642442	-0.647328554	0.0011858894
C	-5.2279385466	-1.5894504296	-1.1318823041
C	-4.0215706956	0.2842947058	-0.3060003243
C	-3.5954506036	0.0042159177	-1.7614661851
C	-4.7753156372	-0.7610906122	-2.3406029447
O	-7.2564432595	-1.7879805556	-2.4409616886
O	-8.6874064943	-1.0001839245	-0.4564537296
C	-2.8997901437	0.0614070178	0.7067904331
C	-6.6106005332	0.6445106796	1.5107019136
O	-4.4199276916	-1.524860907	-3.4633798466
O	-3.3965309511	0.0877597301	2.0241915342
N	-7.5637455553	1.7395458626	1.5403271881
O	-9.4207109738	0.4566923128	1.7069150576
C	-8.8949103654	1.5706549299	1.675463921
C	-9.7245106872	2.8258391931	1.7996494167
H	-4.5215926268	-2.4174409114	-1.000327317
H	-6.7581237475	-3.1500875988	-0.9861710049
H	-7.349862218	-1.8678641642	0.8619942006
H	-6.6884847366	0.6880226586	-0.6451708958
H	-4.3833315315	1.3137726302	-0.1941539332
H	-3.3614941425	0.9136788433	-2.3193798611
H	-2.7100064045	-0.6424134212	-1.7917723599
H	-5.5774364908	-0.0577863651	-2.5969951457
H	-8.1722212283	-1.5208074422	-2.2506902278
H	-9.1348197166	-0.5643464942	0.2988046787
H	-2.1439790723	0.848014737	0.6256443266
H	-2.4053261667	-0.8990154549	0.491822852
H	-5.6423772956	1.0512391368	1.8124111094
H	-6.905261146	-0.0890860976	2.2683998659
H	-5.2535500301	-1.8807392842	-3.8031518282
H	-4.1128469055	-0.5689766204	2.0054765282
H	-7.2024127898	2.6790404376	1.5122429221
H	-10.4593281525	2.8429357974	0.991369694
H	-10.2786310036	2.783351148	2.7402669367
H	-9.1408733628	3.7487787231	1.7717843696

calc_2b conf_8

C	-6.8140483469	-1.8719041619	-2.0699457526
C	-7.9100716628	-0.8359618986	-1.8090415256

C	-7.2052863147	0.2248985022	-0.9170043031
N	-6.0723885629	-0.4558073618	-0.310476889
C	-6.054464409	-1.8598509655	-0.7441081235
C	-4.7292551007	0.1262043057	-0.3862348935
C	-3.8592306253	-0.9591600352	-1.0445182002
C	-4.5755193572	-2.2760393636	-0.7326660147
O	-6.0703654552	-1.3505638038	-3.1684942797
O	-8.4912536095	-0.3186694263	-2.9729339626
C	-4.2469031852	0.5255874546	1.0162900559
C	-8.2010270651	0.7619449047	0.114585197
O	-4.1929092519	-2.8348998254	0.4953385675
O	-4.5013659371	-0.4765583482	1.9766760608
N	-7.7039473765	1.8325219591	0.953676968
O	-7.0981281501	0.5103161105	2.6970873652
C	-7.2300951928	1.6282382256	2.2074724286
C	-6.8882018917	2.8746358774	2.9944944493
H	-6.5963110203	-2.5016308517	-0.0356654757
H	-7.2255469427	-2.856815234	-2.3211496642
H	-8.713873944	-1.313685213	-1.2362900262
H	-6.8683798449	1.0494670132	-1.5625752253
H	-4.7412641891	1.0326508973	-1.0083132739
H	-3.8394604889	-0.7931367615	-2.1241901838
H	-2.8302582167	-0.9791146784	-0.6755756772
H	-4.3705221167	-3.0432811168	-1.4877812394
H	-5.5146897478	-2.0529284075	-3.5255050985
H	-7.7655394015	-0.2827019376	-3.6170781872
H	-4.7297163812	1.4648640939	1.3155947947
H	-3.1664208544	0.7026071353	1.0089685743
H	-8.4850709307	-0.0544808274	0.7831778232
H	-9.0989518541	1.1166021031	-0.4040557674
H	-4.2585412518	-2.1200761102	1.1641353564
H	-5.458915462	-0.4249134673	2.1662771209
H	-7.7931540715	2.7800557988	0.6242373149
H	-6.9570224252	3.7992732822	2.4159914381
H	-7.5665019493	2.94191558	3.8491670669
H	-5.8763974124	2.7733965522	3.3924331819

calc_2b conf_9

C	-6.8419608461	-1.7519588169	-1.7003288569
C	-7.6095191294	-1.3222091149	-0.4520827964
C	-6.6316442673	-0.3368318234	0.2197166153
N	-5.3056112009	-0.8546366028	-0.1065303266
C	-5.4289572112	-1.8995874968	-1.1454040614
C	-4.304209041	0.1152422968	-0.5405780482
C	-3.330630328	-0.7402914704	-1.3424060195
C	-4.2584818371	-1.6799067895	-2.1200706403
O	-6.885255592	-0.6986287687	-2.6371271063
O	-8.8296478343	-0.7459604196	-0.826732576
C	-3.649863154	0.8693617895	0.6069396111
C	-6.8655397304	-0.1721942315	1.7377107555
O	-3.6540923545	-2.8619687295	-2.5882045722
O	-4.5157155474	1.8103952136	1.231230852
N	-7.2969903757	1.1520901669	2.1280561492
O	-9.4046531663	0.8791606794	1.3504125619
C	-8.5447307781	1.5914598052	1.8748360647
C	-8.8599893054	3.0071316133	2.2954387775
H	-5.3358707667	-2.8981999758	-0.6901813378
H	-7.2256535971	-2.6850630604	-2.1347484117

H	-7.7616059048	-2.1958666001	0.2032647865
H	-6.7848923629	0.6434813179	-0.2573650617
H	-4.7575423397	0.8638166253	-1.222459716
H	-2.6726696059	-0.1571336895	-1.9910680507
H	-2.7026286471	-1.3274423589	-0.6578932142
H	-4.6305721176	-1.1726815993	-3.0122293622
H	-7.7750919487	-0.3197012655	-2.5286972851
H	-9.1528832125	-0.208171062	-0.0719070609
H	-2.7423975458	1.3745827535	0.245109863
H	-3.3578162969	0.1623316686	1.3869096884
H	-5.9340922327	-0.3834294786	2.2618209759
H	-7.6183547408	-0.8842430775	2.0893422847
H	-3.3186339771	-3.3419334191	-1.8191263365
H	-4.7625040039	2.4531905236	0.553396579
H	-6.5693900479	1.8036635034	2.3803854133
H	-8.0114678991	3.5290654409	2.743583857
H	-9.2124679606	3.5667148645	1.4257875301
H	-9.6799730928	2.9813515882	3.0171984754

calc_2b conf_10

C	-7.0754529885	-1.2147352621	-1.0376276931
C	-7.2430362325	0.3173168345	-0.9212526647
C	-6.253868544	0.68976625	0.1825084699
N	-5.1160207824	-0.2144672175	0.0026704978
C	-5.6595487891	-1.5112611741	-0.4675628199
C	-4.0415562319	0.2324965837	-0.9204567615
C	-4.0068352049	-0.8136261507	-2.044081202
C	-4.6061260824	-2.0811438697	-1.4330394941
O	-7.2046681717	-1.6241359295	-2.3964799566
O	-6.8323119124	0.9353324891	-2.1215214442
C	-2.748743967	0.329834308	-0.0969916079
C	-6.815391256	0.5037110195	1.5994705288
O	-3.6604230499	-2.8859932026	-0.7723658687
O	-2.6425145749	-0.7722038377	0.7850333367
N	-7.9602337561	1.333294016	1.9011582758
O	-9.4979444132	-0.2671562575	1.4442370645
C	-9.2361178046	0.8674415027	1.8202628833
C	-10.3187635682	1.8444519134	2.2235806288
H	-5.7558421244	-2.2069365673	0.3718234746
H	-7.8327711053	-1.7125720022	-0.4263100615
H	-8.276598067	0.5908272127	-0.6805312728
H	-5.9296865289	1.727723328	0.0573603354
H	-4.2791357779	1.2183791253	-1.3293652504
H	-4.6412008114	-0.4713035906	-2.8652754339
H	-3.0040037704	-0.9987759841	-2.4381290701
H	-5.0783976506	-2.714385569	-2.1847331809
H	-8.107583473	-1.9347538577	-2.5317801689
H	-6.9943583836	0.2661958184	-2.8096021792
H	-2.7451119681	1.2679541035	0.4775128864
H	-1.8649113396	0.3262858258	-0.7398571102
H	-6.0173408056	0.7156124252	2.3168549292
H	-7.1286264329	-0.5318918012	1.7504096676
H	-3.1159998636	-2.2982062199	-0.2123535049
H	-3.5360033095	-0.7945512562	1.1845543188
H	-7.8053882888	2.2836281812	2.1955521644
H	-10.902961988	1.4028182192	3.034247352
H	-9.9412856699	2.817582808	2.5470750461
H	-10.9952353116	1.9894477853	1.3780048855

calc_2b conf_11

C	-6.9327349157	-1.6318355617	-1.5156860139
C	-7.663895802	-0.8719537647	-0.4015862099
C	-6.5667123964	0.0474383173	0.1866153342
N	-5.2849011443	-0.5785470525	-0.1557008287
C	-5.5377598835	-1.8128365345	-0.9276086424
C	-4.3204804134	0.2471375229	-0.8987059991
C	-3.426365592	-0.8088648559	-1.5388380831
C	-4.3879587336	-1.9352645782	-1.9352978575
O	-6.8722344317	-0.8026571103	-2.6519541191
O	-8.7568053168	-0.1837030829	-0.9619480138
C	-3.5966208968	1.1672144873	0.0830315712
C	-6.6311891365	0.2025859572	1.7121996323
O	-3.8349240597	-3.2352789067	-1.8354673163
O	-3.1361238331	0.4400708908	1.1954465117
N	-7.9272566271	0.5407553638	2.290454103
O	-8.6872501278	1.9915439192	0.7168764062
C	-8.8087094179	1.4455732229	1.8151626385
C	-9.994978296	1.7471408251	2.7016631451
H	-5.5254000657	-2.6899693563	-0.2688664526
H	-7.4156609875	-2.5907614265	-1.7509480152
H	-8.0114129884	-1.5795078123	0.3669461691
H	-6.6457125849	1.0306907839	-0.2867667237
H	-4.8211877021	0.8484003367	-1.6729708333
H	-2.8525649778	-0.4119574385	-2.3813557881
H	-2.7284402697	-1.1933059646	-0.78804921
H	-4.7784510989	-1.7600558359	-2.9439643156
H	-7.7049043215	-0.2968426545	-2.6165763089
H	-8.8276404265	0.6840857032	-0.5159287182
H	-4.2787564391	1.9765212276	0.3930336823
H	-2.7366658831	1.6401375696	-0.4026833893
H	-5.8804940636	0.938314777	2.0250255557
H	-6.3398403923	-0.7571043625	2.1485375537
H	-3.1988480284	-3.3365278962	-2.5539139274
H	-3.7882660365	-0.2807084036	1.278002373
H	-8.1036891679	0.1754604407	3.2127880976
H	-10.0014150808	1.1955436231	3.6444587873
H	-10.0016610158	2.8184874683	2.9162026506
H	-10.910087445	1.5215801618	2.1493725546

calc_2b conf_12

C	-6.2288353468	-2.6407197421	-0.9094431273
C	-7.4923459948	-1.8561088308	-0.4740284837
C	-6.9766550827	-0.5289738008	0.1181374122
N	-5.5009457887	-0.5735803124	0.0191758276
C	-5.1416074405	-1.5765965195	-0.9831690269
C	-4.8510108532	0.6902059586	-0.409202261
C	-4.3855458016	0.4856961429	-1.86945276
C	-5.0667967956	-0.8092553397	-2.3066987513
O	-6.3987907168	-3.3280989243	-2.1274860754
O	-8.2691479958	-1.6588978173	-1.6479392507
C	-3.7063560855	0.993130783	0.562765182
C	-7.4411184768	-0.2865638874	1.5539667471
O	-4.3371662538	-1.4782299461	-3.3023481084
O	-4.1236801571	0.786137128	1.8979397988
N	-7.0895492806	1.0219071996	2.0487992853

O	-9.1869272014	1.8612989029	1.8113017928
C	-8.0120869837	2.0212233462	2.1125402723
C	-7.4868884297	3.352234719	2.6063130946
H	-4.1476250683	-1.9958214365	-0.7822380426
H	-5.9815992453	-3.3726848778	-0.1332406475
H	-8.0749625104	-2.4276811862	0.2586070961
H	-7.3853523718	0.2799530848	-0.5037266142
H	-5.5879808738	1.4957614081	-0.3318063643
H	-4.6282167092	1.3331860176	-2.5138740947
H	-3.3012912909	0.3303147497	-1.9175886154
H	-6.0893812896	-0.5906914635	-2.6517532454
H	-7.2319795837	-2.9885499263	-2.4988932283
H	-9.1654645152	-1.4066025059	-1.3959339919
H	-3.3814289036	2.0329300111	0.4741463386
H	-2.842527984	0.3517991193	0.3318606975
H	-7.0144517574	-1.0572798761	2.2078913661
H	-8.531227573	-0.3503625876	1.6075017687
H	-4.7887836324	-2.3292183799	-3.4131203095
H	-4.5046547739	-0.1114167428	1.8564659857
H	-6.1072605384	1.2236340761	2.2063960915
H	-7.7450554799	4.1247551458	1.8783246792
H	-7.9963080703	3.6047701398	3.5397896491
H	-6.407993144	3.3623961707	2.7780199136

calc_2b conf_13

C	-6.4317990895	-2.4728624896	-1.3430893019
C	-7.2681817166	-2.0852505268	-0.1040193035
C	-6.7688634939	-0.6952245648	0.2701901471
N	-5.3319947314	-0.7710034167	0.0033809379
C	-5.1630741509	-1.6132185022	-1.2059201508
C	-4.6444506205	0.5214507947	-0.254844523
C	-4.0388545013	0.4146632313	-1.6628326227
C	-4.9275848386	-0.6118537155	-2.3422523993
O	-7.1311565383	-2.1485729052	-2.5220471016
O	-8.6515699609	-2.1312097354	-0.3976875469
C	-3.6016828217	0.7865482783	0.8266725333
C	-7.1450917273	-0.3397457828	1.7073252415
O	-4.3245200845	-1.1645456362	-3.4837925682
O	-4.1483001649	0.6314222567	2.1227692239
N	-7.0769635203	1.0694598695	2.0050865882
O	-9.0888853047	1.4358836579	1.0419120651
C	-8.0871187306	1.8792802176	1.5946794863
C	-7.9106112481	3.3541987283	1.8731724611
H	-4.2663190344	-2.2364439677	-1.1095060372
H	-6.19176016	-3.5434450929	-1.3387640436
H	-7.0551274482	-2.7852589888	0.7138429878
H	-7.2678348381	0.03299804	-0.3943794986
H	-5.3896252737	1.3266812709	-0.2225003531
H	-4.013329401	1.3727580459	-2.1868297235
H	-3.0141847672	0.0249439946	-1.6228070395
H	-5.8882341086	-0.1493360662	-2.5992178747
H	-8.07142765	-2.2156519325	-2.2765368224
H	-9.0371968368	-1.2628985968	-0.2097140902
H	-3.2245573661	1.8105813339	0.7579073473
H	-2.7500143114	0.1046782588	0.689679643
H	-6.5082383102	-0.8908900027	2.4054490406
H	-8.1765499996	-0.6566334119	1.8857751497
H	-5.0123798151	-1.6844867095	-3.9216282574

H	-4.4655586445	-0.286043688	2.1232191987
H	-6.1767258224	1.4369191708	2.286936274
H	-7.9300194178	3.8998731023	0.9264303034
H	-8.7608124729	3.7023024674	2.4643159182
H	-6.986401078	3.5899330133	2.4056247112

calc_2b conf_14

C	-6.5354555209	-2.201367372	-1.8058537946
C	-7.653096493	-1.6705506776	-0.9046169271
C	-7.049179126	-0.4080581765	-0.2633299399
N	-5.5925724952	-0.6269720388	-0.2829308644
C	-5.2993759796	-1.9090434758	-0.9634931476
C	-4.765181638	0.4187163769	-0.9045093468
C	-3.4892872128	-0.3437116607	-1.2478411731
C	-3.9871422347	-1.7094206067	-1.7302743434
O	-6.5109719077	-1.4350994747	-2.9882873194
O	-8.8126476136	-1.3143844096	-1.6363259861
C	-4.5579447937	1.5558102771	0.0976390545
C	-7.6299844065	-0.1941175065	1.135193886
O	-3.1218129163	-2.7886734061	-1.4340638459
O	-4.3207483609	1.0257444878	1.3890109935
N	-7.2452342727	1.0441207846	1.7633333507
O	-9.3652723077	1.8454249232	1.9586713837
C	-8.1639906147	1.9766311675	2.1402530006
C	-7.5876822514	3.2045498921	2.8143174376
H	-5.1585262875	-2.7112001884	-0.2287680077
H	-6.6404235945	-3.2726040934	-2.032646164
H	-7.893745529	-2.406750877	-0.1252825988
H	-7.3124024958	0.4522401524	-0.8923373861
H	-5.2325105395	0.8132233244	-1.8194075919
H	-2.8779440286	0.1825180161	-1.9865601795
H	-2.8913044172	-0.4901088062	-0.3416318906
H	-4.2027198727	-1.6710255145	-2.8042163709
H	-7.4357892319	-1.1771385079	-3.1436016806
H	-9.379226348	-2.0920764249	-1.7151111554
H	-5.4473259932	2.2006558504	0.1130118753
H	-3.7033822868	2.1742998682	-0.1967531998
H	-7.33811939	-1.0438678722	1.7678974792
H	-8.7210968433	-0.1754306218	1.0678761239
H	-2.3569648494	-2.7203903063	-2.0183630018
H	-4.6162759445	0.0942926426	1.3020872059
H	-6.2615948467	1.1965353731	1.9620169209
H	-7.9330419482	4.0921808047	2.2792611576
H	-7.9841404632	3.2655749516	3.831107274
H	-6.4958849447	3.2114731254	2.857528772

calc_2b conf_15

C	-6.6562235621	-2.1598478158	-0.8617009442
C	-7.5046303845	-1.0018979589	-0.2770771102
C	-6.4874692415	0.0073042853	0.2978490161
N	-5.146376412	-0.5757396353	0.0867094263
C	-5.2569310051	-1.5683412673	-0.9825635252
C	-4.1027272345	0.3866112942	-0.3492596803
C	-3.8654201622	0.1404918869	-1.8572999085
C	-5.0029816103	-0.7870692232	-2.2756642599
O	-7.1522843264	-2.6255498416	-2.0971332729
O	-8.2485320153	-0.4585651359	-1.3410866205

C	-2.8569165216	0.1698128505	0.5079341216
C	-6.6333454182	0.2827657825	1.7922399411
O	-4.6501672854	-1.6038222445	-3.3624322014
O	-3.1913839551	0.1630711251	1.8747166881
N	-7.8846242848	0.8867762211	2.2421653496
O	-8.8848203882	1.6064164268	0.3099545434
C	-8.8519398902	1.5140469909	1.5364079944
C	-9.9550442048	2.1336444008	2.3679668708
H	-4.4762790822	-2.33385867	-0.8905919357
H	-6.6507881779	-2.9997574384	-0.1593453325
H	-8.1812724016	-1.3696665195	0.5068766926
H	-6.6020715664	0.943679068	-0.2578146451
H	-4.4701343524	1.400658308	-0.1566785354
H	-3.8342939861	1.0653564492	-2.437252603
H	-2.9185038127	-0.3874149317	-2.0223378655
H	-5.8993587873	-0.1924218734	-2.5093414151
H	-7.7970182557	-1.9513390676	-2.3782163352
H	-8.6649384672	0.3511795577	-0.9851460148
H	-2.1344141639	0.9751854478	0.34682491
H	-2.3721616664	-0.774960919	0.2129473543
H	-5.7962530126	0.9194407145	2.1041406543
H	-6.520253849	-0.6722518779	2.3195347302
H	-5.3957254062	-2.2171625577	-3.459143956
H	-3.9221339042	-0.4769925479	1.914055702
H	-7.9872224066	0.9200633318	3.2443164628
H	-9.9563161415	3.2118391988	2.1897997783
H	-10.9139898403	1.7465893405	2.016939634
H	-9.8680528174	1.9527268452	3.4417062918

calc_2b conf_16

C	-6.6697376016	-2.0736884741	-1.9458820629
C	-7.8009213761	-1.4103194651	-1.16207246
C	-7.0894279222	-0.2630190416	-0.405114541
N	-5.7175359884	-0.7596426616	-0.18382695
C	-5.5158419862	-2.0156658	-0.9455546505
C	-4.6000090755	0.1500848395	-0.4890385092
C	-3.4449538667	-0.8161576281	-0.7294260123
C	-4.0912686541	-1.9480901413	-1.5233673886
O	-6.4581675686	-1.2380035511	-3.0789140917
O	-8.8783508622	-1.006883446	-1.9509142021
C	-4.3717170855	1.1012499992	0.688986464
C	-7.8643871041	0.067323378	0.8710724843
O	-3.401255145	-3.1742248284	-1.5268795296
O	-4.543477751	0.4066356953	1.9093305331
N	-7.3754522639	1.1940078506	1.6256353724
O	-9.1442236488	2.5472113775	1.1661771947
C	-8.0711059014	2.3617280347	1.7189603672
C	-7.4173183805	3.4300928386	2.57162414
H	-5.5942695317	-2.8836676627	-0.2748405296
H	-6.9159527515	-3.0945592682	-2.2554445692
H	-8.1942229164	-2.1278198953	-0.4318571502
H	-7.0704251112	0.625247504	-1.052267703
H	-4.7961152998	0.7381447139	-1.3993374181
H	-2.6025842217	-0.3551442334	-1.2499906766
H	-3.0836352242	-1.1939548539	0.2364968889
H	-4.1488484207	-1.6522474419	-2.5741080828
H	-6.0913560639	-1.7701212489	-3.7939236853
H	-8.4794162453	-0.6195201096	-2.7459763901

H	-5.0751761417	1.9417514305	0.6272351553
H	-3.357193646	1.5122330331	0.6527887037
H	-7.8756052366	-0.824279189	1.511952069
H	-8.8950786302	0.3017292084	0.5917917239
H	-3.2371650478	-3.4227039461	-0.607266655
H	-5.0339729456	-0.3979245465	1.6337312849
H	-6.4863186224	1.0962321942	2.1024102175
H	-7.2944274023	4.33327246	1.9691094249
H	-8.0904330125	3.680853305	3.3952377336
H	-6.4476513468	3.1368395702	2.9814635004

calc_2b conf_17

C	-6.8973764431	-1.8138260195	-1.4150402913
C	-7.5575143158	-1.1394876066	-0.2083102055
C	-6.5651891263	-0.0172253797	0.1383803186
N	-5.2921746534	-0.7143697121	0.0043168385
C	-5.3997110454	-1.6577980766	-1.1284900132
C	-4.0775117463	0.100845579	-0.1691754151
C	-3.397305375	-0.4430296347	-1.4375120445
C	-4.5485099494	-1.0297517167	-2.237328164
O	-7.2528217396	-1.1272093695	-2.5974827265
O	-8.8460356872	-0.7369294857	-0.573416447
C	-3.1671793241	0.0130476992	1.0547097801
C	-6.7208187304	0.5773716635	1.5441361657
O	-4.088187993	-1.9382681912	-3.2094098124
O	-1.9992253316	0.7945110557	0.9149762484
N	-7.6881697871	1.6572241228	1.6481924453
O	-9.5293851777	0.3522555169	1.8195146814
C	-9.0130056137	1.471000764	1.8175759018
C	-9.8452977832	2.7153238167	2.0166943142
H	-4.9520393416	-2.6244331772	-0.86381733
H	-7.1913834564	-2.8686561467	-1.4934807069
H	-7.5781644488	-1.8466826868	0.6332799477
H	-6.6877460916	0.7945566772	-0.602034278
H	-4.345893606	1.1572463048	-0.3233983077
H	-2.8430343802	0.3212254278	-1.987294483
H	-2.7030634506	-1.2581949805	-1.1901587351
H	-5.1252704035	-0.222086644	-2.7024577046
H	-8.1760641606	-0.8562752072	-2.4610881879
H	-9.2937194524	-0.4341718394	0.2425715794
H	-2.9367462305	-1.0458119095	1.2469093448
H	-3.6768987619	0.3947653956	1.9433895505
H	-5.7635342831	0.9906386763	1.868451366
H	-6.9954012492	-0.208254067	2.2539431357
H	-4.8431632785	-2.1365716966	-3.7785583788
H	-1.4634530706	0.3944545745	0.218640044
H	-7.3410509583	2.6021967324	1.6222337388
H	-9.2646910072	3.6405284508	2.028153953
H	-10.5916958963	2.7715755537	1.2207616405
H	-10.3855666501	2.6222655362	2.9616222371

calc_2b conf_18

C	-6.5193844578	-2.2452481528	-1.4121000295
C	-7.3246183735	-1.6167199099	-0.2613871435
C	-6.5830381004	-0.3017443675	0.0271216544
N	-5.1894119617	-0.73795884	-0.0659525733
C	-5.1203183037	-1.6306653193	-1.2350467282

C	-4.1586648796	0.3111922895	-0.254127092
C	-3.6034360889	0.1311953597	-1.6848604803
C	-4.6728587557	-0.7122896603	-2.369543952
O	-7.1580658465	-1.8488063804	-2.6137770908
O	-8.6927277162	-1.4784766662	-0.5438618801
C	-3.0888159445	0.1531581824	0.823886134
C	-6.9410408259	0.3014459611	1.3793077037
O	-4.2748391659	-1.504183636	-3.4733589404
O	-3.6607124866	0.1298643426	2.1042286536
N	-8.319059446	0.7307514374	1.3870874675
O	-7.8946656941	2.821004362	2.1702795
C	-8.6866927402	1.9875622633	1.7581292112
C	-10.1678888164	2.2845600868	1.6412436143
H	-4.3529978891	-2.4014140367	-1.0952324383
H	-6.5000096774	-3.3386835337	-1.348490331
H	-7.2380113755	-2.2550525302	0.6245240128
H	-6.8507500755	0.4308137261	-0.7557881683
H	-4.6289827049	1.2929625874	-0.1302613222
H	-3.4170470029	1.0861213419	-2.1840756746
H	-2.6627052849	-0.4328372348	-1.6681956233
H	-5.515877777	-0.0694616386	-2.6552368457
H	-6.5468434567	-2.0293762424	-3.3437136188
H	-8.7468867583	-1.3075938291	-1.4982560661
H	-2.3882624152	0.9930943107	0.7934114531
H	-2.5144985621	-0.7670331064	0.6234622277
H	-6.3289954614	1.1753736223	1.6138275371
H	-6.7601178281	-0.4470598487	2.1643529884
H	-3.9893913322	-0.9150763743	-4.1833009915
H	-4.3435203652	-0.557280372	2.0471905789
H	-8.9937281007	0.1120090069	0.9588254651
H	-10.7491597651	1.4723372485	1.197807057
H	-10.5619934251	2.4966492601	2.6383536224
H	-10.297981139	3.1888662905	1.0425281086

calc_2b conf_19

C	-6.5376228404	-2.3211741446	-1.1438365085
C	-7.2694671874	-1.6569042886	0.0341846995
C	-6.5813133782	-0.2885605117	0.1591708615
N	-5.1778032953	-0.6622890648	-0.0208163011
C	-5.1531710417	-1.6492876833	-1.1128575473
C	-4.2245021638	0.418608267	-0.3760928268
C	-3.7552238443	0.1396570168	-1.8190586082
C	-4.8111330626	-0.8207991484	-2.355729405
O	-7.2917347873	-2.0084068957	-2.3016440822
O	-8.6629934223	-1.6112506865	-0.1254150958
C	-3.0785433337	0.4193738212	0.6334879937
C	-6.8602040692	0.4011146427	1.4887171516
O	-4.4860541083	-1.5899165759	-3.4936761819
O	-3.5590292937	0.4734947384	1.9494520598
N	-8.253907278	0.7631856983	1.5833231145
O	-7.8793427664	2.9236449188	2.1782450979
C	-8.6569734744	2.0252649416	1.8959354847
C	-10.1564518594	2.2419550899	1.8857645611
H	-4.3557950103	-2.3879758561	-0.9440737476
H	-6.4734443324	-3.4088593618	-1.0267072392
H	-7.0645895384	-2.2241350785	0.9485493825
H	-6.9515993499	0.3654419186	-0.6507223171
H	-4.7437759206	1.381096572	-0.3092511346

H	-3.6596429248	1.0455592711	-2.4210835501
H	-2.7746814538	-0.3576446274	-1.8113590642
H	-5.697442076	-0.2544794509	-2.6509599932
H	-6.7597479315	-2.2313278577	-3.0796437442
H	-8.8136951432	-1.4983924166	-1.0781203783
H	-2.4373330134	1.2929528875	0.4824937124
H	-2.4594191738	-0.4794216978	0.4695141717
H	-6.2793423645	1.3190308197	1.6044255582
H	-6.5750594428	-0.2740883994	2.3087650729
H	-3.6845042236	-2.0933569827	-3.2946942457
H	-4.201809444	-0.2518382703	1.9987339971
H	-8.927313096	0.0802421432	1.264828284
H	-10.72829391	1.3684705144	1.5629184884
H	-10.4765210311	2.5209479494	2.8927923133
H	-10.3845194134	3.0840677878	1.2284399662

calc_2b conf_20

C	-6.3794813935	-2.6002444532	-0.8847284408
C	-7.6003725815	-1.6779146461	-0.6965787158
C	-7.0509610335	-0.4304220964	0.0189739061
N	-5.5799448365	-0.5087785866	-0.0670944005
C	-5.2007675101	-1.6328828967	-0.9169304073
C	-4.8357453524	0.6678956483	-0.5502851016
C	-4.1876700278	0.2618280276	-1.8990533083
C	-4.902720711	-1.0233615309	-2.2909371357
O	-6.4676595955	-3.4009226116	-2.0419108641
O	-8.0870448375	-1.3982623173	-2.0055771783
C	-3.7518078179	1.1017542243	0.4249346208
C	-7.5234006635	-0.3497052436	1.4723685877
O	-4.1028376877	-1.8424653417	-3.1068871344
O	-4.335602489	1.6555412921	1.5951955491
N	-7.0903252461	0.8660182328	2.1092431712
O	-9.1806296387	1.7514554067	2.2717248065
C	-7.9691899991	1.8605606238	2.4088263153
C	-7.3364387525	3.1141002032	2.9781299101
H	-4.2788352342	-2.1135995906	-0.5615453369
H	-6.2975600231	-3.2638412618	-0.0178088596
H	-8.3880247909	-2.1687260567	-0.1122966248
H	-7.426230373	0.4607561472	-0.5040014159
H	-5.5295180928	1.5075702885	-0.6782371302
H	-4.2622665752	1.0476604373	-2.6538322264
H	-3.1238311484	0.0274589958	-1.767777415
H	-5.8522187314	-0.7786040622	-2.7883540953
H	-7.146803885	-2.9719710592	-2.590998037
H	-8.9738736613	-1.0256729653	-1.9339347564
H	-3.1088936377	1.8477380675	-0.0643913076
H	-3.1347040205	0.2276603563	0.6725995502
H	-7.1441413039	-1.2200065667	2.0227629754
H	-8.6155347942	-0.3543384596	1.520842375
H	-4.5940113503	-2.6750049876	-3.1813291518
H	-3.6459955488	1.7543117874	2.2620621893
H	-6.0935227992	1.063718807	2.1036894342
H	-7.3959795881	3.0831806866	4.0705664745
H	-6.2893983978	3.2276510293	2.6873932983
H	-7.9090558706	3.9788644722	2.6401758803

calc_2b conf_21

C	-6.8706444466	-1.7248768251	-0.912581398
C	-7.4262068504	-0.2911688396	-0.814738339
C	-6.34231908	0.4639527449	-0.0356811506
N	-5.1224715855	-0.369880122	-0.0849940288
C	-5.3611248419	-1.5403942838	-0.9261981074
C	-3.8691574193	0.2640230836	-0.5488353984
C	-3.4806594784	-0.4363243751	-1.8676987246
C	-4.7322549568	-1.1996537071	-2.2876667423
O	-7.2932174505	-2.3797185678	-2.1060849646
O	-7.552289813	0.2701753662	-2.1060235496
C	-2.7995286173	0.117398459	0.5354037977
C	-6.7104249603	0.7357890822	1.4283807106
O	-4.4067481983	-2.3312021848	-3.0589861322
O	-3.2902322626	0.5081947542	1.794244286
N	-7.8682472177	1.584726563	1.5994114682
O	-9.3261847218	-0.1088730976	1.9830512484
C	-9.1011118425	1.090616046	1.8947619344
C	-10.186061469	2.1226504414	2.1143519931
H	-4.8449732146	-2.4279335242	-0.5371482486
H	-7.1746638272	-2.2998179976	-0.0313286827
H	-8.3897946251	-0.2715058208	-0.2932018971
H	-6.1822014467	1.4235653708	-0.544388025
H	-4.0579218615	1.3330696431	-0.7005440607
H	-3.1383658986	0.2633828507	-2.6329779363
H	-2.6785220586	-1.1653761272	-1.7009575632
H	-5.4058043996	-0.5281527348	-2.8338375474
H	-8.1038601451	-2.868087256	-1.9176292767
H	-7.7648983955	-0.4769617934	-2.6891710608
H	-1.9357565319	0.7494416135	0.3087537806
H	-2.4494360133	-0.9273397443	0.5571578566
H	-5.8509778466	1.2027710543	1.9189118664
H	-6.9247099344	-0.2072244599	1.9368132912
H	-5.2486026777	-2.7666429181	-3.2522281555
H	-4.0933183405	-0.0275785633	1.8974641352
H	-7.7491946582	2.5819200755	1.5264607781
H	-9.858347648	3.153536683	1.9592698709
H	-11.0166419829	1.9076804309	1.4384631917
H	-10.5631232821	2.0208186798	3.1350007805

calc_2b conf_22

C	-6.5032116316	-2.2800054016	-1.3684617081
C	-7.3503508264	-1.5923495516	-0.2722166264
C	-6.5894387489	-0.2959449513	0.0320191442
N	-5.2014731115	-0.7446006439	-0.0509705228
C	-5.1225352319	-1.6345630377	-1.2229468285
C	-4.1734096545	0.3091559054	-0.242980208
C	-3.6450182422	0.1552741651	-1.6834385473
C	-4.6863838117	-0.7133807731	-2.3739678753
O	-7.0349312952	-1.9959045234	-2.66269525
O	-8.6973452509	-1.4176448643	-0.6443561515
C	-3.0905736323	0.1348181037	0.8189738727
C	-6.9488511985	0.3080536055	1.3844777547
O	-4.1546491673	-1.3924365086	-3.4827238604
O	-3.6487874712	0.0857670232	2.1060683457
N	-8.3210483932	0.7557716199	1.3937765448
O	-7.8662125665	2.8544231442	2.1361416823
C	-8.6720226888	2.0232928203	1.7493075529
C	-10.1515613091	2.3333158264	1.6468725064

H	-4.3374808706	-2.386941056	-1.084630703
H	-6.4649863824	-3.3641475057	-1.2242846513
H	-7.3571618902	-2.2162139905	0.6266827474
H	-6.8387726754	0.4483414306	-0.7481867167
H	-4.6444797711	1.2866343949	-0.0918766366
H	-3.4940768747	1.1131743046	-2.1853313442
H	-2.6881162354	-0.3807761071	-1.6936172603
H	-5.53811424	-0.0910213445	-2.6783857793
H	-7.73516152	-2.6399281517	-2.8295721546
H	-8.6687191945	-0.992796808	-1.5157243833
H	-2.3934768912	0.9775914518	0.7952811168
H	-2.514807927	-0.7790816856	0.5960258394
H	-6.3266169833	1.1738474311	1.6211868796
H	-6.7771912456	-0.4440550623	2.1675760434
H	-4.9064677946	-1.8277960641	-3.9071874798
H	-4.3350316731	-0.5970147041	2.0373125808
H	-9.0133786009	0.1360676714	0.9985782918
H	-10.5302312179	2.5654733114	2.6454422453
H	-10.2803728667	3.2291943256	1.0354356544
H	-10.7475509143	1.5204062002	1.2243958846

calc_2b conf_23

C	-7.110479108	-1.6175104069	-0.6852964058
C	-7.6806549415	-0.2923643254	-1.2283825977
C	-6.6760279708	0.7754059218	-0.7595747616
N	-5.5031085986	0.0492539702	-0.2447633925
C	-5.6153864679	-1.366532706	-0.5794804163
C	-4.1710312822	0.5057906493	-0.6944728682
C	-3.6046032974	-0.6122811679	-1.5956937732
C	-4.7923080351	-1.535289694	-1.8660100482
O	-7.3581876171	-2.7072888862	-1.5733173893
O	-7.6834885151	-0.3144143729	-2.6441164481
C	-3.3233775988	0.7922658318	0.554018119
C	-7.2007505581	1.8355908909	0.2331283091
O	-4.3674832754	-2.8564932821	-2.1007737886
O	-4.1067358481	1.4559042167	1.5158025504
N	-7.1825519443	1.4917141709	1.6413543782
O	-8.8254690331	-0.0647026992	1.5660368509
C	-8.0219269047	0.594688306	2.214090979
C	-7.9093547494	0.4565402428	3.7174959303
H	-5.1550758455	-1.9962500719	0.1934268079
H	-7.537559593	-1.8151108822	0.3006359247
H	-8.6867622372	-0.1014118297	-0.8428418419
H	-6.4190939282	1.3385470238	-1.6676637822
H	-4.2986798386	1.4440497366	-1.2460058414
H	-3.1543102705	-0.2293785883	-2.5139069605
H	-2.8387811179	-1.1922412176	-1.0670944533
H	-5.3749665607	-1.1510283324	-2.7132626487
H	-8.1670464809	-3.1509380685	-1.2909052917
H	-7.7988989921	-1.2495227159	-2.8817572758
H	-2.4658632179	1.4262012743	0.3098837466
H	-2.9314599131	-0.1573357204	0.9541727286
H	-8.2165522764	2.1185683191	-0.0649709696
H	-6.5716001227	2.7238312173	0.1421080731
H	-5.1768325918	-3.372916961	-2.2201951872
H	-4.9326855274	0.9323314928	1.4834353282
H	-6.5758884559	2.0317196823	2.2377757141
H	-7.0987693051	1.0416058622	4.1581335226

H	-8.8557554209	0.7642654697	4.1695381973
H	-7.7604925585	-0.5972623498	3.9624489819

calc_2b conf_24

C	-6.6444574678	-2.184341141	-1.5439792899
C	-7.7928595229	-1.1185926758	-1.4549436698
C	-7.3553356382	-0.1617549613	-0.3157641831
N	-5.9426902933	-0.4177609088	-0.0656946333
C	-5.7566591962	-1.8507396361	-0.33097286
C	-5.0211422642	0.287580397	-0.9839211187
C	-3.7975846082	-0.6373112487	-1.0594031117
C	-4.2428899206	-1.9986582863	-0.4864316395
O	-5.9317006264	-2.0470110343	-2.7470612587
O	-7.9711114456	-0.4793417766	-2.7120528839
C	-4.7097950079	1.7055582195	-0.5238291728
C	-8.2094961868	-0.4101778553	0.9423620856
O	-3.635236822	-2.2804181905	0.7633866897
O	-5.7865411953	2.5958040036	-0.703537772
N	-7.6466964902	0.1091651217	2.1708914593
O	-7.5528050665	2.2580502278	1.4806799047
C	-7.3141297762	1.4064011284	2.3357093169
C	-6.6406337932	1.7639015378	3.6403802555
H	-6.0913547113	-2.4444337333	0.5290134776
H	-7.0516408249	-3.2025030179	-1.4681548209
H	-8.7477565978	-1.6044467593	-1.227923814
H	-7.4886439553	0.8811861311	-0.6059830586
H	-5.4572319267	0.3700045766	-1.9904684662
H	-3.4491321485	-0.7294912364	-2.0891319789
H	-2.961877657	-0.2628374861	-0.457386619
H	-3.9771819182	-2.8304550254	-1.1388352875
H	-6.5287609583	-1.5477445166	-3.3345378499
H	-7.5811836235	0.4030331147	-2.6631745497
H	-3.877710357	2.0879738174	-1.126618764
H	-4.3710758003	1.6737124163	0.5228812824
H	-8.3571844808	-1.4823201379	1.0997726838
H	-9.1986939395	0.029945397	0.7780981128
H	-3.8839912593	-1.5521111049	1.3495889664
H	-6.3551753718	2.5694336504	0.0867969677
H	-7.3118668615	-0.5539209268	2.8499126183
H	-5.6168630144	2.0866238198	3.4328119476
H	-7.1658617496	2.6135602514	4.0810030993
H	-6.6140475228	0.9454378489	4.3635179347

Table S38. Sampled and DFT geometry optimized conformers related to calc_2c, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_2c conf_1	-916.6593144	93.88%	-916.8940084	88.54%	-916.8411975	73.40%
calc_2c conf_2	-916.6561823	3.40%	-916.8918926	9.42%	-916.8399559	19.71%
calc_2c conf_3	-916.6553274	1.38%	-916.8898102	1.04%	-916.8382855	3.36%
calc_2c conf_4	-916.6552247	1.23%	-916.8894586	0.71%	-916.8381521	2.92%
calc_2c conf_5	-916.6523443	0.06%	-916.8866502	0.04%	-916.8339035	0.03%
calc_2c conf_6	-916.6511297	0.02%	-916.8883109	0.21%	-916.8362275	0.38%
calc_2c conf_7	-916.6510022	0.01%	-916.8856609	0.01%	-916.8346381	0.07%
calc_2c conf_8	-916.6507502	0.01%	-916.8850608	0.01%	-916.8344792	0.06%
calc_2c conf_9	-916.6496278	0.00%	-916.8839994	0.00%	-916.8329005	0.01%
calc_2c conf_10	-916.6487700	0.00%	-916.8857021	0.01%	-916.8337733	0.03%
calc_2c conf_11	-916.6487010	0.00%	-916.8832926	0.00%	-916.8332605	0.02%
calc_2c conf_12	-916.6468637	0.00%	-916.8815696	0.00%	-916.8310224	0.00%
calc_2c conf_13	-916.6457891	0.00%	-916.8846577	0.00%	-916.8328106	0.01%
calc_2c conf_14	-916.6445246	0.00%	-916.8827466	0.00%	-916.8317578	0.00%
calc_2c conf_15	-916.6441171	0.00%	-916.8810170	0.00%	-916.8291855	0.00%
calc_2c conf_16	-916.6436037	0.00%	-916.8797328	0.00%	-916.8289386	0.00%
calc_2c conf_17	-916.6434575	0.00%	-916.8820410	0.00%	-916.8310253	0.00%
calc_2c conf_18	-916.6429565	0.00%	-916.8777842	0.00%	-916.8273620	0.00%
calc_2c conf_19	-916.6428849	0.00%	-916.8786364	0.00%	-916.8278920	0.00%
calc_2c conf_20	-916.6425687	0.00%	-916.8787206	0.00%	-916.8274909	0.00%
calc_2c conf_21	-916.6424392	0.00%	-916.8778239	0.00%	-916.8258961	0.00%
calc_2c conf_22	-916.6423425	0.00%	-916.8785005	0.00%	-916.8281990	0.00%
calc_2c conf_23	-916.6422630	0.00%	-916.8760118	0.00%	-916.8255323	0.00%
calc_2c conf_24	-916.6422249	0.00%	-916.8773204	0.00%	-916.8270534	0.00%
calc_2c conf_25	-916.6421984	0.00%	-916.8772600	0.00%	-916.8268987	0.00%
calc_2c conf_26	-916.6421715	0.00%	-916.8781638	0.00%	-916.8280307	0.00%
calc_2c conf_27	-916.6420646	0.00%	-916.8772723	0.00%	-916.8268253	0.00%
calc_2c conf_28	-916.6419182	0.00%	-916.8790238	0.00%	-916.8283886	0.00%

calc_2e conf_29	-916.6414649	0.00%	-916.8763347	0.00%	-916.8263286	0.00%
calc_2e conf_30	-916.6413011	0.00%	-916.8762497	0.00%	-916.8250859	0.00%
calc_2e conf_31	-916.6409741	0.00%	-916.8755981	0.00%	-916.8241265	0.00%
calc_2e conf_32	-916.6408285	0.00%	-916.8778290	0.00%	-916.8273658	0.00%
calc_2e conf_33	-916.6407598	0.00%	-916.8769028	0.00%	-916.8266625	0.00%
calc_2e conf_34	-916.6401777	0.00%	-916.8778566	0.00%	-916.8273923	0.00%
calc_2e conf_35	-916.6401356	0.00%	-916.8744093	0.00%	-916.8230158	0.00%
calc_2e conf_36	-916.6398480	0.00%	-916.8748831	0.00%	-916.8243886	0.00%
calc_2e conf_37	-916.6397383	0.00%	-916.8757712	0.00%	-916.8254365	0.00%
calc_2e conf_38	-916.6396444	0.00%	-916.8767428	0.00%	-916.8261981	0.00%
calc_2e conf_39	-916.6392437	0.00%	-916.8793164	0.00%	-916.8282140	0.00%
calc_2e conf_40	-916.6392215	0.00%	-916.8762287	0.00%	-916.8262948	0.00%
calc_2e conf_41	-916.6387064	0.00%	-916.8780046	0.00%	-916.8274347	0.00%
calc_2e conf_42	-916.6386646	0.00%	-916.8756762	0.00%	-916.8253078	0.00%
calc_2e conf_43	-916.6382805	0.00%	-916.8747320	0.00%	-916.8248691	0.00%
calc_2e conf_44	-916.6374710	0.00%	-916.8750000	0.00%	-916.8236343	0.00%
calc_2e conf_45	-916.6373683	0.00%	-916.8729987	0.00%	-916.8230565	0.00%
calc_2e conf_46	-916.6368994	0.00%	-916.8726268	0.00%	-916.8215026	0.00%
calc_2e conf_47	-916.6364445	0.00%	-916.8725305	0.00%	-916.8229899	0.00%
calc_2e conf_48	-916.6363982	0.00%	-916.8750007	0.00%	-916.8236258	0.00%
calc_2e conf_49	-916.6348422	0.00%	-916.8716995	0.00%	-916.8210615	0.00%
calc_2e conf_50	-916.6347653	0.00%	-916.8732921	0.00%	-916.8227527	0.00%
calc_2e conf_51	-916.6329818	0.00%	-916.8725001	0.00%	-916.8220643	0.00%
calc_2e conf_52	-916.6306019	0.00%	-916.8703707	0.00%	-916.8204293	0.00%

Table S39. Cartesian coordinates of the optimized geometries for the conformers related to calc_2c. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S38.

calc_2c conf_1

C	-6.8736049234	-2.3148339446	-4.1837253314
C	-8.0757480558	-1.9796885431	-3.2814986425
C	-8.190143612	-3.2301994749	-2.3993650546
N	-8.0247543195	-4.2884271867	-3.3833464889
C	-6.9897673352	-3.8416360554	-4.3431241493
C	-7.7611583704	-5.6992180736	-3.0309292397
C	-6.455190287	-6.0594485708	-3.7924294181
C	-5.770681964	-4.7193089385	-4.0199086973
O	-5.6998886066	-1.8453259514	-3.5510546216
O	-7.8915021957	-0.7857121277	-2.5736938295
C	-7.6657274605	-6.0556036914	-1.5468125968
C	-9.503476252	-3.25968671	-1.6178102405
O	-5.077914424	-4.2903146342	-2.8543984408
O	-6.6206345504	-5.3765095523	-0.8716686891
N	-9.4298184646	-2.3751636908	-0.4695926922
O	-8.2779043008	-3.8756751952	0.7843221316
C	-8.7411927982	-2.741802114	0.6338883656
C	-8.5916844641	-1.694506271	1.7096425452
H	-7.30850659	-4.0806830652	-5.3675563628
H	-6.9394893521	-1.8030930557	-5.148106047
H	-8.9885357742	-1.8903336579	-3.8826456665
H	-7.3724835236	-3.1877027572	-1.6639354509
H	-8.5799048134	-6.3209946135	-3.4210584089
H	-6.6915622235	-6.5205945177	-4.7560172733
H	-5.8153456349	-6.7508310333	-3.2372583721
H	-5.0399144243	-4.7401375829	-4.8323353752
H	-5.2859795765	-2.6151897148	-3.0994390807
H	-6.9191197143	-0.7165804525	-2.5050440189
H	-7.4769089273	-7.135360732	-1.4908795786
H	-8.6106513084	-5.8753183863	-1.029428366
H	-10.336216103	-2.9425174877	-2.2518454058
H	-9.7385151673	-4.2562731906	-1.246240565
H	-5.5496234312	-4.6419091476	-2.0620111652
H	-7.0492278493	-4.7928709975	-0.2124764999
H	-9.5254658639	-1.3869793366	-0.6533718704
H	-9.1092737222	-0.7598832099	1.4845825177
H	-8.9779995757	-2.1011884061	2.6469243632
H	-7.5284840407	-1.4894979295	1.8586477163

calc_2c conf_2

C	-6.6615626247	-2.4177208805	-3.8469617348
C	-7.7869842054	-2.1179710375	-2.8491860751
C	-8.0074381884	-3.4643641146	-2.1334346733
N	-7.8660398941	-4.4012607085	-3.2354556211
C	-6.946328571	-3.8691123963	-4.25126095
C	-7.6243864916	-5.833053238	-3.0236081316
C	-6.5827508483	-6.1887182062	-4.1138315938
C	-5.8080013813	-4.8977559239	-4.3499462165
O	-5.4131241098	-2.2551023349	-3.1898771438
O	-7.3682233932	-1.0595921069	-2.0368620115
C	-7.2070935217	-6.2534341728	-1.6072569973
C	-9.389985811	-3.5873189563	-1.4583106875

O	-4.8297510425	-4.7865984028	-3.3302963895
O	-6.0796282003	-5.6187499325	-1.0775978645
N	-9.3754177649	-3.3780793508	-0.0220789377
O	-9.2785639815	-1.1193327946	-0.1177791882
C	-9.3134818938	-2.157817928	0.5464368395
C	-9.3084715099	-2.1160060869	2.0549739907
H	-7.442808665	-3.857314269	-5.2342567872
H	-6.6916188295	-1.7435547814	-4.7103167895
H	-8.700677055	-1.8640981769	-3.4073059702
H	-7.2327803519	-3.5939934244	-1.3623961145
H	-8.5454972225	-6.4016448496	-3.2261231843
H	-7.0914296315	-6.4871236786	-5.0359413787
H	-5.917028568	-7.0040615052	-3.8179867959
H	-5.322933716	-4.8722575888	-5.3338001085
H	-5.5997054502	-1.6448622095	-2.4505986811
H	-8.0388911339	-0.9413149697	-1.3282733647
H	-7.0857255709	-7.3508704333	-1.6318942172
H	-8.0383976207	-6.0612724759	-0.9154469179
H	-10.0973158739	-2.8773116061	-1.8970996967
H	-9.7902841087	-4.5879145692	-1.6317851489
H	-4.7265516445	-3.8281073963	-3.1495295389
H	-5.4740091105	-5.4149873476	-1.8227566018
H	-9.2940619176	-4.1866077821	0.5733816936
H	-8.3754652822	-1.6572614286	2.3914850759
H	-10.1255243044	-1.4716812266	2.3869615877
H	-9.4130605098	-3.096771709	2.5240163248

calc_2c conf_3

C	-6.4171740365	-2.5713102188	-3.8546736011
C	-7.3414695056	-1.9677100613	-2.7971445632
C	-7.8724773911	-3.2143941952	-2.0563197843
N	-7.9794591984	-4.199324267	-3.1148684624
C	-7.2444422302	-3.7696978872	-4.3158569461
C	-7.8304982262	-5.6314769017	-2.8742965
C	-7.4047617742	-6.1469680963	-4.2619624979
C	-6.5517837223	-5.0306052315	-4.8778894398
O	-5.2314704002	-2.9344040315	-3.1601259803
O	-6.7203150225	-1.0227228231	-1.9633344374
C	-6.8633713729	-6.0013254896	-1.744910966
C	-9.1895672477	-2.9640946864	-1.3272079231
O	-5.1705676468	-5.1568909246	-4.5651638915
O	-5.5330650574	-5.5480155265	-1.9456042685
N	-9.0036622484	-2.0035906325	-0.2640172949
O	-10.1841578334	-3.1727125029	1.2827113614
C	-9.4983898726	-2.2053688559	0.9874143921
C	-9.1490207227	-1.1353117166	2.0009637516
H	-7.9520082131	-3.4075015795	-5.0789659192
H	-6.1839060666	-1.8705219622	-4.6649921198
H	-8.1740758551	-1.4544719709	-3.2907907067
H	-7.124479443	-3.4768761505	-1.2868999652
H	-8.7976747085	-6.0741542524	-2.5951783522
H	-8.2986717538	-6.2932927533	-4.8756182223
H	-6.8637593916	-7.0968175256	-4.2286089379
H	-6.6024070395	-5.0366478459	-5.9688614462
H	-4.7774234529	-3.5682702631	-3.7547726985
H	-5.835688226	-1.3763671382	-1.7791276505
H	-6.8069732938	-7.0903223685	-1.6658119686
H	-7.2460193334	-5.6306483114	-0.7853513076

H	-9.9421489928	-2.6241904457	-2.0514286698
H	-9.5716790181	-3.8781247405	-0.8659384647
H	-5.122478791	-5.5665205783	-3.6721152326
H	-5.5362808814	-4.5726952781	-1.9718661142
H	-8.3703122835	-1.2358129512	-0.4388120126
H	-10.0743121811	-0.6822830508	2.3653006175
H	-8.6615401525	-1.6083772656	2.856592208
H	-8.500507413	-0.3481795197	1.6085340148

calc_2c conf_4

C	-6.727583951	-2.4814269701	-3.9696822434
C	-7.8267375142	-1.9397592954	-3.0531785659
C	-8.1711603647	-3.1685744001	-2.1875653217
N	-8.0378437597	-4.2715700928	-3.1182549064
C	-7.2855291847	-3.8615109558	-4.3160482416
C	-7.659398608	-5.6127429175	-2.6774352421
C	-7.0274891003	-6.2034759196	-3.9519222941
C	-6.3340484302	-5.0303464966	-4.6562699263
O	-5.5554203207	-2.5283563148	-3.1682011646
O	-7.4574989378	-0.7998889843	-2.3240412841
C	-6.750568236	-5.6584507914	-1.4448263127
C	-9.549041133	-3.1025004804	-1.5273332808
O	-4.9852284111	-4.8599081587	-4.2398420132
O	-5.4992403403	-5.0059981602	-1.6253608684
N	-9.5773950642	-2.1589162234	-0.4317346773
O	-9.1123720865	-3.7437874779	1.1283228835
C	-9.2685526501	-2.5669618432	0.8328107557
C	-9.159601544	-1.4654229908	1.8646922106
H	-7.9754025622	-3.7345120077	-5.1658849659
H	-6.5607540931	-1.8511391374	-4.8515875392
H	-8.6985298519	-1.6618042088	-3.6565142035
H	-7.4380036266	-3.2026667994	-1.3633115649
H	-8.5551599987	-6.1903191524	-2.4067100039
H	-7.8221310338	-6.5886803237	-4.5980581611
H	-6.3313140471	-7.0233758779	-3.7540736672
H	-6.2859803333	-5.1777018734	-5.7375359577
H	-4.9564147461	-3.1470140666	-3.6373799492
H	-6.5406328535	-0.9539868027	-2.0471407587
H	-6.5178742146	-6.7016277089	-1.2143289303
H	-7.2720695004	-5.2432846266	-0.5735892357
H	-10.312244986	-2.8386092587	-2.2670495892
H	-9.8065360064	-4.0763335602	-1.1074241191
H	-4.9477148891	-5.140477452	-3.2967211464
H	-5.6624888044	-4.0542794372	-1.7583447168
H	-9.441438475	-1.1852180896	-0.6598585053
H	-9.3881933072	-0.4712986424	1.4735533421
H	-9.8425220484	-1.690057113	2.6870110904
H	-8.1468849855	-1.4640153884	2.2758190747

calc_2c conf_5

C	-7.2014432377	-2.3144769854	-4.3652207606
C	-7.4757635893	-1.9542237828	-2.8875337085
C	-8.0850199733	-3.2357690556	-2.2790763789
N	-8.0479861437	-4.262892433	-3.3355896027
C	-7.0783658451	-3.8365828716	-4.3456989877
C	-7.7063338365	-5.6662701518	-3.0037095268
C	-6.3094531717	-5.9233142949	-3.6513585756

C	-5.7711775291	-4.5210835566	-3.9157551686
O	-6.1002683798	-1.6291648557	-4.8871965076
O	-6.2766122128	-1.5492446564	-2.2618367545
C	-7.7298968413	-6.0520956591	-1.5292524786
C	-9.507849986	-3.0628479267	-1.7428920204
O	-5.2195575532	-3.9815303963	-2.7137518143
O	-6.6651518125	-5.466949656	-0.7878576682
N	-9.5276452754	-2.3158154602	-0.4961404674
O	-8.5139110617	-3.9360863252	0.7225487162
C	-8.9980858763	-2.8055966327	0.646046492
C	-9.0347501884	-1.8912553013	1.8472145488
H	-7.3444649052	-4.2518550825	-5.328300087
H	-8.0847346457	-2.0662568368	-4.9663731555
H	-8.1510936298	-1.097433236	-2.8039686463
H	-7.4623335785	-3.4936205621	-1.423909764
H	-8.4472590364	-6.316509555	-3.4880161741
H	-6.4185194787	-6.4667952001	-4.5941365262
H	-5.6395989257	-6.502780611	-3.0094310407
H	-4.9937611105	-4.478313657	-4.681695193
H	-5.6445581137	-1.2740622389	-4.1021075052
H	-5.7015398399	-2.3495493777	-2.2765758821
H	-7.6302296408	-7.1432845077	-1.4772864226
H	-8.6852232758	-5.7899286835	-1.0669694032
H	-10.1410770269	-2.5422325252	-2.4662646563
H	-9.9563179436	-4.0441601285	-1.5690591012
H	-5.5718571227	-4.5057927065	-1.9618449685
H	-7.0864888815	-4.9290692347	-0.09162718
H	-9.8470897287	-1.36125629	-0.5048515372
H	-9.5960561072	-0.9688588425	1.6823902729
H	-9.4746364227	-2.4343836627	2.6860621335
H	-8.008888072	-1.6356570603	2.1250255

calc_2c conf_6

C	-6.7767353238	-2.3396637531	-3.9914167253
C	-7.9638045582	-2.0062621222	-3.0937844449
C	-8.1095145358	-3.2830266789	-2.2569143141
N	-7.8201457853	-4.3586634489	-3.2028261332
C	-7.038079973	-3.8044416274	-4.3358752037
C	-7.1099626071	-5.561686799	-2.7248062181
C	-5.6465705221	-5.3484281546	-3.1124565167
C	-5.7672472926	-4.6849827758	-4.4871164178
O	-5.5973984383	-2.1983746997	-3.2149565419
O	-7.6720197846	-0.8660581169	-2.3299479179
C	-7.2799013947	-5.9213616322	-1.25901736
C	-9.4977949914	-3.3994066749	-1.5917708365
O	-4.6309585242	-4.0096680316	-4.948697762
O	-8.6143372063	-6.2033781635	-0.8640786819
N	-9.443249675	-3.5310107659	-0.1531736686
O	-8.8561389405	-1.3674804656	0.1484336295
C	-9.0859468062	-2.4859675356	0.617761554
C	-9.0026618436	-2.7365945845	2.1037468513
H	-7.633018685	-3.8372564407	-5.2575107943
H	-6.7192669144	-1.7062686167	-4.8847703526
H	-8.8649788304	-1.8582238751	-3.7088104512
H	-7.352771309	-3.2061548493	-1.4612018806
H	-7.4944601517	-6.4169059335	-3.3086910317
H	-5.0586087938	-6.2700058767	-3.1403695334
H	-5.1721013691	-4.646457343	-2.4171374494

H	-5.9659699941	-5.4614367768	-5.2341069954
H	-5.7922704151	-1.4492109057	-2.6203816899
H	-8.1318846965	-0.9446311677	-1.4647125906
H	-6.9492102769	-5.1044889172	-0.6135742172
H	-6.6283598458	-6.780880172	-1.047508782
H	-10.1002148055	-2.5145936381	-1.8199859515
H	-10.0113474192	-4.2718164874	-1.9920449107
H	-4.4948541013	-3.2656560769	-4.3382228222
H	-8.9645894977	-6.8779443869	-1.4598026793
H	-9.4454293914	-4.472037975	0.2145877336
H	-9.2181850473	-3.7701881437	2.3830760681
H	-8.0034576103	-2.4676933428	2.4542723443
H	-9.7115526429	-2.0766930443	2.6097926936

calc_2c conf_7

C	-6.5099237508	-2.5215859594	-4.1339453034
C	-6.8936606868	-1.5646215217	-3.0036938247
C	-7.3981490681	-2.5240346956	-1.8999149688
N	-7.9931977978	-3.6095990138	-2.6506825665
C	-7.653507676	-3.5289520035	-4.075643792
C	-8.079557692	-4.9846528566	-2.1807299773
C	-8.2479739762	-5.7621857558	-3.5001612266
C	-7.446160496	-4.9837264375	-4.5505443006
O	-5.2574455824	-3.0768008419	-3.7509636706
O	-5.8547628831	-0.7220319021	-2.5930547417
C	-6.8865763873	-5.4399961433	-1.3353897641
C	-8.3517945822	-1.8188235147	-0.9321789052
O	-6.0897742085	-5.4084917951	-4.6340213839
O	-5.6336211924	-5.342617371	-1.9971848522
N	-8.5455771331	-2.5098665304	0.3269015061
O	-10.5506276177	-3.4432866045	-0.1910897465
C	-9.6577159425	-3.2418293851	0.6166947476
C	-9.7177562985	-3.7983110317	2.0254518222
H	-8.4971247129	-3.1069008661	-4.647155703
H	-6.4209395337	-2.0178766142	-5.1037188231
H	-7.7177521969	-0.9218195445	-3.333764185
H	-6.5110314944	-2.8348767569	-1.3179475105
H	-8.9729619108	-5.1145906964	-1.5555053363
H	-9.30540617	-5.7547946397	-3.7804810005
H	-7.9261648503	-6.8057921056	-3.4381265753
H	-7.8527029243	-5.1185957881	-5.5552849316
H	-5.1624557661	-3.8786304992	-4.308041526
H	-5.0514328484	-1.2643612889	-2.6323778527
H	-7.0114079363	-6.4931606087	-1.068627945
H	-6.8594699156	-4.8705131173	-0.397127579
H	-7.9527071108	-0.8211766429	-0.7171765197
H	-9.3320263736	-1.7192262554	-1.4032608551
H	-5.8320087742	-5.7013213715	-3.7312028762
H	-5.4860230665	-4.4099802885	-2.2472761262
H	-7.8696924915	-2.3567937043	1.0576923059
H	-10.5836465201	-3.3674472025	2.5344580505
H	-9.8795606461	-4.8770458486	1.9699033968
H	-8.8237017861	-3.6026827969	2.6231725403

calc_2c conf_8

C	-7.1587817012	-2.3314264424	-4.3489187981
C	-7.2527184753	-2.0171172751	-2.8352914139

C	-7.8807907449	-3.2603092074	-2.2000926619
N	-7.992726737	-4.2667918068	-3.2759782639
C	-7.1415036279	-3.8639521412	-4.3928111626
C	-7.5621088882	-5.6404512304	-2.9700391119
C	-6.0336646389	-5.6219150866	-3.117742827
C	-5.7547042719	-4.5709761734	-4.2023064687
O	-6.0732363256	-1.6821887523	-4.963114182
O	-5.9516911787	-1.8076906936	-2.3036690019
C	-8.0550726673	-6.2488803949	-1.6585317736
C	-9.2813212557	-3.0014794348	-1.6319099701
O	-4.6804539281	-3.6950847218	-3.87381861
O	-7.4053372429	-5.7462396904	-0.5179468698
N	-9.2804750958	-2.2319944328	-0.404994782
O	-9.0677561	-4.0382136727	0.9465641458
C	-9.1575356194	-2.8197993831	0.8073386761
C	-9.1512555243	-1.8977071538	2.002685639
H	-7.5790828548	-4.2279490758	-5.3301010743
H	-8.0693649579	-1.9753227069	-4.8401126921
H	-7.8534008798	-1.1135575306	-2.6583922922
H	-7.2320514017	-3.5958869103	-1.3838268101
H	-7.9890947529	-6.2651700797	-3.7689055977
H	-5.6149745733	-6.6029020282	-3.3567754717
H	-5.5884080236	-5.2981803574	-2.1709153559
H	-5.4463274547	-5.0320831201	-5.1431681295
H	-5.3061216286	-2.2772983697	-4.8277785834
H	-5.5382228112	-1.1868054876	-2.9296389786
H	-7.8564330214	-7.3274377079	-1.7193551226
H	-9.1449558405	-6.1354920568	-1.5923720753
H	-9.8979363054	-2.486550298	-2.3748001588
H	-9.7648267517	-3.9550877515	-1.4178193931
H	-4.9184490781	-3.2521870375	-3.0346947757
H	-8.0327796199	-5.2088083615	0.0008511698
H	-9.2891803206	-1.2264251834	-0.4554140339
H	-9.3399620718	-0.8509379318	1.7535483324
H	-9.9088174695	-2.2401985137	2.7106006478
H	-8.1814761594	-1.9755017981	2.5006478316

calc_2c conf_9

C	-6.716259386	-2.3627110181	-3.6896297955
C	-7.7037752979	-2.1181408066	-2.5228160772
C	-8.0094333475	-3.5158864072	-1.9573730598
N	-7.8772689398	-4.3867639581	-3.114364075
C	-7.0877738138	-3.7665496544	-4.1822398887
C	-7.5839695737	-5.8159731985	-2.9937138231
C	-6.7330016284	-6.0988301455	-4.253360769
C	-5.996083608	-4.7937829866	-4.5355403271
O	-5.3952046318	-2.2669516864	-3.1942799866
O	-7.0924533139	-1.2442002364	-1.6036738416
C	-6.9344065753	-6.260179429	-1.674398872
C	-9.4377357906	-3.6573620662	-1.4059332582
O	-4.8465526661	-4.7514358391	-3.7088566487
O	-5.7747532248	-5.5742553582	-1.3035622024
N	-9.9231541972	-2.6223552186	-0.4970513091
O	-8.0471959231	-2.257525636	0.7282669339
C	-9.2516618775	-2.0789118166	0.5397773278
C	-10.056402701	-1.1968990762	1.4662813093
H	-7.7071992413	-3.6499797216	-5.0866716004
H	-6.84500349	-1.618599715	-4.484516442

H	-8.6246805745	-1.6662435981	-2.9174536876
H	-7.2769793065	-3.754274024	-1.1772548595
H	-8.5143036812	-6.4012906947	-3.0649288717
H	-7.3865271932	-6.341950927	-5.0973437934
H	-6.0329457465	-6.9277126908	-4.1189868903
H	-5.694226053	-4.7046460102	-5.5868039182
H	-5.4945068641	-1.7735785172	-2.3525250603
H	-7.2567784352	-1.5885024276	-0.6991943988
H	-6.7644323688	-7.3482826486	-1.759267333
H	-7.6536459793	-6.1289783711	-0.8561649329
H	-10.1105362333	-3.6555461171	-2.2674632916
H	-9.532106173	-4.6364139578	-0.9197161938
H	-4.7169325237	-3.8107131041	-3.4617018056
H	-5.2655572369	-5.3901152747	-2.1211080339
H	-10.9114676174	-2.4320823325	-0.5452522401
H	-9.5990728718	-0.2051854518	1.4896400566
H	-11.1089405884	-1.0991448251	1.1906691142
H	-9.9900713253	-1.6080450535	2.4765125452

calc_2c conf_10

C	-6.622332946	-2.4156912325	-3.8349604814
C	-7.766437461	-2.0461008462	-2.8983075912
C	-8.0552100857	-3.3942671617	-2.2243647534
N	-8.0033249417	-4.3298371681	-3.3504767749
C	-7.0593970072	-3.7814247352	-4.3632400809
C	-7.5604643454	-5.711523423	-3.0979259272
C	-6.0408174147	-5.678451177	-3.2701183668
C	-5.9187095823	-4.830395043	-4.5419501619
O	-5.4442119796	-2.5200050321	-3.0452252139
O	-7.329462409	-1.0336087303	-2.035541484
C	-8.0956429072	-6.4141540633	-1.8582871781
C	-9.3949364196	-3.4357368119	-1.4646322337
O	-4.6563621877	-4.3083191321	-4.837586059
O	-7.7014639042	-5.8770367694	-0.6063078974
N	-9.2405924365	-3.404982813	-0.025389024
O	-9.0543057258	-1.1494342718	0.0956956368
C	-9.0418952913	-2.2539622163	0.6469407668
C	-8.8331247245	-2.3745323377	2.1371147757
H	-7.5818787236	-3.6325139446	-5.315694724
H	-6.4704879912	-1.6864550344	-4.639089068
H	-8.6443024023	-1.7346937973	-3.48464603
H	-7.2518887641	-3.5633765857	-1.4930335169
H	-7.9605232205	-6.3164311327	-3.9284056673
H	-5.5833310908	-6.6662340481	-3.3784344409
H	-5.5553923729	-5.1486182963	-2.4408505486
H	-6.1719286087	-5.469939612	-5.395199145
H	-5.5409898602	-1.8217165725	-2.3718401229
H	-7.9705570994	-0.9535623801	-1.2942027687
H	-7.7971583756	-7.4699471025	-1.9286564396
H	-9.1880120287	-6.3928275242	-1.8578365815
H	-10.0278514476	-2.590046953	-1.7464845495
H	-9.9395786722	-4.3433346186	-1.725149655
H	-4.4685934321	-3.643556087	-4.1535231985
H	-6.736031331	-5.8688123746	-0.5804392885
H	-8.9781618531	-4.2804862966	0.4056160512
H	-9.6091382465	-1.7959575041	2.6439755654
H	-8.8633860808	-3.4038949622	2.5007042958
H	-7.8721166291	-1.9251322089	2.398751881

calc_2c conf_11

C	-7.3462853727	-2.4343435998	-4.3594814932
C	-7.4024804158	-2.0180040318	-2.8709722304
C	-7.8955112802	-3.2593372861	-2.1281071238
N	-7.7958501732	-4.3708376324	-3.0790242792
C	-7.1164071221	-3.9535084303	-4.2967309089
C	-7.16508744	-5.6339500917	-2.6765003891
C	-5.6787840176	-5.4852466203	-3.0582209189
C	-5.6392613035	-4.4584248435	-4.2045310132
O	-6.3989669168	-1.6931090399	-5.0874281341
O	-6.0991307932	-1.6682348099	-2.4196977994
C	-7.3470237157	-6.0556718685	-1.2233376311
C	-9.3569138617	-3.1484806144	-1.6619743273
O	-4.6750972153	-3.4321402037	-3.98942322
O	-8.6925352504	-6.2302490854	-0.8613728251
N	-9.521743852	-2.3711926784	-0.4499666362
O	-9.0137864792	-4.087257822	0.9434890001
C	-9.3128017975	-2.9065153635	0.7743611117
C	-9.4767577953	-1.9739433521	1.951213155
H	-7.5794051846	-4.444533433	-5.1622046447
H	-8.3236904087	-2.2454142607	-4.8144225213
H	-8.067441041	-1.1564835616	-2.7207949975
H	-7.266626013	-3.3915362275	-1.2394662782
H	-7.6219346379	-6.4158897798	-3.298277999
H	-5.2109251572	-6.4359474566	-3.3261317863
H	-5.1103417443	-5.0753919233	-2.2134589234
H	-5.3412122357	-4.9159391118	-5.1501070019
H	-5.5511613778	-2.1709865425	-4.9762427842
H	-5.7861489218	-1.023033536	-3.077608809
H	-6.8475808401	-5.3382643582	-0.5583849456
H	-6.8097952989	-7.0076962045	-1.1043177589
H	-9.9750998056	-2.7061084141	-2.4486327058
H	-9.7256750712	-4.158367171	-1.4861983509
H	-4.9358510695	-2.9706110276	-3.166830942
H	-8.8918492436	-5.5714124822	-0.1712664765
H	-9.7100338046	-1.384524074	-0.5179820097
H	-10.2432202625	-2.3810080377	2.6146819885
H	-8.5403206536	-1.9490723081	2.5132882117
H	-9.7522624263	-0.9543327162	1.6720643978

calc_2c conf_12

C	-7.0776509013	-1.9221148945	-3.370140069
C	-6.2310269962	-2.1564019854	-2.0942504782
C	-6.7339404998	-3.4993269876	-1.5234130004
N	-7.7613128389	-3.9807151192	-2.4581892494
C	-7.5592814185	-3.3229858896	-3.7491976643
C	-7.7456196853	-5.4142524475	-2.7953926049
C	-6.616860367	-5.5638564282	-3.8332515121
C	-6.584524278	-4.2219095167	-4.5716142823
O	-6.3334154325	-1.2613439946	-4.3771802876
O	-4.8532743698	-2.1440222118	-2.3976491365
C	-7.6464085416	-6.3692563573	-1.6158219831
C	-7.2910299031	-3.3799987139	-0.0990553143
O	-5.2435184181	-3.7348692668	-4.6037140008
O	-8.796543042	-6.4407646936	-0.8261131672
N	-8.4075680638	-2.4678209705	0.007955745

O	-10.0451851437	-4.0429688413	-0.0866616873
C	-9.7032336564	-2.8693014313	-0.0141189194
C	-10.7325166624	-1.7648182637	0.0652159916
H	-8.516228231	-3.2850168449	-4.2831339015
H	-7.9550855706	-1.3159385421	-3.1161835392
H	-6.3646547586	-1.3345435159	-1.384694816
H	-5.857543347	-4.1641196928	-1.4677496261
H	-8.707543958	-5.6194900372	-3.2832573543
H	-6.7709224256	-6.4152787439	-4.5002543978
H	-5.6484715014	-5.7062013318	-3.3393392723
H	-6.9425147629	-4.3178354597	-5.6033933272
H	-5.5010056732	-1.010259691	-3.9348545783
H	-4.7118997012	-2.883774444	-3.0278723328
H	-6.7460199694	-6.1273659033	-1.0226696195
H	-7.4776133894	-7.3746917301	-2.01759703
H	-7.6340403449	-4.3533592524	0.2554725018
H	-6.4941943005	-3.0450685154	0.57384948
H	-5.3213258803	-2.8558235451	-5.0157810852
H	-9.1479702194	-5.5461316443	-0.6480605512
H	-8.2181653171	-1.4828686013	0.0939180741
H	-11.2497009709	-1.6996656736	-0.8958215528
H	-11.4756859412	-2.0332282328	0.8180314388
H	-10.313503519	-0.7846105847	0.3059831095

calc_2c conf_13

C	-6.8213471006	-2.3001204701	-3.5216872072
C	-7.3355465181	-2.1050751042	-2.0985022439
C	-7.2618389432	-3.5228050779	-1.519024773
N	-7.801583547	-4.3088480959	-2.6138351508
C	-7.4566008561	-3.6455248664	-3.8935308264
C	-7.5602405943	-5.7571971853	-2.7221119904
C	-7.4061922074	-5.9621261487	-4.2407482619
C	-6.6978058915	-4.6977330558	-4.7174530153
O	-5.4026889824	-2.3402755633	-3.5066374526
O	-6.5592615264	-1.1571886267	-1.4229988899
C	-6.3552283083	-6.2806073531	-1.9234935642
C	-8.0038961781	-3.6782230635	-0.1908889436
O	-5.3287538384	-4.8315413096	-4.4092685101
O	-6.2203630491	-7.6822676483	-2.063912302
N	-9.3366289685	-3.1130214279	-0.156457561
O	-8.6370403201	-1.0514916693	0.4719144332
C	-9.5544179341	-1.8265417993	0.1980623839
C	-10.9962646348	-1.3832627337	0.2655562162
H	-8.3822537524	-3.4252934543	-4.4471972421
H	-7.1488763443	-1.4978458319	-4.1936672891
H	-8.3886081525	-1.8009965834	-2.1551197283
H	-6.1993704834	-3.7332718612	-1.3116079828
H	-8.4360366278	-6.3151150438	-2.3637857932
H	-8.3919323277	-6.0417419579	-4.7112327932
H	-6.8453927565	-6.8633562197	-4.4989007144
H	-6.8366237174	-4.5228057875	-5.7944759067
H	-5.126587696	-1.758799255	-2.7785414877
H	-7.0563598104	-0.9361979583	-0.6108665331
H	-6.5097155939	-6.1049905066	-0.8540348179
H	-5.4450038478	-5.7581347249	-2.2297108859
H	-8.0777503735	-4.7345419353	0.081047344
H	-7.4253618599	-3.1768221075	0.5891482568
H	-4.998238425	-3.9473245449	-4.172469401

H	-5.7297736411	-7.8398444503	-2.8790089625
H	-10.1078468849	-3.6749946444	-0.4769374158
H	-11.708675652	-2.1541293106	-0.0367945238
H	-11.2180199979	-1.0799261187	1.291770186
H	-11.1268726575	-0.5030165047	-0.3675966504

calc_2c conf_14

C	-6.6714499758	-2.3052590389	-3.8683590479
C	-7.7402512583	-1.9973557647	-2.8128647986
C	-7.9338568264	-3.3475805702	-2.0961143133
N	-7.8901885198	-4.2707297504	-3.2139413166
C	-6.9909220715	-3.7518336139	-4.2627027269
C	-7.660616241	-5.7105025551	-3.0321886503
C	-6.6943618474	-6.0772054767	-4.176713244
C	-5.8788979474	-4.8050564168	-4.3869082956
O	-5.3874691548	-2.1548122731	-3.2835639125
O	-7.2758358805	-0.9453931037	-2.0180881872
C	-7.0976123213	-6.1355735248	-1.6696313567
C	-9.266523792	-3.4680785883	-1.3293733603
O	-4.9168752096	-4.7441381217	-3.3610634861
O	-7.0066440023	-7.5422748928	-1.5747309128
N	-9.1776912806	-3.1921512671	0.0934691472
O	-9.1853151921	-0.9370392089	-0.092607704
C	-9.1596891987	-1.947600729	0.6122378164
C	-9.1224833159	-1.8454333381	2.1177846154
H	-7.5252865068	-3.7334840648	-5.2245200315
H	-6.7467559634	-1.6286611353	-4.7276752465
H	-8.6806246465	-1.73825543	-3.3213346076
H	-7.1027669814	-3.4700931432	-1.3801329006
H	-8.6134106361	-6.2525197929	-3.1639323419
H	-7.2491992081	-6.3234874698	-5.0879533617
H	-6.0637564515	-6.928664274	-3.9132074312
H	-5.4059883124	-4.7707387459	-5.3797562863
H	-5.5138046058	-1.5064590615	-2.5666719923
H	-7.9439052863	-0.782503809	-1.3178790205
H	-7.7157610911	-5.7339729659	-0.8499028253
H	-6.0838295772	-5.7528236571	-1.5538989668
H	-10.0142427152	-2.7979816296	-1.7635468838
H	-9.6496014553	-4.4853673294	-1.4317943667
H	-4.7351198625	-3.7985658861	-3.2107162759
H	-7.8869798545	-7.9036374289	-1.7423803412
H	-9.1019104924	-3.9734675675	0.7245307175
H	-9.9789318212	-1.2523024449	2.4464391119
H	-9.1406935906	-2.8110570543	2.6280044547
H	-8.2207469061	-1.3029388757	2.4116883295

calc_2c conf_15

C	-6.2417042566	-2.6029405763	-3.717873018
C	-7.2770248313	-1.966808115	-2.7851662108
C	-7.8770602612	-3.1865108831	-2.0498287823
N	-7.8768629825	-4.225479672	-3.0663339565
C	-7.0142638679	-3.8289496121	-4.2020239523
C	-7.6330973657	-5.6270388403	-2.7313486038
C	-7.231495717	-6.1824964643	-4.1050263196
C	-6.2873611571	-5.1103776382	-4.6478104734
O	-5.1259896598	-2.8940648838	-2.9017063864
O	-6.732815243	-0.9985833139	-1.9230535502

C	-6.5380324601	-5.8372489317	-1.654069407
C	-9.2626120726	-2.9165753087	-1.4724004626
O	-4.9723406768	-5.2415610001	-4.1045459647
O	-5.7006660585	-6.9352708842	-2.0308644528
N	-9.1844866447	-1.89080851	-0.4561436429
O	-10.6451993801	-2.8865157796	0.9670688593
C	-9.8734877644	-1.9732242202	0.7119885951
C	-9.626915942	-0.8413933618	1.6890731011
H	-7.6466589375	-3.5024161552	-5.0423267192
H	-5.9552074178	-1.937037679	-4.5427201491
H	-8.056104831	-1.4685502539	-3.3732067764
H	-7.2033292573	-3.4117917054	-1.2082473488
H	-8.5603974327	-6.0982338702	-2.3894259496
H	-8.125576992	-6.229400353	-4.7333274922
H	-6.7808485318	-7.1751461202	-4.0694132643
H	-6.1880969935	-5.1462228883	-5.7365581879
H	-4.7240409094	-3.7048919763	-3.2768476019
H	-5.8755359458	-1.3652177658	-1.6493688356
H	-6.9957020834	-6.0367062758	-0.6784275599
H	-5.9308060154	-4.9289149509	-1.5721758438
H	-9.9438530894	-2.6277990567	-2.2842133195
H	-9.6823935399	-3.8083367092	-1.0002024863
H	-4.9880314997	-5.9738665674	-3.4554180854
H	-5.0946610871	-7.1117145264	-1.2994447643
H	-8.5018194198	-1.1576716071	-0.5932208196
H	-10.5718573949	-0.3236653257	1.8716217245
H	-9.3007960933	-1.2648832106	2.6419514121
H	-8.8858661869	-0.1146850075	1.3470366948

calc_2c conf_16

C	-7.4816816338	-2.1858258081	-3.4047906644
C	-6.7415461771	-2.3642794306	-2.0598187458
C	-7.1368905405	-3.7529164013	-1.5491830537
N	-7.9725481097	-4.363339653	-2.6198116772
C	-7.7360152321	-3.626262893	-3.8632296721
C	-7.6902059976	-5.7562541921	-2.9932822498
C	-6.4356266366	-5.6927408625	-3.8770019285
C	-6.5677385827	-4.3511843298	-4.6202362508
O	-6.7909501226	-1.36644266	-4.3130859283
O	-5.3308486772	-2.3400585027	-2.2720150956
C	-7.657284322	-6.7704261931	-1.86561311
C	-7.9297073762	-3.702901232	-0.2449593766
O	-5.3523811917	-3.6200651402	-4.686000782
O	-6.4941688791	-6.6089261418	-1.0786949886
N	-9.2040836759	-3.0527856507	-0.4308398097
O	-8.8622135222	-1.3846578133	1.0731727138
C	-9.5647157566	-1.917798766	0.2271151841
C	-10.9188708265	-1.3534325818	-0.1522498831
H	-8.6326080594	-3.6826175834	-4.4919878469
H	-8.4452258818	-1.7070652512	-3.2055785605
H	-7.0050507332	-1.5765039205	-1.3454717594
H	-6.2209374058	-4.3235394462	-1.3657410588
H	-8.5391606836	-6.0640232837	-3.6218910168
H	-6.3458900949	-6.5470828894	-4.553130068
H	-5.538273253	-5.6758870186	-3.2507698212
H	-6.8506010554	-4.5025807097	-5.6644341161
H	-6.1489140056	-1.9539084819	-4.7601941503
H	-5.1666793225	-1.5038185771	-2.7392843609

H	-7.6827752218	-7.7715172036	-2.3204789942
H	-8.569914184	-6.6562771381	-1.2627663938
H	-8.0742406264	-4.7224089051	0.1288224481
H	-7.3882196104	-3.1401638479	0.5181468204
H	-5.0880525226	-3.4080881983	-3.7651152543
H	-6.4951258866	-7.2897464313	-0.3955411793
H	-9.7663166291	-3.4022653908	-1.1921673415
H	-11.5511288919	-1.3334301473	0.7387302584
H	-10.7895414577	-0.3192613621	-0.4799369035
H	-11.4308672143	-1.9165159617	-0.9366853831

calc_2c conf_17

C	-6.6750942072	-2.3507917887	-3.8877847348
C	-7.7453035248	-1.9215536686	-2.8917137134
C	-8.0478919826	-3.2385504137	-2.1561917208
N	-8.0100242703	-4.2352567417	-3.2270042521
C	-7.1850724061	-3.7136974024	-4.3447360165
C	-7.5150602423	-5.5924368108	-2.9224151729
C	-6.040585224	-5.577537671	-3.3258239436
C	-6.0829381869	-4.7734803501	-4.6304491746
O	-5.451750899	-2.4746011502	-3.1765433466
O	-7.2243037358	-0.9038698236	-2.0838527953
C	-7.7852378912	-6.0843997116	-1.5052042708
C	-9.4057343386	-3.2279455076	-1.4139587298
O	-4.8645639178	-4.2561870778	-5.0846942011
O	-7.3869124049	-7.4274984032	-1.3380966462
N	-9.3064964415	-3.2441085403	0.0331496798
O	-8.6998109478	-1.0727696524	0.2149677389
C	-8.9699713701	-2.1499738331	0.7473186293
C	-8.9533403431	-2.3004836009	2.2489018826
H	-7.8076854543	-3.5676599519	-5.2361740177
H	-6.5582463149	-1.6467372961	-4.7201661665
H	-8.6451495194	-1.591407684	-3.433802802
H	-7.2467043322	-3.3706853195	-1.4122447409
H	-8.0424208085	-6.2911041656	-3.5878604659
H	-5.6081995248	-6.571497168	-3.4747883883
H	-5.4437769489	-5.0308007981	-2.5854309113
H	-6.4342177332	-5.4327892734	-5.4314350643
H	-5.4792217697	-1.7542409949	-2.5201114842
H	-7.7641164174	-0.850277924	-1.2653292279
H	-8.8603824551	-6.0739140009	-1.3013942631
H	-7.2952733012	-5.4334329256	-0.7659849933
H	-9.9837633682	-2.3428555361	-1.6987188245
H	-9.9847244553	-4.1000302434	-1.7197046202
H	-4.585615635	-3.6025366301	-4.4216851312
H	-6.430895739	-7.4639016887	-1.4678338124
H	-9.4836596418	-4.1067061897	0.5214516352
H	-7.9527509439	-2.0610368441	2.6163900772
H	-9.6403726843	-1.5683271079	2.6794037333
H	-9.232730619	-3.29791611	2.5955502564

calc_2c conf_18

C	-7.2459899791	-2.4653046733	-4.5053771967
C	-7.0338454379	-1.8665982356	-3.0973965848
C	-7.5270658067	-2.9608957192	-2.1249149478
N	-7.7871904212	-4.1659951757	-2.9550107395
C	-7.1668636251	-3.9744664815	-4.2735478612

C	-7.2417156673	-5.4610212373	-2.5299326272
C	-5.756882357	-5.4346471022	-2.9243397953
C	-5.7418167222	-4.6208769374	-4.2194262475
O	-6.303142231	-1.9648443089	-5.4371107054
O	-5.6922317845	-1.4703972195	-2.9208880588
C	-7.4950820235	-5.898114065	-1.0998541386
C	-8.7890444917	-2.4748014687	-1.4056236683
O	-4.6707448931	-3.6880971818	-4.1642665154
O	-8.864442149	-6.1350424857	-0.8128530636
N	-9.2580324976	-3.35001236	-0.3654721496
O	-9.1847077056	-1.7732407104	1.2740301202
C	-9.4145720434	-2.9198663875	0.9174458396
C	-9.9211468716	-3.9708433009	1.8839837174
H	-7.7521478796	-4.5196105606	-5.0239897354
H	-8.2563170034	-2.2240311111	-4.8553017645
H	-7.6136707657	-0.9481573728	-2.9747374885
H	-6.7398582076	-3.1267036233	-1.3766203368
H	-7.7346597221	-6.2081455562	-3.1758805568
H	-5.3221711636	-6.4310402389	-3.0355342247
H	-5.1674355618	-4.896263262	-2.1730907199
H	-5.5999248357	-5.2666000861	-5.094851228
H	-5.8305274349	-1.2661618867	-4.9471921691
H	-5.1382830548	-2.2667471776	-3.0674273332
H	-7.1702737542	-5.1380748458	-0.3857922967
H	-6.9035602987	-6.8039208755	-0.9076516706
H	-8.5862237183	-1.516112796	-0.9212283345
H	-9.5725753758	-2.3198453264	-2.1602074006
H	-4.8008711458	-3.1202858775	-4.9460498153
H	-9.2208878766	-6.7175358244	-1.4960225694
H	-9.4444785848	-4.3209626379	-0.593386582
H	-9.3317548939	-3.9131657485	2.8011667732
H	-10.9566711545	-3.7377173832	2.1485586567
H	-9.8771908607	-4.9858527589	1.4827934189

calc_2c conf_19

C	-7.4768563454	-2.2378111632	-3.702420941
C	-6.758046429	-2.1371007271	-2.3318543598
C	-6.9302804079	-3.5257290136	-1.6789707413
N	-7.7277974125	-4.3288212534	-2.6374637383
C	-7.5485806948	-3.7408225541	-3.9717780532
C	-7.3212994553	-5.7328717716	-2.8397426614
C	-6.076405498	-5.669207652	-3.7392414759
C	-6.2880556549	-4.4146646713	-4.596445939
O	-6.8005937357	-1.5030934345	-4.7055452632
O	-5.410574159	-1.7562950696	-2.5002380597
C	-7.1687811784	-6.5358007271	-1.5620202419
C	-7.6280525463	-3.4516925831	-0.3213165924
O	-5.1172740729	-3.6064895506	-4.5361396901
O	-8.3865302306	-6.6928975426	-0.8712362574
N	-9.0049365666	-3.0581574211	-0.5003504487
O	-9.1422137514	-1.840430324	1.4057384163
C	-9.6690700412	-2.2734483284	0.3940428499
C	-11.1138201025	-1.9782988849	0.0489003861
H	-8.4148575548	-3.9999212985	-4.5914515614
H	-8.4990299894	-1.8537538116	-3.6030984978
H	-7.2059576094	-1.3546428884	-1.7157513067
H	-5.9235928324	-3.9379154776	-1.5212217565
H	-8.1402304247	-6.1976458699	-3.4048385632

H	-5.9454519744	-6.5758412388	-4.3342865565
H	-5.1644125495	-5.5299064697	-3.1483642112
H	-6.4834568542	-4.6702469412	-5.6444902413
H	-6.1424490516	-0.9759155905	-4.2145145071
H	-4.9925983827	-2.4773992983	-3.015483036
H	-6.3919085515	-6.090286311	-0.9209068206
H	-6.8273380924	-7.5430248081	-1.8169595671
H	-7.5599435608	-4.4135119318	0.203280104
H	-7.1439483501	-2.710705759	0.3194033738
H	-5.3589688804	-2.804428197	-5.0344004754
H	-8.8094510838	-5.8251579207	-0.8318031362
H	-9.459435003	-3.4056493026	-1.3329924373
H	-11.4192572769	-2.3476083175	-0.9333746339
H	-11.755792446	-2.429341469	0.8100257749
H	-11.2707512494	-0.8984644268	0.0913108667

calc_2c conf_20

C	-7.1685462742	-2.4095061601	-4.1921687604
C	-7.8955671769	-2.2084557727	-2.8383358362
C	-7.8163167015	-3.5682450473	-2.1111406772
N	-7.8440868985	-4.5016607324	-3.2570164414
C	-6.9124088501	-3.9192107155	-4.2444831957
C	-7.3050858068	-5.8673317779	-3.1109477016
C	-5.7705146834	-5.7596529875	-3.1542074982
C	-5.489479193	-4.4165222926	-3.8460861038
O	-5.9860262034	-1.6317017502	-4.2711410045
O	-7.2990540637	-1.132043362	-2.1721355185
C	-7.8725846656	-6.6504211599	-1.9498617367
C	-8.9934433927	-3.7633989266	-1.1340329239
O	-4.8350024072	-3.5914301493	-2.9102890547
O	-9.2788487339	-6.7875361509	-2.0417189589
N	-8.6999763007	-3.3498082063	0.2277628962
O	-9.0221182782	-1.1308590843	-0.0924003304
C	-8.7593919396	-2.0738476835	0.6574056802
C	-8.4940820182	-1.847122573	2.1265306926
H	-7.1464130441	-4.3367216108	-5.2315715734
H	-7.8286913637	-2.1140181169	-5.0151137861
H	-8.9538957868	-1.9958579084	-3.0389474265
H	-6.8677142082	-3.603511226	-1.5574693223
H	-7.6307706127	-6.3900053157	-4.0226566506
H	-5.3276250421	-6.6113529462	-3.6765527985
H	-5.3318779992	-5.7143818712	-2.1529660332
H	-4.8733164326	-4.5386877035	-4.748713188
H	-6.1269886422	-0.9195131281	-3.6175970818
H	-7.8939366416	-0.8928257743	-1.4308859397
H	-7.5923757086	-6.1712727881	-0.9989370127
H	-7.4331961616	-7.6537076208	-1.9422856718
H	-9.858681963	-3.1884781987	-1.478378057
H	-9.3026103696	-4.8073137132	-1.0869469695
H	-4.8882979917	-2.695137487	-3.2916431218
H	-9.5756055129	-6.1292643351	-2.6865245044
H	-8.4547549383	-4.0644868244	0.8936180711
H	-9.3416636282	-1.3058922148	2.5527823653
H	-8.3344165979	-2.7660607022	2.6950955459
H	-7.6146337674	-1.2067559827	2.2299596278

calc_2c conf_21

C	-7.4359554683	-2.3492301146	-3.9937547643
C	-7.5283450146	-2.2213448754	-2.4589429596
C	-7.9740357897	-3.6207221156	-1.9902448623
N	-7.8990689278	-4.5221371866	-3.1716713622
C	-7.1099216272	-3.8297385158	-4.2028383132
C	-7.1438561983	-5.7758244428	-2.9678631738
C	-5.6742108077	-5.3584304213	-2.9347127566
C	-5.6054199229	-4.2429059326	-3.9990672525
O	-6.6041234125	-1.4445252797	-4.6473927341
O	-6.2644142589	-1.8863045957	-1.913164436
C	-7.6958920882	-6.604288299	-1.8264398035
C	-9.3944688835	-3.6597621438	-1.4267847523
O	-4.7241737785	-3.1894576871	-3.6648453838
O	-9.0620200719	-6.9000897621	-2.0489075987
N	-9.6529806448	-2.7520632924	-0.3111946644
O	-7.5558201903	-2.3352083989	0.5087526785
C	-8.7789655276	-2.2145471914	0.5707188375
C	-9.4048303629	-1.4076637918	1.6883625158
H	-7.4370429411	-4.1622500436	-5.1932934911
H	-8.4472846582	-2.1791376943	-4.3799431368
H	-8.252136397	-1.4466247426	-2.1809886208
H	-7.2832486863	-3.9361714239	-1.2055117582
H	-7.3113129312	-6.3637705117	-3.8823047475
H	-4.984255861	-6.1812841696	-3.1371674969
H	-5.4085861601	-4.9402909946	-1.9565900345
H	-5.2189085912	-4.6398806492	-4.9409202776
H	-5.6936729678	-1.7294338054	-4.447098983
H	-6.3969324045	-1.9280177646	-0.9465014176
H	-7.5623793533	-6.0843863533	-0.8661497064
H	-7.1497039752	-7.5506639208	-1.7579481058
H	-10.0889693027	-3.3941956933	-2.2315959561
H	-9.6289941615	-4.6860421003	-1.1213113159
H	-5.0458956128	-2.791745415	-2.8262829022
H	-9.3786499972	-6.2171991666	-2.6594578604
H	-10.6288217671	-2.597586848	-0.1128105642
H	-8.9756929663	-0.4033543041	1.6737806378
H	-10.493271991	-1.331187548	1.6358771975
H	-9.1267362986	-1.8645328041	2.6412093255

calc_2c conf_22

C	-7.5713198783	-2.2681069679	-3.4441407678
C	-6.8176896331	-2.271478091	-2.0895335447
C	-6.9648715512	-3.7097163833	-1.549899528
N	-7.7403022802	-4.4480215468	-2.5665908206
C	-7.6250438998	-3.7437116741	-3.8443428367
C	-7.3206627286	-5.8154437236	-2.8905437303
C	-6.1267410455	-5.6619447725	-3.8542615331
C	-6.3858279968	-4.335911614	-4.5805890446
O	-6.9330884004	-1.4347120746	-4.3963139984
O	-5.4745240598	-1.868987316	-2.269377268
C	-7.0393168443	-6.7201576754	-1.7110106326
C	-7.6800530568	-3.7622855862	-0.1970828573
O	-5.2224596238	-3.5204369311	-4.4887363836
O	-8.2343048915	-6.9020212706	-0.9790067869
N	-9.0582354179	-3.3571307688	-0.3188149551
O	-8.8670632786	-1.4274573351	0.8642755814
C	-9.5492867373	-2.2080020582	0.2148780714
C	-11.0233675712	-1.9590804365	-0.0319274697

H	-8.5120908403	-3.9613787858	-4.452237071
H	-8.5963989187	-1.914967998	-3.2854195899
H	-7.2449466685	-1.5445222242	-1.3958947863
H	-5.9470868199	-4.1085073437	-1.4164300699
H	-8.1589379634	-6.2681445754	-3.4371478807
H	-6.0253332302	-6.5097837981	-4.5360740643
H	-5.1838866834	-5.5671259342	-3.3039422719
H	-6.6189318932	-4.4950155091	-5.6403754599
H	-6.2655174198	-0.9488770174	-3.8757249669
H	-5.0679209781	-2.5398094434	-2.8555477505
H	-6.2415427033	-6.2935495577	-1.0847172795
H	-6.663663928	-7.6759466548	-2.1054058339
H	-7.6455694409	-4.7793053046	0.2031343914
H	-7.2014339756	-3.0853373791	0.5133649423
H	-5.5027271469	-2.6721154204	-4.8801423452
H	-8.0524135677	-7.516462946	-0.2575716859
H	-9.6265282145	-3.9214334596	-0.9312662528
H	-11.1458806933	-0.958414246	-0.452014508
H	-11.4906088163	-2.6896634969	-0.6969016952
H	-11.5454212031	-1.9730326799	0.9283326829

calc_2c conf_23

C	-7.36793157	-2.6465208664	-4.6215955006
C	-7.4414976165	-1.949584423	-3.2415598021
C	-7.7125917851	-3.0805837295	-2.2192132579
N	-7.7672490138	-4.3387826773	-3.0195209596
C	-7.0414388203	-4.0956326137	-4.2784597895
C	-7.0531600878	-5.5215014709	-2.5006958334
C	-5.5625574924	-5.2370138455	-2.7032878334
C	-5.5374778351	-4.4407873263	-4.0144429386
O	-6.4245153687	-2.0242090959	-5.4746263165
O	-6.2710362762	-1.2066583031	-2.988193705
C	-7.5189265115	-5.9505693827	-1.1303607737
C	-9.0072661049	-2.7688256991	-1.4527972404
O	-4.6993063722	-3.3048627371	-3.8513833678
O	-8.9231693113	-6.1846202725	-1.1472208582
N	-9.2279285101	-3.5057411042	-0.234967535
O	-9.1661820373	-1.6742960197	1.1155539616
C	-9.3083612402	-2.8791518015	0.9733748743
C	-9.596917368	-3.7925358899	2.14664322
H	-7.4194939815	-4.7858349283	-5.0412197811
H	-8.3555409852	-2.6176873014	-5.0962812025
H	-8.2480170386	-1.2124189301	-3.2303524218
H	-6.8827021215	-3.0828988071	-1.4989518194
H	-7.33002171	-6.3370373838	-3.1864240439
H	-4.9581614647	-6.1460995707	-2.7417247854
H	-5.16168564	-4.6042722146	-1.9044540902
H	-5.1505618586	-5.0476925681	-4.8420529083
H	-6.1867509474	-1.2004537002	-5.0083563435
H	-5.5369285105	-1.8548170364	-2.961945917
H	-7.2788618944	-5.187159835	-0.3793293467
H	-7.0189101942	-6.8793339697	-0.8383888805
H	-8.9779427938	-1.7197145909	-1.1468818954
H	-9.8527966915	-2.9018721387	-2.1415339637
H	-4.813905368	-2.8035246385	-4.6795650057
H	-9.2438050999	-5.8002144002	-1.979154025
H	-9.3899529867	-4.5056476061	-0.2943536376
H	-8.838405841	-3.6261646383	2.9147799445

H	-10.5615197324	-3.5143175258	2.5791713282
H	-9.6185218185	-4.8529609576	1.8837724508

calc_2c conf_24

C	-7.3845072046	-2.1450618701	-3.3301354947
C	-6.703964265	-2.4141708172	-1.9641964348
C	-7.1417849601	-3.8368028023	-1.5644736693
N	-7.9971360224	-4.3284915881	-2.6742409447
C	-7.6925809627	-3.5420585051	-3.8730121881
C	-7.8160386685	-5.7127879048	-3.124306792
C	-6.5615584265	-5.6925873154	-4.0182091418
C	-6.5488126156	-4.2866640846	-4.6292854861
O	-6.5628033711	-1.36277744	-4.1790710518
O	-5.3030441633	-2.2599068887	-2.0729675259
C	-7.8473332017	-6.7925576956	-2.0489671046
C	-7.9214110063	-3.8588609119	-0.2503157479
O	-5.2625319776	-3.7096109671	-4.4368181836
O	-6.7433427472	-6.8106604445	-1.1684544615
N	-9.1825529456	-3.1703042866	-0.3853063791
O	-8.7907011398	-1.594463339	1.2043834443
C	-9.5136436033	-2.0682314964	0.3406440075
C	-10.8650324555	-1.4638562481	0.0158001752
H	-8.5742170912	-3.5322050901	-4.5259793128
H	-8.3326977053	-1.6210917107	-3.1643339225
H	-7.0150742261	-1.6795772645	-1.2184607793
H	-6.2431492665	-4.4493357034	-1.4295223883
H	-8.682701259	-5.9265518726	-3.7679613538
H	-6.5616556199	-6.4873779384	-4.7686326075
H	-5.6501267646	-5.7971425077	-3.419248917
H	-6.7658697015	-4.3116262263	-5.7040613264
H	-5.8363588244	-1.0691301047	-3.5964348201
H	-5.0045542836	-2.9466961803	-2.7035024438
H	-7.9645031213	-7.7652022882	-2.548242386
H	-8.7304307972	-6.6458089206	-1.4218040676
H	-8.0827923983	-4.8936266664	0.0686385995
H	-7.3587945062	-3.3522977379	0.536539324
H	-5.3702128826	-2.7910014363	-4.7470893713
H	-5.978125947	-7.1463354089	-1.650657303
H	-9.7584533291	-3.4586953549	-1.1616058822
H	-11.3827450427	-1.953437217	-0.8130315889
H	-11.495599016	-1.5193147485	0.9066822558
H	-10.7301584809	-0.405691017	-0.21935873

calc_2c conf_25

C	-7.3054715723	-2.3213517297	-3.8385549614
C	-7.2120284058	-2.311596067	-2.2916792505
C	-7.5980931681	-3.7447594907	-1.8661960092
N	-7.8517738753	-4.5007443376	-3.1148193376
C	-7.1689429144	-3.7980786375	-4.2103757603
C	-7.2860597146	-5.8591842811	-3.202021231
C	-5.7853481413	-5.6645150605	-3.4486415671
C	-5.7199526885	-4.3841096038	-4.2914864026
O	-6.3258065296	-1.4830320501	-4.427598712
O	-5.9225604454	-1.9153403313	-1.8719403004
C	-7.6992358197	-6.7529877919	-2.0521456053
C	-8.8446772289	-3.7728139697	-0.9723712688
O	-4.7171009804	-3.5277256178	-3.758534355

O	-9.1013906268	-6.9169093831	-2.0145256302
N	-8.6568161027	-3.0919066507	0.2880620756
O	-9.7347702193	-1.1890853672	-0.3160014357
C	-9.1328696572	-1.8381077594	0.5272147738
C	-8.8557212551	-1.2891443629	1.9097535114
H	-7.6824504756	-4.0250487567	-5.1515048894
H	-8.300402865	-1.9787355722	-4.1435019203
H	-7.8969356181	-1.5764142146	-1.8665684211
H	-6.7473703092	-4.15060901	-1.2974540926
H	-7.7267428134	-6.3004168483	-4.1075511614
H	-5.3227748882	-6.524138768	-3.9391118219
H	-5.2451649566	-5.4888378678	-2.5116917434
H	-5.4717782086	-4.6065584056	-5.3364273341
H	-5.9539181767	-0.9860448355	-3.6749002805
H	-5.3005238988	-2.5751618932	-2.2439441103
H	-7.3220260231	-6.3500264194	-1.0991044112
H	-7.2529038191	-7.7444046694	-2.1783240341
H	-9.6660766851	-3.2711606779	-1.4888464479
H	-9.1472992707	-4.805684705	-0.7771306139
H	-4.8250625418	-2.6967494829	-4.2584654786
H	-9.4774423094	-6.1179863896	-2.4120175133
H	-8.148540319	-3.5630913776	1.0185449862
H	-8.1535139348	-0.4559024972	1.8220127
H	-9.7860359448	-0.8907877047	2.3191023011
H	-8.4434175969	-2.0248474122	2.6047457529

calc_2c conf_26

C	-7.201144057	-2.2422100028	-3.8116053501
C	-7.180345366	-2.3536517594	-2.2697143977
C	-7.7993626364	-3.7188743396	-1.9578992803
N	-7.9989668885	-4.3970428481	-3.2609090101
C	-7.2053028513	-3.7041048556	-4.2737260947
C	-7.5697212723	-5.7937127687	-3.3718299132
C	-6.0455434201	-5.7324517267	-3.5608390941
C	-5.8166035785	-4.4331899396	-4.3572175086
O	-6.1651421012	-1.4401882205	-4.321442973
O	-5.8283603237	-2.3361206221	-1.8008329353
C	-8.0803024855	-6.7515165053	-2.3017580127
C	-9.1414479529	-3.6183747308	-1.227257761
O	-4.7105577237	-3.679364039	-3.8869744631
O	-7.5612415601	-6.559628682	-0.9987394222
N	-9.0024259008	-3.1836867269	0.1439328852
O	-9.5814711949	-1.0196986301	-0.2215769542
C	-9.2316608458	-1.9050217477	0.5464254226
C	-9.026183122	-1.640844262	2.0234083227
H	-7.6970682596	-3.8010971501	-5.2488351087
H	-8.1454768224	-1.7792731623	-4.1122009529
H	-7.7308799031	-1.5361351337	-1.7950392868
H	-7.1047436952	-4.265850753	-1.310628947
H	-8.0093645199	-6.1643008694	-4.3104393313
H	-5.631980115	-6.615044655	-4.0566450514
H	-5.5380090583	-5.6303373796	-2.593646978
H	-5.5790672716	-4.649631309	-5.4012864645
H	-5.3898701734	-2.0298928304	-4.4009915414
H	-5.4603959177	-1.5092991115	-2.1551302273
H	-7.8894688279	-7.7781902868	-2.6458272152
H	-9.1635822602	-6.6392201434	-2.2119989231
H	-9.7970045373	-2.9072057507	-1.7337004903

H	-9.6311081604	-4.5952189117	-1.2398275996
H	-4.9218678523	-3.4046172581	-2.9675979725
H	-6.6312832584	-6.8174843829	-1.0096937485
H	-8.6626889604	-3.8546846294	0.8141800902
H	-9.9369783246	-1.1933795024	2.4273173765
H	-8.7790336245	-2.5328005884	2.6045840454
H	-8.2243451771	-0.9076537854	2.1409648665

calc_2c conf_27

C	-7.2008588926	-2.5030069594	-4.4603115548
C	-7.4070558746	-2.073860517	-2.9831367209
C	-7.827476514	-3.3621275892	-2.2474933869
N	-7.8889448576	-4.423055788	-3.2791413662
C	-7.0008813847	-4.01437498	-4.37468155
C	-7.336334076	-5.7368350046	-2.8937220572
C	-5.8122023073	-5.555854574	-2.8989040475
C	-5.5694477278	-4.524778127	-4.009282437
O	-6.128576156	-1.8018776043	-5.0629542399
O	-6.240422206	-1.4670677588	-2.4707102551
C	-7.9764604719	-6.3079320999	-1.6452472421
C	-9.1747668386	-3.2212670472	-1.5298283472
O	-4.7020492773	-3.5056088844	-3.521666832
O	-9.3588334791	-6.5341400658	-1.8578895288
N	-9.1280915978	-2.2640916326	-0.4458417354
O	-8.0225703457	-3.6648264599	0.9443399981
C	-8.5106192404	-2.5646844045	0.7297058796
C	-8.4547471327	-1.4470257521	1.7476666356
H	-7.3187419787	-4.5156709809	-5.2959263857
H	-8.1185190855	-2.3095430624	-5.0277732033
H	-8.1781480166	-1.3011068627	-2.9130411482
H	-7.0719743353	-3.5686084192	-1.4781228482
H	-7.6043004582	-6.4148763666	-3.7164643877
H	-5.2797947389	-6.4949223996	-3.0657784211
H	-5.4550189104	-5.1387706786	-1.9515690279
H	-5.105308885	-4.9849327017	-4.8899238202
H	-5.8979967928	-1.1136144656	-4.4102904501
H	-5.55370224	-2.1668154467	-2.4779374158
H	-7.8118412015	-5.6499166884	-0.7804239667
H	-7.5223688228	-7.2763072579	-1.4131122099
H	-9.9409552803	-2.9050659824	-2.244371423
H	-9.4815398236	-4.1847969984	-1.1170723057
H	-4.6689427722	-2.8565901565	-4.2474168286
H	-9.6488603293	-5.850478103	-2.4784195245
H	-9.4331899852	-1.3190915143	-0.6096094302
H	-8.6599150955	-1.8646545113	2.7344259233
H	-7.4416914647	-1.0348704488	1.7669885713
H	-9.1578514035	-0.6349517064	1.5459370901

calc_2c conf_28

C	-7.5915148903	-2.2067132225	-3.4149825542
C	-6.7852825103	-2.2475199764	-2.0971949388
C	-7.0690902395	-3.6235063734	-1.484979288
N	-7.8839386933	-4.3622661961	-2.4820828106
C	-7.7537357013	-3.6876604332	-3.7780962561
C	-7.4903990143	-5.7474099342	-2.7750917167
C	-6.2825418422	-5.6371966859	-3.7145512422
C	-6.5669597823	-4.371611561	-4.5434629629

O	-7.0018215686	-1.3937673194	-4.396320034
O	-5.3899321209	-2.1478484691	-2.3745416534
C	-7.291147552	-6.6290957842	-1.5574023984
C	-7.8279658786	-3.5314473222	-0.1602068858
O	-5.4221262862	-3.5506548006	-4.7276190434
O	-7.0441105689	-7.9321373297	-2.0434541025
N	-9.1403704687	-2.966502192	-0.3498708623
O	-8.8101498635	-1.1386724034	0.9568695652
C	-9.5289244959	-1.7887677087	0.212806846
C	-10.9328890943	-1.3390821405	-0.1337574007
H	-8.6697227618	-3.8486201131	-4.3579141411
H	-8.5796936441	-1.7892930812	-3.1993760611
H	-7.0710963004	-1.4352962251	-1.4199843907
H	-6.0972744219	-4.1015002266	-1.2979343221
H	-8.3245745658	-6.1901330281	-3.3361275715
H	-6.1352529812	-6.5310987447	-4.3221140794
H	-5.3622572138	-5.4842488675	-3.1371636736
H	-6.8863390916	-4.6244498989	-5.556764329
H	-6.3449477955	-1.9613607093	-4.8477979411
H	-5.3024551538	-1.333520497	-2.8980952422
H	-8.1961135126	-6.5953630345	-0.9325520419
H	-6.4476020291	-6.2675674736	-0.9502872485
H	-7.9148278704	-4.5274894675	0.2896530833
H	-7.2991569045	-2.8882308928	0.546334432
H	-5.1226107344	-3.2701210097	-3.837379719
H	-6.876728137	-8.507433224	-1.2879023579
H	-9.7207278607	-3.4209879055	-1.0383033048
H	-11.4389767307	-1.9829895694	-0.8573509359
H	-11.5255482403	-1.3064300292	0.7839322588
H	-10.8891934793	-0.3210061497	-0.5269346758

calc_2c conf_29

C	-7.1711550698	-2.3362184186	-4.3944905008
C	-6.8006562419	-1.8612083848	-2.9727408664
C	-7.3905680147	-2.9398968667	-2.040532805
N	-7.8044471361	-4.0659415269	-2.9116105386
C	-7.2559015735	-3.85856094	-4.2577108433
C	-7.3787331804	-5.4346979675	-2.5886591178
C	-5.9322452417	-5.5427336419	-3.0935436337
C	-5.9172128182	-4.6665120222	-4.3462448217
O	-6.237820566	-1.8828545157	-5.3601837931
O	-5.4093249799	-1.6631705218	-2.8602563276
C	-7.5644544171	-5.9096353724	-1.1642524298
C	-8.5864892032	-2.3587653649	-1.2825672868
O	-4.7403250918	-3.8678996548	-4.3332246212
O	-8.9490495416	-6.1321384996	-0.9308467215
N	-9.199778925	-3.2832874406	-0.3656614581
O	-9.1672033874	-1.8621335813	1.4116656297
C	-9.4502918357	-2.94848445	0.9279090426
C	-10.1126426384	-4.0305853554	1.7584811387
H	-7.9493875327	-4.2806872608	-4.9946768873
H	-8.16622081	-1.95928739	-4.6571289925
H	-7.2401143817	-0.8827763302	-2.7606783043
H	-6.6149550426	-3.2261932584	-1.317539646
H	-8.006929001	-6.0939786427	-3.2037238795
H	-5.620917828	-6.5726832152	-3.2850523984
H	-5.2328869085	-5.1131301716	-2.3663172149
H	-5.9173396104	-5.2747403963	-5.2589719214

H	-5.6496284274	-1.2849565212	-4.8628322637
H	-4.97591898	-2.5061993475	-3.1159723802
H	-7.1537295578	-5.186706674	-0.4470693904
H	-7.0055975389	-6.8480265465	-1.0505869231
H	-8.272094354	-1.4977003926	-0.687435318
H	-9.322785239	-2.0120389547	-2.0212848088
H	-4.8626847447	-3.2394094689	-5.0684537899
H	-9.0388314178	-6.5582745456	-0.0692765104
H	-9.4471265941	-4.207072393	-0.704694716
H	-9.4470752746	-4.3012943745	2.5825348419
H	-11.0230807852	-3.6213070019	2.2017979669
H	-10.3693961093	-4.926812589	1.1888324902

calc_2c conf_30

C	-7.3809918266	-2.0626296438	-3.4377893032
C	-6.5628873709	-2.1131313231	-2.1220634429
C	-6.8187727086	-3.520841033	-1.5362567103
N	-7.7709106746	-4.1673339757	-2.4551011196
C	-7.6476077319	-3.5310099205	-3.7672587235
C	-7.5687775561	-5.5851321373	-2.7482730618
C	-6.4247239581	-5.6370471639	-3.7842668602
C	-6.5381890807	-4.305691528	-4.5408587856
O	-6.684625261	-1.367357056	-4.4611167639
O	-5.1932918234	-1.8603082803	-2.3734616026
C	-7.3657704583	-6.4833135776	-1.5418758206
C	-7.322304903	-3.5171533419	-0.0695568137
O	-5.2741356265	-3.6516736043	-4.525272813
O	-8.4634163387	-6.4830943647	-0.6427332384
N	-8.7538161112	-3.5710927063	0.0834154073
O	-9.0906564943	-1.3892890084	-0.4464357626
C	-9.5390037381	-2.5053543014	-0.2110039051
C	-11.0289465545	-2.7764442775	-0.2106050544
H	-8.5914809601	-3.6579215936	-4.3126921315
H	-8.3347585006	-1.5640676802	-3.2412073629
H	-6.8938136298	-1.3335573092	-1.4375352597
H	-5.8366563809	-4.0214615216	-1.5317890937
H	-8.4896077581	-5.9237980443	-3.251591374
H	-6.4887173958	-6.5091271885	-4.4397468727
H	-5.4461359534	-5.6660628335	-3.2927551071
H	-6.841841131	-4.4597114749	-5.583763247
H	-5.95316832	-0.9256668888	-3.9897822927
H	-4.8871893717	-2.5965276179	-2.9399810473
H	-6.5000277489	-6.1626160019	-0.9574835641
H	-7.1525301058	-7.5025110818	-1.8937329357
H	-6.9202128924	-4.3793336657	0.4676617492
H	-6.9477105058	-2.6206060086	0.4306968622
H	-5.4661537645	-2.779223621	-4.9199516583
H	-9.2261037365	-6.8386168389	-1.1171659434
H	-9.1417015954	-4.5006776291	-0.0043476393
H	-11.5314052988	-1.9728025198	0.3305062703
H	-11.3928750177	-2.7550496637	-1.2419649218
H	-11.2960817162	-3.7357635731	0.2391399437

calc_2c conf_31

C	-7.4623705903	-2.0697959916	-3.3816244403
C	-6.617381178	-2.1942521192	-2.095276824
C	-6.8833055286	-3.6083230216	-1.5573032226

N	-7.8061685918	-4.2477798705	-2.5243310932
C	-7.6890918995	-3.5261719117	-3.7961776782
C	-7.5015095532	-5.6374202822	-2.9094767818
C	-6.2962511106	-5.5467685347	-3.8472530722
C	-6.5389473571	-4.2247812706	-4.6105799138
O	-6.8686819311	-1.242165661	-4.3521577918
O	-5.2256165451	-2.0939941635	-2.4122111543
C	-7.443256594	-6.5458754203	-1.6992617119
C	-7.3768492621	-3.6618907292	-0.0902730426
O	-5.3626631542	-3.4510659664	-4.7768580825
O	-8.6356125171	-6.3953261805	-0.9512367369
N	-8.8050405843	-3.5975541545	0.1273549031
O	-9.0549191796	-1.4325277698	-0.4805006075
C	-9.5409671959	-2.4734493983	-0.0594218779
C	-11.0114076884	-2.5853343681	0.2811772495
H	-8.6235245776	-3.6379162384	-4.3570014706
H	-8.4213622419	-1.6235378545	-3.1109513168
H	-6.8832190639	-1.4233014537	-1.3704675226
H	-5.8999221654	-4.1024585773	-1.5454815786
H	-8.3684768694	-5.9671798655	-3.5007054561
H	-6.2031805082	-6.4087505809	-4.5122565513
H	-5.3583287618	-5.4672021259	-3.2855268932
H	-6.8838330405	-4.4212972817	-5.6283020835
H	-6.2397590625	-1.8103111042	-4.8383246988
H	-5.1530707073	-1.2630718451	-2.9120851204
H	-6.5609655918	-6.3158013185	-1.0822848906
H	-7.3547505667	-7.591432234	-2.0117883855
H	-7.0513228634	-4.5997913119	0.3621416805
H	-6.8859704748	-2.8484149805	0.4550963862
H	-5.0568637077	-3.1807025321	-3.8835962159
H	-8.9952221064	-5.5386757464	-1.2396654376
H	-9.2439334364	-4.4127377932	0.5239430905
H	-11.5956052171	-2.3962813378	-0.6227313122
H	-11.3006003429	-3.555606958	0.6920710826
H	-11.2640482334	-1.8030520468	1.0003285728

calc_2c conf_32

C	-7.1541395484	-2.1317418374	-4.0763696303
C	-6.3604573686	-1.7811091159	-2.7733991931
C	-6.909816687	-2.7358227152	-1.7033645708
N	-7.1338897709	-3.9085193476	-2.5179300753
C	-7.6972048592	-3.5526248217	-3.8023245325
C	-7.5307168073	-5.2627113356	-2.207324096
C	-7.4938488846	-5.9131582312	-3.6262467498
C	-7.1853602651	-4.7552804612	-4.5981834772
O	-6.3337175672	-2.0028799143	-5.2178579909
O	-4.9984431894	-2.0747489339	-2.9805741545
C	-6.6085153611	-5.9550349914	-1.2244176892
C	-8.1403240766	-2.1588218122	-0.9973887453
O	-5.7821579679	-4.6108210463	-4.8040437276
O	-6.7990532604	-5.3869819323	0.0653268115
N	-8.6854881142	-3.113928993	-0.0616822483
O	-10.768759137	-2.2236970786	-0.0858226743
C	-9.9897816201	-3.0779077717	0.3124913069
C	-10.4143338374	-4.1714102591	1.2726496389
H	-8.802527378	-3.5483922025	-3.8080158804
H	-7.9844306913	-1.4336215085	-4.206705072
H	-6.4900163312	-0.7273331941	-2.4904128663

H	-6.1299374672	-2.9405847456	-0.9635842952
H	-8.5556495089	-5.3188041554	-1.8042891699
H	-8.4523585813	-6.3836758991	-3.8606071974
H	-6.7154321191	-6.6765562409	-3.7180736167
H	-7.6340403415	-4.8882931799	-5.58323868
H	-5.9523584804	-2.8896475321	-5.3822176849
H	-4.8329128519	-1.7816589626	-3.8944935298
H	-5.5696374292	-5.8318899938	-1.5597081232
H	-6.8437516172	-7.0284074515	-1.2069845202
H	-7.8559553759	-1.2275457496	-0.4872883164
H	-8.9310272423	-1.8940396783	-1.7075772898
H	-5.44618075	-4.3117109508	-3.9343676281
H	-6.1398085247	-5.7527683173	0.6668249835
H	-8.0829081806	-3.8634142766	0.2559483978
H	-9.6643427572	-4.9567817117	1.3959456949
H	-10.6245239641	-3.7262615363	2.2491282563
H	-11.3451920859	-4.6124121147	0.9101783358

calc_2c conf_33

C	-7.4618764893	-2.1573976316	-3.3468940611
C	-6.7068490579	-2.3092936793	-2.002853161
C	-7.0630026165	-3.724757727	-1.5021624839
N	-7.9203602384	-4.3299133482	-2.5470054856
C	-7.7065601589	-3.5985358308	-3.8004974616
C	-7.6572621947	-5.7263750109	-2.9156702235
C	-6.4376077381	-5.6778404867	-3.8559639214
C	-6.5489895635	-4.319438178	-4.5588436606
O	-6.7306367661	-1.3754666009	-4.2747041453
O	-5.3225864989	-2.0996046404	-2.1843589198
C	-7.5321147493	-6.7008195259	-1.7520227477
C	-7.8053334087	-3.6962656302	-0.1644380845
O	-5.2965438543	-3.6489377073	-4.4712820854
O	-7.4141899849	-8.0308822197	-2.2109572018
N	-9.0923224787	-3.0623654045	-0.3032856155
O	-8.6948019171	-1.3715301719	1.1599653294
C	-9.437616329	-1.9272871708	0.3651605047
C	-10.8276355621	-1.4025908667	0.0705993069
H	-8.6112163564	-3.6769142661	-4.4152014958
H	-8.4327745169	-1.6832010514	-3.1633295911
H	-7.0207711626	-1.5480396005	-1.2855141818
H	-6.1168289046	-4.2679400696	-1.3632965597
H	-8.5249161347	-6.0603187121	-3.5000509075
H	-6.4091656279	-6.515286777	-4.5569706198
H	-5.5000070432	-5.6841259857	-3.2861787023
H	-6.8118791914	-4.4331665385	-5.6172651662
H	-6.0007308498	-1.0001674656	-3.7471919296
H	-5.0229926303	-2.7880981278	-2.814243398
H	-8.4402957915	-6.669704534	-1.144653478
H	-6.68712389	-6.4313572321	-1.1013824925
H	-7.9311130701	-4.7144618236	0.2218590696
H	-7.2419386333	-3.1245014862	0.576159377
H	-5.4774332178	-2.7633840141	-4.8377484612
H	-6.537830697	-8.1316789214	-2.602327389
H	-9.6923526833	-3.4336745257	-1.0238731712
H	-10.757146648	-0.3429931888	-0.1837348348
H	-11.3407251484	-1.9341748173	-0.734803491
H	-11.4294681967	-1.4785090318	0.9799615407

calc_2c conf_34

C	-6.9800979585	-2.0270218101	-3.944401896
C	-6.2396115153	-1.7884313567	-2.5900160104
C	-6.9188754728	-2.7495068724	-1.599476938
N	-7.0145458077	-3.8905828596	-2.4916618782
C	-7.5683131966	-3.4452039842	-3.7576343269
C	-7.5015708954	-5.234414937	-2.2717689099
C	-7.4142461904	-5.8241959819	-3.70798076
C	-7.2031811268	-4.6264746998	-4.6609285118
O	-6.079429313	-1.8837456473	-5.0269819159
O	-4.8852154066	-2.1694705708	-2.7677737951
C	-6.6889208679	-6.0158271669	-1.263070739
C	-8.2229260338	-2.2075459862	-1.0141617298
O	-5.846301993	-4.5980072145	-5.0436615443
O	-6.9296252882	-5.4759918404	0.0319893724
N	-8.7915461927	-3.1642690745	-0.0929175203
O	-10.7823784544	-2.0979624967	0.0236602807
C	-10.0638112421	-3.0287105033	0.358802966
C	-10.5295284025	-4.1074777651	1.3157844031
H	-8.6723487794	-3.3752010245	-3.7178208726
H	-7.7867083472	-1.3021670893	-4.0857688757
H	-6.2344695385	-0.7435871905	-2.2749434405
H	-6.2260128105	-2.9691960209	-0.7812113724
H	-8.5531936108	-5.2392065989	-1.9378787629
H	-8.318744188	-6.3860334993	-3.9516584654
H	-6.558574669	-6.4963872164	-3.8197370195
H	-7.8565037836	-4.6881139288	-5.5411805297
H	-5.2052425966	-1.8112626499	-4.5939842456
H	-4.9322497754	-3.1396814802	-2.881256031
H	-5.6259989946	-5.9441792525	-1.5295217525
H	-6.9875908573	-7.072659298	-1.2991068223
H	-8.0205723525	-1.2554445383	-0.5042125783
H	-8.9614890307	-1.9871720753	-1.7924480413
H	-5.7266858784	-3.7219979764	-5.4524470349
H	-6.3599369877	-5.9245850951	0.6678735295
H	-8.2221990775	-3.9527286756	0.1910939401
H	-10.6737892361	-3.6663030619	2.3058265998
H	-11.5009256187	-4.4770405144	0.9807177772
H	-9.8326385099	-4.9452120463	1.3988634517

calc_2c conf_35

C	-7.3759240601	-2.0810828614	-3.4076500372
C	-6.5893505623	-2.1851707302	-2.0788653248
C	-6.8630108014	-3.6175928102	-1.5624825904
N	-7.7790486672	-4.2388599023	-2.5413913356
C	-7.6042579231	-3.5345489384	-3.8184454502
C	-7.5123654399	-5.6383875575	-2.9143628624
C	-6.2869914938	-5.5974708443	-3.8353936388
C	-6.4395103611	-4.2568640349	-4.5724404865
O	-6.6730842985	-1.318314842	-4.3771295605
O	-5.2144900407	-1.9227975057	-2.2809989783
C	-7.496274876	-6.5483498043	-1.7046483459
C	-7.363593603	-3.679138442	-0.0984280595
O	-5.2036331616	-3.5552164519	-4.5254282523
O	-8.6981415251	-6.3767764198	-0.9772083692
N	-8.7933564096	-3.6077658565	0.1141651024
O	-9.0492027633	-1.4398412136	-0.4898949867

C	-9.5295327444	-2.4827829337	-0.0677635117
C	-10.9977891803	-2.5953545736	0.2834811101
H	-8.5185428031	-3.6493986102	-4.412134999
H	-8.3448667352	-1.6143508514	-3.2071414777
H	-6.9396373759	-1.4370746557	-1.3701949905
H	-5.8811501695	-4.1158518935	-1.5483187444
H	-8.3797476056	-5.943628789	-3.5179613929
H	-6.2388059699	-6.4538912956	-4.5118602963
H	-5.3526955977	-5.5736452699	-3.2646874419
H	-6.7179059599	-4.4088653345	-5.622613526
H	-5.9618572191	-0.8859636969	-3.8688705826
H	-4.8951491785	-2.613343118	-2.8973596438
H	-6.619983808	-6.3378467633	-1.0724129276
H	-7.4238571802	-7.594951343	-2.0180610788
H	-7.0457242192	-4.6202084599	0.3531500351
H	-6.869146689	-2.8712496567	0.4524270604
H	-5.4219954222	-2.6773957539	-4.8936419444
H	-9.0328527558	-5.5089014506	-1.2610212141
H	-9.2331216269	-4.4203171561	0.5152560843
H	-11.5888876961	-2.3759055977	-0.6088257156
H	-11.2903771694	-3.5746454519	0.6698636482
H	-11.2381369076	-1.83224913	1.0272947254

calc_2c conf_36

C	-7.2108539764	-2.31735667	-4.3714986137
C	-6.719121814	-1.8840660861	-2.9715899347
C	-7.2685248328	-2.9563582546	-2.0054586046
N	-7.8943099172	-3.9960886462	-2.8554923028
C	-7.4209932338	-3.824221727	-4.2331736691
C	-7.6181405587	-5.4129819806	-2.5990123425
C	-6.2256988638	-5.6756811516	-3.2000087799
C	-6.1690482668	-4.7446079037	-4.4140439515
O	-6.2925667825	-1.9470788267	-5.3867635416
O	-5.314001351	-1.7477559057	-2.9565640671
C	-7.8509788646	-5.9401068229	-1.1936600362
C	-8.2585638769	-2.310276213	-1.0331696447
O	-4.9265697816	-4.0507929278	-4.4093576408
O	-6.9595936921	-5.4649032911	-0.1965125568
N	-8.690388908	-3.19210413	0.0214410084
O	-10.7671449995	-2.2935592273	0.2009898596
C	-9.92686524	-3.0962429241	0.5784496405
C	-10.1975974147	-4.0650146517	1.712853202
H	-8.1971108105	-4.180281382	-4.921614731
H	-8.1802510499	-1.8505222784	-4.5779206854
H	-7.0988399145	-0.891044498	-2.7180332818
H	-6.420022012	-3.3488231361	-1.4297394046
H	-8.3477819744	-5.9610357696	-3.2148175746
H	-6.0563376871	-6.7256363597	-3.4532279384
H	-5.4326980937	-5.3645239246	-2.5094495926
H	-6.2534418689	-5.3047495143	-5.3532181507
H	-5.6475719353	-1.3760382924	-4.9296345689
H	-4.9497658093	-2.6241195825	-3.2046172363
H	-7.8252794131	-7.037783246	-1.2314666504
H	-8.8468369045	-5.6392446457	-0.8663935755
H	-7.7787257969	-1.4177612944	-0.6053463492
H	-9.1516131118	-1.9782234154	-1.5684871216
H	-5.0178668793	-3.3966070191	-5.1271271862
H	-6.0791172847	-5.8186873865	-0.3717634559

H	-8.0094279551	-3.8367464132	0.3998771212
H	-11.1291330539	-4.596022755	1.5044608094
H	-9.3959548013	-4.7906273657	1.8729445786
H	-10.3492612694	-3.4963243813	2.6341469693

calc_2c conf_37

C	-7.2611510423	-2.4007147704	-4.256152297
C	-7.2781414032	-2.1372810516	-2.7276263942
C	-7.586022363	-3.5071014047	-2.0829893357
N	-7.8360563515	-4.4346717795	-3.2040631002
C	-7.0943489522	-3.9132146201	-4.3618246421
C	-7.2799577245	-5.7954519722	-3.0652668001
C	-5.7652493112	-5.646727364	-3.2809579678
C	-5.639962414	-4.4663251797	-4.2525707235
O	-6.2444018934	-1.6627292984	-4.9110267949
O	-6.0622599087	-1.5730203982	-2.28092456
C	-7.7221298923	-6.5078114528	-1.804018404
C	-8.7698305778	-3.4196928763	-1.1268059857
O	-4.7097459141	-3.522584272	-3.7257191301
O	-9.1177621299	-6.6981790972	-1.7775645105
N	-8.4467737092	-2.5029586781	-0.0536642003
O	-10.4498702057	-2.7541666634	0.9536968581
C	-9.3476715141	-2.2308146456	0.9287022025
C	-8.8926583798	-1.2466281344	1.9857874205
H	-7.5462826367	-4.3094663525	-5.2779156023
H	-8.2340844854	-2.1270660366	-4.679322161
H	-8.044215677	-1.4005134052	-2.4740535996
H	-6.695138248	-3.7962525255	-1.5013439237
H	-7.6970021342	-6.3651552354	-3.9066026164
H	-5.3074279851	-6.5626933039	-3.6610621205
H	-5.2499816295	-5.3843786213	-2.3505918158
H	-5.2872383093	-4.7899011225	-5.2387473496
H	-5.9672279003	-0.9912942551	-4.2620123076
H	-5.3815349581	-2.2561200873	-2.4575758179
H	-7.3713144973	-5.9607465481	-0.914373739
H	-7.262499079	-7.5001190597	-1.7680450568
H	-9.6541844511	-3.0678745051	-1.6724957194
H	-9.026564362	-4.3970512523	-0.7071729253
H	-4.7420319237	-2.7855525055	-4.3630372399
H	-9.5145709518	-5.9116767785	-2.17776821
H	-7.5565032427	-2.0291794015	-0.0717363717
H	-8.9192634718	-1.7414013013	2.9596674974
H	-7.8891551748	-0.8472680263	1.8185692181
H	-9.603785195	-0.4182160177	2.023608226

calc_2c conf_38

C	-7.2258213663	-2.3167433429	-4.3449165361
C	-7.4405085771	-1.9375880939	-2.8558954756
C	-7.9877650848	-3.2182464903	-2.1954582757
N	-8.0515404087	-4.2366585298	-3.2602985626
C	-7.1187755354	-3.8416364438	-4.3197316378
C	-7.598439464	-5.5884097782	-2.9032190109
C	-6.0615287267	-5.5190350397	-2.9035407971
C	-5.7312618808	-4.4607067057	-3.9610537919
O	-6.1014366004	-1.6540181168	-4.8934326343
O	-6.240627555	-1.4581024809	-2.2872563773
C	-8.2146701414	-6.158422364	-1.6398521507

C	-9.3757621471	-3.0242745429	-1.5754859129
O	-4.8097221243	-3.5196423096	-3.4109041199
O	-7.6829332168	-7.4622700145	-1.4883397063
N	-9.3604374629	-2.159654707	-0.4150964013
O	-8.6657774234	-3.7919605945	0.9916725321
C	-8.957182576	-2.6192628906	0.8003554859
C	-8.8909160241	-1.5877422503	1.9050904587
H	-7.4523751781	-4.2810448758	-5.2673402346
H	-8.1167428953	-2.0442454317	-4.9225208766
H	-8.1447495005	-1.1045683126	-2.7686209891
H	-7.2985030992	-3.4904031131	-1.3838087046
H	-7.9124165943	-6.2421897886	-3.728239654
H	-5.6016107291	-6.48846517	-3.0978024941
H	-5.6874353887	-5.1690429334	-1.9352669893
H	-5.2786122843	-4.9052223229	-4.8553421137
H	-5.8301658371	-1.02990395	-4.1936932871
H	-5.6083571811	-2.2078833754	-2.3318094509
H	-9.3089845343	-6.1885112094	-1.7536290058
H	-7.9869442593	-5.5302369059	-0.7691750238
H	-10.0587674484	-2.608574779	-2.3219769966
H	-9.7772742844	-3.9899341278	-1.2651365453
H	-4.7137598881	-2.8475147181	-4.1089635365
H	-7.9341624313	-7.7785635918	-0.6129116504
H	-9.4928549596	-1.1695094474	-0.5397634566
H	-9.3605847852	-0.6352197993	1.6475005883
H	-9.3733921826	-1.9971107298	2.7944356151
H	-7.842200224	-1.4054807231	2.1554277192

calc_2c conf_39

C	-6.5273232674	-2.382541197	-3.9497267023
C	-7.5761404072	-1.902439148	-2.9532343645
C	-7.8981900546	-3.1888726589	-2.1735782395
N	-7.9393241204	-4.2028635096	-3.2276192539
C	-7.0979960064	-3.7446845481	-4.3625767013
C	-7.5151851222	-5.5788080855	-2.9185506667
C	-6.034030086	-5.6292233053	-3.2974398796
C	-6.0554776041	-4.8608245318	-4.6126757917
O	-5.3280782715	-2.4539527304	-3.201459741
O	-7.1356185209	-0.8330588007	-2.1527850744
C	-7.8295178802	-6.067834899	-1.5168513428
C	-9.2131280932	-3.0769261386	-1.4052315357
O	-4.8158925386	-4.2910968216	-5.0280988401
O	-7.3539715802	-7.3986099169	-1.4467393527
N	-9.1170922139	-2.0646136373	-0.3777021918
O	-9.9504263502	-3.3709461145	1.2842635222
C	-9.4644634184	-2.3115752641	0.9126213798
C	-9.2270708917	-1.1658159271	1.8751124125
H	-7.7154824432	-3.6046478264	-5.2585390638
H	-6.4087277181	-1.7093852383	-4.8077524305
H	-8.4723991399	-1.5623204862	-3.4832281168
H	-7.0772481782	-3.3420737842	-1.4541715954
H	-8.0596647874	-6.249446276	-3.599593393
H	-5.649079345	-6.6480509542	-3.3833420319
H	-5.4380111431	-5.0787429523	-2.5606087383
H	-6.4222734512	-5.5191558181	-5.4115127705
H	-4.7014432243	-2.954860694	-3.7530799191
H	-6.2020992084	-1.0291563475	-1.9678482749
H	-8.9132782854	-6.0255548491	-1.3464091553

H	-7.3426989676	-5.4336184477	-0.7630508753
H	-10.0186223743	-2.8496592539	-2.1162936669
H	-9.4794601514	-4.0048583162	-0.8979231697
H	-4.1830085464	-5.0109363469	-5.1437818024
H	-7.5801291147	-7.7439832624	-0.5751355218
H	-8.6123953324	-1.2205681534	-0.6130018939
H	-8.726239764	-0.3058499075	1.4237282846
H	-10.1899573687	-0.8414126658	2.2780115435
H	-8.6308550293	-1.5300311859	2.7148049549

calc_2c conf_40

C	-7.349733894	-2.2651927463	-3.9184157945
C	-7.1616530817	-2.2221266465	-2.38540561
C	-7.7108963462	-3.5592188792	-1.8783430779
N	-8.0045112209	-4.3748685853	-3.0769021314
C	-7.3501037744	-3.7653938873	-4.2352207281
C	-7.5334092363	-5.7634488105	-3.0923202298
C	-6.04153011	-5.6742936778	-3.4519422121
C	-5.9553265133	-4.4653627834	-4.4035639354
O	-6.4026363815	-1.4888452232	-4.6080947237
O	-5.7710635305	-2.1355116523	-2.0669326608
C	-7.8550370269	-6.5763173434	-1.8456459187
C	-8.9963700942	-3.3974308404	-1.0574516773
O	-4.8304508832	-3.6381341509	-4.149115957
O	-7.4794264063	-7.9285856531	-1.9975509547
N	-8.7932251833	-2.7301184878	0.2086039977
O	-9.5626708037	-0.7054517434	-0.4681015374
C	-9.1093755458	-1.4206437427	0.4130733496
C	-8.8634161073	-0.901439954	1.813566354
H	-7.9438555503	-3.9725191179	-5.132813357
H	-8.3366639385	-1.8580362956	-4.1565145124
H	-7.6840074538	-1.3705520609	-1.9401293565
H	-6.9338344647	-4.0060227996	-1.2400895677
H	-8.0568391643	-6.2593458513	-3.9208564394
H	-5.6431943515	-6.5884610964	-3.8998925319
H	-5.4434069347	-5.4543791536	-2.5571852116
H	-5.8314569881	-4.7876554508	-5.4396761101
H	-5.6221516637	-2.0650970537	-4.7273740651
H	-5.4642689834	-1.3454159316	-2.5429316123
H	-8.935286975	-6.5811385759	-1.6795849839
H	-7.3814549816	-6.1351342745	-0.9552720967
H	-9.7182939604	-2.8064440438	-1.6241816716
H	-9.4415378403	-4.3809222817	-0.8798604354
H	-4.9348948331	-3.291563618	-3.2371794112
H	-6.5155205174	-7.9634897529	-2.0319330512
H	-8.396049321	-3.2545271423	0.9710439263
H	-9.8032434517	-0.5104733858	2.2101657331
H	-8.4706392477	-1.6515006701	2.5044968828
H	-8.1615632393	-0.0659366362	1.7595313193

calc_2c conf_41

C	-6.4019146377	-2.4279168373	-3.9246330969
C	-7.3707830018	-1.9169050618	-2.8652997495
C	-7.7887232369	-3.2118545855	-2.1445293394
N	-7.9292561399	-4.1673891197	-3.244970153
C	-7.1047203391	-3.7076676673	-4.3904361466
C	-7.5967372671	-5.5838582296	-3.0192538223

C	-6.1494641137	-5.7297930047	-3.492426236
C	-6.1723188641	-4.8852105182	-4.7592154767
O	-5.1907653503	-2.6506489284	-3.2273897778
O	-6.80834341	-0.9415228786	-2.0222268515
C	-7.8533554733	-6.126826541	-1.6179062628
C	-9.0809088297	-3.0289607947	-1.3526048661
O	-4.9114595165	-4.3898948621	-5.2032438631
O	-7.4844176522	-7.4897457175	-1.5366999248
N	-8.8933507661	-2.051337277	-0.3044737327
O	-10.145960889	-3.1570190027	1.2308925972
C	-9.4340044356	-2.2089140173	0.9314595435
C	-9.0964341989	-1.1198700297	1.9294327586
H	-7.7468681634	-3.4586769376	-5.2447214153
H	-6.2508493636	-1.7182111749	-4.7472562222
H	-8.2470377399	-1.4651664716	-3.3426924619
H	-6.9739698066	-3.4689061169	-1.4486932563
H	-8.2342109597	-6.1734338445	-3.7008236145
H	-5.8514102764	-6.7687188331	-3.653289895
H	-5.472863322	-5.2723211837	-2.7618861793
H	-6.6295053313	-5.4615289901	-5.5749378586
H	-4.6238869094	-3.1541368257	-3.8375880585
H	-5.8909561246	-1.2302176263	-1.8836254005
H	-8.9042107417	-5.983393384	-1.3374989624
H	-7.2386146981	-5.6086560596	-0.8782802765
H	-9.8776060158	-2.7289445387	-2.0473542778
H	-9.4086815393	-3.950135844	-0.8681844981
H	-4.3456862109	-5.1481192981	-5.3958605814
H	-8.1405360744	-7.9997856181	-2.0278578906
H	-8.2655001999	-1.2823143002	-0.4974060465
H	-10.0262556787	-0.6684099511	2.2837347535
H	-8.6078669867	-1.5755481942	2.7941389019
H	-8.4515657357	-0.3350397342	1.5266076397

calc_2c conf_42

C	-6.7431511087	-2.2700889027	-3.7552381991
C	-7.7155552337	-2.0052957416	-2.5810010318
C	-7.9674865523	-3.3918187916	-1.9699500791
N	-7.9162103803	-4.2747839699	-3.1223243525
C	-7.0947155601	-3.6950610579	-4.1983048678
C	-7.6508554361	-5.7143230621	-3.0022552688
C	-6.7802645073	-6.0230753348	-4.2357301275
C	-5.9926077929	-4.7358901413	-4.4611021582
O	-5.4164562237	-2.1351109155	-3.2861112249
O	-7.1218123182	-1.0776168936	-1.7025071575
C	-6.9683904191	-6.1689410093	-1.7050966335
C	-9.3453022351	-3.5387160398	-1.3039600827
O	-4.9426937812	-4.7105206721	-3.5253598838
O	-6.84048413	-7.5770386845	-1.6722361124
N	-9.7831959068	-2.4780936623	-0.4021826998
O	-7.8443836495	-2.1270672188	0.7174987965
C	-9.0530109868	-1.9218514708	0.5859056417
C	-9.7885821045	-0.9902820469	1.5200725997
H	-7.6949765518	-3.626893467	-5.1187926765
H	-6.9015144668	-1.553933753	-4.5707537994
H	-8.6579131482	-1.5986978794	-2.9725454009
H	-7.1768513285	-3.5889040137	-1.2336977615
H	-8.6020087116	-6.2695253073	-3.0716433699
H	-7.4073596305	-6.2378843023	-5.1074364467

H	-6.1241440264	-6.8777597844	-4.0600348689
H	-5.6109856089	-4.6545804597	-5.4900410377
H	-5.5044444627	-1.5548170548	-2.5024974875
H	-7.1926078042	-1.4268621672	-0.7895896455
H	-7.5228265217	-5.8120044227	-0.8234200162
H	-5.9561922687	-5.767516531	-1.6621110324
H	-10.0770586039	-3.5831934381	-2.1140673778
H	-9.3842465638	-4.4991282207	-0.7748533884
H	-4.7583801458	-3.7704593293	-3.3448034462
H	-7.7301844592	-7.951766971	-1.7060624621
H	-10.7675835152	-2.2643571107	-0.4203300967
H	-9.6375205328	-1.3392782114	2.5441365836
H	-9.3406928468	0.0036585188	1.4468862438
H	-10.8603503118	-0.9135204795	1.3235403283

calc_2c conf_43

C	-7.2202292355	-2.2259283371	-3.7564117622
C	-7.1241717724	-2.2907843261	-2.2116257614
C	-7.7234569472	-3.6644254383	-1.8422717694
N	-8.024357911	-4.3479025894	-3.1156167363
C	-7.268919727	-3.6929990511	-4.1881393013
C	-7.6433848472	-5.758102241	-3.2404766526
C	-6.1363628772	-5.7547123129	-3.5461371778
C	-5.9122903797	-4.4541594544	-4.3248533255
O	-6.1448564947	-1.4910218044	-4.31611144
O	-5.7874335374	-2.1126493135	-1.7901615231
C	-8.060602245	-6.653884458	-2.0828976358
C	-9.0094899875	-3.5396003848	-1.0163638738
O	-4.8019452259	-3.762043974	-3.7620524115
O	-7.670479328	-7.9938449303	-2.2984294848
N	-8.8002006738	-2.9440706271	0.2835485317
O	-9.6106525305	-0.8980678383	-0.2708323742
C	-9.1205970233	-1.6487282571	0.5599889927
C	-8.8230228281	-1.1910756147	1.9714997419
H	-7.818273961	-3.8116562121	-5.1300110107
H	-8.1650139649	-1.7498773741	-4.0410040953
H	-7.6872084298	-1.4765615094	-1.7523888116
H	-6.9651325532	-4.1936515106	-1.2439943747
H	-8.1723813321	-6.1287638578	-4.1337069704
H	-5.8086006555	-6.6465755374	-4.0823708346
H	-5.5564358261	-5.7037895991	-2.6176477788
H	-5.7014994457	-4.6473018958	-5.3837779442
H	-5.7005794632	-1.0940688626	-3.5438116466
H	-5.2687350322	-2.8316519373	-2.2102605112
H	-9.1449008343	-6.5711780087	-1.9194212788
H	-7.5597513493	-6.3524039624	-1.1586342302
H	-9.7202371162	-2.9054266647	-1.5494212855
H	-9.4716930924	-4.5238947383	-0.8930604236
H	-4.7986740976	-2.9037168349	-4.2249323947
H	-8.1671335402	-8.3250745174	-3.0573878506
H	-8.3539261578	-3.4934938568	0.999983865
H	-8.0501946944	-0.4190759939	1.9339940185
H	-9.7228474488	-0.7317105813	2.3856836831
H	-8.490327434	-1.9911255928	2.6375138381

calc_2c conf_44

C	-7.4105200644	-2.272158779	-4.2110713398
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C	-7.5969405271	-2.0264583443	-2.695966258
C	-8.0907706636	-3.3827112286	-2.1362154037
N	-8.0671470348	-4.3356180886	-3.2681934239
C	-7.1819574344	-3.7815253161	-4.297686964
C	-7.4644019342	-5.6446586406	-2.9761997879
C	-5.9472964955	-5.4015843126	-2.9541325901
C	-5.728895226	-4.2851553465	-3.9974408394
O	-6.4645376632	-1.4790375848	-4.8555795252
O	-6.364379664	-1.6581564095	-2.1066797396
C	-8.033966393	-6.3544080319	-1.7560527729
C	-9.4865514948	-3.3355815204	-1.490677766
O	-4.8137990479	-3.2877008435	-3.5812341153
O	-7.4185367001	-7.6062793214	-1.5388686826
N	-9.4584705175	-3.2636680087	-0.0357874051
O	-7.9888975202	-1.5431680376	0.1588233616
C	-8.7429941492	-2.3640325511	0.6766551365
C	-8.9158835697	-2.418935568	2.1777536957
H	-7.4879796506	-4.166207115	-5.2770613398
H	-8.3734750676	-2.0568468553	-4.6856959357
H	-8.3231941901	-1.2286107865	-2.5152497076
H	-7.3759747306	-3.6739515216	-1.3550959775
H	-7.6973611428	-6.275914308	-3.8491698632
H	-5.3667768836	-6.3037801981	-3.1555842808
H	-5.6308012385	-5.0365891881	-1.9697475877
H	-5.2920216522	-4.6887098505	-4.9139071787
H	-5.5982085476	-1.7867295623	-4.5327087395
H	-6.5906902375	-1.4841581473	-1.1747987338
H	-9.1248991613	-6.4573223161	-1.8659543322
H	-7.846051415	-5.7769716668	-0.8462246551
H	-10.0625151968	-2.4941683764	-1.8955977616
H	-10.0261027184	-4.246568391	-1.7528628353
H	-5.1853381953	-2.8287106287	-2.798214592
H	-7.6050198181	-8.161470015	-2.3067245718
H	-10.0797873253	-3.8732468579	0.4702516991
H	-7.934246757	-2.5499125338	2.6384342645
H	-9.3076621494	-1.4573231684	2.5181661195
H	-9.5799478229	-3.2149705801	2.5223004289

calc_2c conf_45

C	-7.1931761584	-2.2269001034	-3.7556701947
C	-7.1679707944	-2.3582491583	-2.2111812899
C	-7.7306803164	-3.7673233643	-1.9288030746
N	-7.9952667976	-4.3856124918	-3.2428884876
C	-7.2054041369	-3.6724720865	-4.2505222303
C	-7.6059194046	-5.7868862944	-3.4476198788
C	-6.0867614973	-5.7592896782	-3.6849481797
C	-5.8322369558	-4.4079341964	-4.3590426016
O	-6.0989610767	-1.46053802	-4.2309914694
O	-5.861950482	-2.1540915079	-1.7129635441
C	-8.0823731789	-6.8065979602	-2.4220672038
C	-9.0305839435	-3.711110212	-1.1169342448
O	-4.7685677245	-3.7396622297	-3.6866245086
O	-7.4226581314	-6.7619741093	-1.1698986785
N	-8.8611178253	-3.1304918733	0.1955020366
O	-9.8772099656	-1.1637372866	-0.3085370093
C	-9.2798905953	-1.8652369731	0.4929272216
C	-8.9391412849	-1.3809425682	1.885260701
H	-7.7108705962	-3.7580443449	-5.2201893116

H	-8.1279195023	-1.7452554459	-4.0626932035
H	-7.7811449338	-1.5834476837	-1.7480850929
H	-6.9663152774	-4.3127708485	-1.3562380466
H	-8.0962731693	-6.0847564479	-4.3869004408
H	-5.7373479287	-6.6075447094	-4.2789715427
H	-5.5561565493	-5.7830289352	-2.7284333844
H	-5.5569500733	-4.5259564179	-5.4140931579
H	-5.7039385063	-1.0824493656	-3.4232088071
H	-5.3061873056	-2.8544285838	-2.1168206907
H	-7.8785014001	-7.8007115194	-2.8317567515
H	-9.1707752154	-6.7239158126	-2.304861898
H	-9.7589991179	-3.092703461	-1.644217429
H	-9.4731045806	-4.7116253685	-1.0262527569
H	-4.7444842081	-2.8599228423	-4.1065842612
H	-7.9030694828	-6.1502695842	-0.602295916
H	-8.2872071438	-3.6106245973	0.8704861491
H	-9.8132011712	-0.8788983554	2.3030240855
H	-8.6216004323	-2.1768021414	2.5636684052
H	-8.1370831362	-0.6407934215	1.8144266875

calc_2c conf_46

C	-7.3818274985	-2.3993469581	-4.1475722005
C	-8.008644803	-2.2392941148	-2.7282103
C	-7.8901860901	-3.6190477458	-2.058401928
N	-7.8688735329	-4.5412094248	-3.2153101175
C	-7.0138625527	-3.8845707232	-4.2236810626
C	-7.2109738062	-5.8570693293	-3.0747955384
C	-5.6942384059	-5.6134285696	-3.1461890147
C	-5.5458226836	-4.2696834433	-3.8750551106
O	-6.2888824416	-1.5190779208	-4.3223037712
O	-7.3656513079	-1.1886664125	-2.043732473
C	-7.6874866931	-6.6718520648	-1.8940659724
C	-9.0917113979	-3.8969292233	-1.1457163627
O	-4.9235878419	-3.3693192532	-2.9863046403
O	-9.0815062204	-6.9028187211	-1.947189691
N	-9.4391306303	-2.811520206	-0.2339143789
O	-7.3569262727	-2.2744526516	0.4914486597
C	-8.5791418331	-2.1484787228	0.5700193306
C	-9.2008860107	-1.1916992793	1.5610383562
H	-7.2508413632	-4.3109542938	-5.2061745218
H	-8.1347757047	-2.1697605993	-4.9092710214
H	-9.0692761577	-1.978734371	-2.8318682704
H	-6.9590761039	-3.6514957976	-1.4821589646
H	-7.5111767626	-6.409524808	-3.9768873567
H	-5.1811883152	-6.4340583382	-3.6535864722
H	-5.2499466726	-5.5034905404	-2.1523360921
H	-4.9565619721	-4.3653985565	-4.7982261509
H	-6.3594078378	-0.9179564954	-3.5503288245
H	-7.0241980501	-1.5329413757	-1.1947126511
H	-7.4058125393	-6.1743309142	-0.9532806583
H	-7.1836473826	-7.6443132128	-1.9020935008
H	-9.962451129	-4.0432565333	-1.7918889784
H	-8.9507499753	-4.8183550252	-0.5750822155
H	-5.0107150636	-2.503291322	-3.4235545198
H	-9.4442613105	-6.2174580695	-2.5253618883
H	-10.4226658465	-2.6710338655	-0.0684632649
H	-8.8045910788	-1.4167333392	2.5534301705
H	-8.8870868809	-0.175966589	1.307477344

H -10.2922298312 -1.227481189 1.5943040525

calc_2c conf_47

C -7.3778266214 -2.315082544 -4.3241512547
C -6.8526490612 -1.8033148251 -2.967686116
C -7.4747382781 -2.7780064849 -1.9529317081
N -7.9037822746 -3.9736671457 -2.7150229008
C -7.4935680933 -3.8328011537 -4.1192709486
C -7.4263887382 -5.3073651758 -2.3238918251
C -6.0642009797 -5.4734705966 -3.0108670671
C -6.1990865417 -4.6919862724 -4.3175455922
O -6.5411136377 -1.9230702925 -5.399474154
O -5.4462729121 -1.7259424971 -2.9733691375
C -7.4084417461 -5.6188515942 -0.8313866033
C -8.6874717662 -2.108088749 -1.2895942336
O -5.0105773613 -3.9377373982 -4.5181691894
O -7.0798020751 -6.9752013293 -0.6092065962
N -9.5096801193 -3.0205002778 -0.5417539021
O -9.2249175097 -2.0095329152 1.4713174333
C -9.7218351363 -2.8992212863 0.7995748159
C -10.6153894036 -3.9582083675 1.4106532573
H -8.2724421865 -4.2516382786 -4.7674073705
H -8.3840295996 -1.916954372 -4.4993152116
H -7.1890737327 -0.7801847896 -2.7742720161
H -6.7304386564 -3.0164826246 -1.1862867615
H -8.1230949038 -6.0291895406 -2.7727869233
H -5.7834003474 -6.5174425051 -3.1692825848
H -5.2756853668 -4.9956018306 -2.4146931837
H -6.3377221497 -5.3631264488 -5.1736868019
H -5.8720395063 -1.3453339907 -4.9900304046
H -5.0959207418 -2.587006028 -3.2906768525
H -8.400530861 -5.4722966208 -0.4017556471
H -6.7196647859 -4.9527467856 -0.2938237774
H -8.3605222758 -1.3333784911 -0.5925241781
H -9.2961755156 -1.6299953394 -2.0693595587
H -5.2197099099 -3.3339059467 -5.2544573771
H -6.1367698973 -7.0834118111 -0.7819882874
H -9.9377999812 -3.7726589981 -1.0575580568
H -10.0255137789 -4.5563233818 2.110227491
H -11.3989345441 -3.4628171593 1.9877173786
H -11.0777890037 -4.625456152 0.6787358457

calc_2c conf_48

C -7.3863935362 -2.1642257645 -3.870037857
C -6.7210684161 -2.0132187761 -2.4748371724
C -6.8792720566 -3.3968078563 -1.7922026812
N -7.7335021338 -4.1762060717 -2.7178172224
C -7.4527901584 -3.6799500044 -4.0656915878
C -7.5176027897 -5.6260823492 -2.8380281043
C -6.3200780194 -5.7962303862 -3.8065244055
C -6.2090577574 -4.4514082037 -4.5579675276
O -6.7364294323 -1.4438156269 -4.8714741302
O -5.3764556866 -1.6071324911 -2.5952116369
C -7.3823027928 -6.374334919 -1.5228847338
C -7.4903602382 -3.3099727648 -0.3904003271
O -5.0127683055 -3.7544713782 -4.1992875062
O -8.5579601415 -6.3658043181 -0.7527823231

N	-8.9218763945	-3.1372104189	-0.4957255081
O	-9.1537215686	-2.1676663312	1.5359080087
C	-9.6518305247	-2.5277351439	0.4826212226
C	-11.1243072286	-2.3479691798	0.1792652549
H	-8.2784733918	-3.9638753931	-4.7293621894
H	-8.422869749	-1.811272003	-3.8027136451
H	-7.2108833691	-1.2273951264	-1.895965734
H	-5.8714589348	-3.8241242113	-1.6921180116
H	-8.4183368524	-6.0172651664	-3.3277468565
H	-6.4719864048	-6.6442218601	-4.47968731
H	-5.3893306129	-5.9767245277	-3.2563590754
H	-6.2320366448	-4.5683052776	-5.6461824517
H	-5.8920399625	-1.1691222518	-4.4730913693
H	-4.9177025708	-2.3523786549	-3.027754341
H	-6.5149873566	-5.9940633725	-0.9592017112
H	-7.1741753852	-7.4251896268	-1.7453787764
H	-7.2534602777	-4.2024872335	0.2015649213
H	-7.062081335	-2.463601763	0.1543861545
H	-4.2583171304	-4.2703255111	-4.5091784808
H	-8.8125503785	-5.4456755839	-0.5901267223
H	-9.3159416969	-3.3441036105	-1.4054163302
H	-11.7055944875	-2.9252786099	0.9026861679
H	-11.3849998646	-1.2965633791	0.31898105
H	-11.4089964136	-2.6577848536	-0.8292570516

calc_2c conf_49

C	-7.3673156967	-2.6343971485	-4.6602840259
C	-7.4616292636	-1.9287336433	-3.2857366002
C	-7.6978520316	-3.0657257954	-2.2522778574
N	-7.7884382189	-4.3127620054	-3.0691177145
C	-7.00409359	-4.07091609	-4.2882280195
C	-7.1775293886	-5.557141235	-2.5753571226
C	-5.6592691804	-5.400251924	-2.7580142666
C	-5.5293709644	-4.4315238365	-3.9547291204
O	-6.5174285436	-1.9894742573	-5.5574649061
O	-6.3170297006	-1.1507457561	-3.0265120104
C	-7.6718078504	-5.9877203969	-1.2160953009
C	-8.9568237108	-2.7382077505	-1.4359442343
O	-4.7755030083	-3.2704292179	-3.6034716558
O	-9.0880050122	-6.1239306753	-1.2317473418
N	-9.1595031666	-3.4745067377	-0.2134873228
O	-8.8416432937	-1.6851228782	1.1571969646
C	-9.1055209359	-2.868085948	1.0059961305
C	-9.4081422834	-3.7739773635	2.1821936543
H	-7.328693903	-4.7757497008	-5.0625872377
H	-8.3699369686	-2.6737472353	-5.1019510946
H	-8.2918156761	-1.2185548766	-3.2805001641
H	-6.8389434295	-3.0801251609	-1.5657033013
H	-7.5132837062	-6.3300464343	-3.282995234
H	-5.1636909717	-6.3608364344	-2.922759813
H	-5.2053054653	-4.9350822887	-1.875912592
H	-5.0549383107	-4.9013008808	-4.8226402562
H	-5.9774902664	-1.3961455716	-5.0073348764
H	-5.5749691128	-1.7807985152	-2.9567159744
H	-7.3753490851	-5.2609513382	-0.4488669455
H	-7.2379927447	-6.9567947932	-0.9493505927
H	-8.8882608768	-1.6910354033	-1.1299685111
H	-9.8295265233	-2.8469188984	-2.0936883725

H	-3.8786120782	-3.5492117869	-3.3807193079
H	-9.38713802	-5.6866744186	-2.0450970033
H	-9.4154740577	-4.4537694831	-0.2773287232
H	-8.6013071943	-3.681847204	2.9125543311
H	-10.3241347899	-3.4257431498	2.6668076113
H	-9.5302309803	-4.8250137664	1.9088388073

calc_2c conf_50

C	-7.1716362517	-2.4555349858	-4.4168736742
C	-8.1137412384	-2.1566649323	-3.2144089853
C	-7.9842425955	-3.3736560458	-2.2800327166
N	-7.8273955505	-4.4550830553	-3.269985115
C	-6.8366336804	-3.9486955369	-4.2311142467
C	-7.2594091892	-5.7547956228	-2.8781116404
C	-5.73442808	-5.5539797695	-2.7744949034
C	-5.4400140886	-4.3315496369	-3.6600067778
O	-6.0843815052	-1.5583941437	-4.4610242443
O	-7.8242413138	-0.9281608052	-2.6089868148
C	-7.9050056863	-6.3973844935	-1.6677430368
C	-9.2149447586	-3.4823232431	-1.3757646242
O	-4.9091652339	-3.2514304286	-2.8807930751
O	-9.2719818708	-6.6697426131	-1.8911678481
N	-9.2099449016	-2.4241561153	-0.3895652542
O	-8.2877625796	-3.7426333809	1.2176336851
C	-8.6423134715	-2.6374202194	0.8334994148
C	-8.4896259664	-1.4036167272	1.6968569675
H	-6.9422629773	-4.5019169837	-5.1716851617
H	-7.7091828428	-2.3080543764	-5.3554760636
H	-9.1487800535	-2.136818741	-3.5830634568
H	-7.0976131765	-3.2409958839	-1.6422867113
H	-7.4587244382	-6.4197053561	-3.7300215948
H	-5.1870504876	-6.4476413576	-3.085587917
H	-5.4419673154	-5.3216287719	-1.7447824029
H	-4.7434765529	-4.5565911247	-4.4758894291
H	-5.4035510552	-1.9150380662	-3.8572254514
H	-7.0326179541	-0.6045398339	-3.0801818445
H	-7.7534967882	-5.7753357821	-0.7734235449
H	-7.4191488113	-7.3595269932	-1.4767797012
H	-10.1243944214	-3.4090022909	-1.9844538258
H	-9.2553797841	-4.4169354	-0.819130664
H	-4.0283597353	-3.5001050303	-2.5729011855
H	-9.6200904884	-5.9348420382	-2.4140624373
H	-9.2165125737	-1.4762089353	-0.7399987303
H	-9.0739208526	-0.5511278627	1.3429121359
H	-8.7905360483	-1.6510906194	2.7161436272
H	-7.434065681	-1.117672797	1.7249772484

calc_2c conf_51

C	-7.2593902024	-2.3107148429	-4.3637692889
C	-7.5595736886	-1.920136164	-2.8922302695
C	-8.01634446495	-3.2367495931	-2.221470911
N	-8.0269875913	-4.2489582045	-3.2959075938
C	-7.0372828103	-3.8251399341	-4.285368844
C	-7.6083650773	-5.6120038274	-2.9568598496
C	-6.0611940472	-5.5820535876	-2.9268026897
C	-5.6686337972	-4.3858416717	-3.819298838
O	-6.2399385395	-1.5524673306	-4.9388690847

O	-6.4364795537	-1.3258441841	-2.2794463967
C	-8.252865175	-6.2217166344	-1.7181964555
C	-9.396345192	-3.1192039818	-1.5701070708
O	-4.9345381622	-3.4016543154	-3.0820822685
O	-7.8098737518	-7.5558938871	-1.5383540586
N	-9.3897556215	-2.2341713338	-0.4235642164
O	-8.4130382462	-3.7556359664	0.9396801414
C	-8.8312743579	-2.620204031	0.7552006554
C	-8.748119444	-1.5493308711	1.8208224995
H	-7.2616543496	-4.3072522448	-5.2443640089
H	-8.1686259578	-2.1639579665	-4.9576123862
H	-8.3398438683	-1.1545299195	-2.8530773911
H	-7.2958585145	-3.4728585149	-1.4250023175
H	-7.9097172088	-6.2418228138	-3.8039427108
H	-5.6290040147	-6.5278659549	-3.2625047676
H	-5.6976829657	-5.3893790863	-1.9090790847
H	-5.0657351423	-4.6841269495	-4.6834775966
H	-5.7505163654	-1.1800138436	-4.1859204124
H	-5.7574518334	-2.0272826988	-2.2443401936
H	-9.3355572161	-6.2760920204	-1.8626347842
H	-8.0672320556	-5.6140570789	-0.8229598325
H	-10.1207020091	-2.7483297414	-2.3005913071
H	-9.7412226465	-4.0978707094	-1.2336206563
H	-4.1312320741	-3.8190386954	-2.7471297019
H	-6.9693832392	-7.522491558	-1.0673872657
H	-9.5949418348	-1.2579808933	-0.5623640267
H	-9.4690987176	-0.7403023552	1.6783659451
H	-8.9100909713	-2.0118833512	2.7950004038
H	-7.7414491073	-1.1201432432	1.8172666342

calc_2c conf_52

C	-7.3218466809	-2.2075823081	-4.027475607
C	-6.9735601141	-1.9018473738	-2.5352375939
C	-6.9741003014	-3.2591042029	-1.8116866082
N	-7.8266696508	-4.1035528994	-2.6768233147
C	-7.5305297217	-3.7301145285	-4.0597906665
C	-7.660101483	-5.5602329688	-2.670457942
C	-6.4717974115	-5.8650591761	-3.6187825219
C	-6.3430037401	-4.6180188421	-4.5116137705
O	-6.3603387851	-1.6992566325	-4.9207323801
O	-5.7303171233	-1.2684286672	-2.4089057132
C	-7.5455054892	-6.2251081319	-1.3055521707
C	-7.5188285554	-3.1437597146	-0.3877104129
O	-5.1147407233	-3.9267523356	-4.2672094026
O	-7.5954033571	-7.632118163	-1.4300978528
N	-8.9451139437	-2.9334825592	-0.4208659209
O	-9.0636298166	-1.9649517318	1.6211571003
C	-9.6198399522	-2.3563218904	0.6065023512
C	-11.1165075565	-2.2215509195	0.4088327932
H	-8.3825072172	-4.0070196583	-4.6928037991
H	-8.2587269657	-1.7121986398	-4.2899453161
H	-7.7638359064	-1.2703882819	-2.1052279091
H	-5.9305211248	-3.6010116795	-1.7705656582
H	-8.567116907	-5.9735272516	-3.1306962059
H	-6.6356270712	-6.7806478943	-4.1930123647
H	-5.5388018527	-5.98113041	-3.0537401254
H	-6.4198171481	-4.8530924801	-5.5794327294
H	-5.6031109671	-2.3132894745	-4.864747976

H	-5.5652063342	-0.8671359216	-3.2794160098
H	-8.3951582072	-5.943962675	-0.6788623531
H	-6.62785059	-5.905828204	-0.7917182951
H	-7.2698501557	-4.0262328399	0.2130942679
H	-7.0471531485	-2.2908070528	0.10835275
H	-4.3863362045	-4.470449761	-4.5932645486
H	-6.7486998612	-7.9287310302	-1.7848712743
H	-9.4224683131	-3.2931149365	-1.235319571
H	-11.4746638326	-2.6142190663	-0.5462473897
H	-11.6272550484	-2.7429217679	1.2219154514
H	-11.3854587388	-1.1650479296	0.4819586898

Table S40. Sampled and DFT geometry optimized conformers related to calc_2d, with energy values (Hartree) and related % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations.

Conformer	MPW1PW91/6-31g(d,p)		MPW1PW91/6-311+g(d,p)		B97-2/cc-pVTZ	
	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution	Energy (Hartree)	% contribution on the Boltzmann distribution
calc_2d conf_1	-916.6602254	86.03%	-916.8959853	48.60%	-916.8428697	23.79%
calc_2d conf_2	-916.6579264	7.54%	-916.8953805	25.61%	-916.8432410	35.25%
calc_2d conf_3	-916.6567706	2.22%	-916.8949115	15.58%	-916.8424834	15.80%
calc_2d conf_4	-916.6567506	2.17%	-916.8935842	3.82%	-916.8421527	11.13%
calc_2d conf_5	-916.6563070	1.36%	-916.8938544	5.09%	-916.8420066	9.54%
calc_2d conf_6	-916.6551986	0.42%	-916.8892291	0.04%	-916.8386682	0.28%
calc_2d conf_7	-916.6539039	0.11%	-916.8919865	0.70%	-916.8405758	2.10%
calc_2d conf_8	-916.6529672	0.04%	-916.8897929	0.07%	-916.8385423	0.24%
calc_2d conf_9	-916.6528236	0.03%	-916.8896250	0.06%	-916.8385582	0.25%
calc_2d conf_10	-916.6522584	0.02%	-916.8861748	0.00%	-916.8354509	0.01%
calc_2d conf_11	-916.6522133	0.02%	-916.8876632	0.01%	-916.8369902	0.05%
calc_2d conf_12	-916.6521418	0.02%	-916.8896318	0.06%	-916.8385297	0.24%
calc_2d conf_13	-916.6520655	0.02%	-916.8860581	0.00%	-916.8354306	0.01%
calc_2d conf_14	-916.6514534	0.01%	-916.8909015	0.22%	-916.8396257	0.77%
calc_2d conf_15	-916.6510172	0.01%	-916.8873766	0.01%	-916.8361109	0.02%
calc_2d conf_16	-916.6509492	0.00%	-916.8897769	0.07%	-916.8384907	0.23%
calc_2d conf_17	-916.6505226	0.00%	-916.8869896	0.00%	-916.8357173	0.01%
calc_2d conf_18	-916.6504742	0.00%	-916.8892337	0.04%	-916.8381284	0.16%
calc_2d conf_19	-916.6494853	0.00%	-916.8866687	0.00%	-916.8355612	0.01%
calc_2d conf_20	-916.6492676	0.00%	-916.8875793	0.01%	-916.8364101	0.03%
calc_2d conf_21	-916.6491423	0.00%	-916.8830372	0.00%	-916.8330498	0.00%
calc_2d conf_22	-916.6488090	0.00%	-916.8882200	0.01%	-916.8370444	0.05%
calc_2d conf_23	-916.6486700	0.00%	-916.8842583	0.00%	-916.8340766	0.00%
calc_2d conf_24	-916.6482572	0.00%	-916.8852167	0.00%	-916.8344317	0.00%
calc_2d conf_25	-916.6480039	0.00%	-916.8832578	0.00%	-916.8323040	0.00%
calc_2d conf_26	-916.6474383	0.00%	-916.8837327	0.00%	-916.8334163	0.00%
calc_2d conf_27	-916.6473577	0.00%	-916.8855042	0.00%	-916.8348847	0.01%
calc_2d conf_28	-916.6468530	0.00%	-916.8860622	0.00%	-916.8350201	0.01%

calc_2d conf_29	-916.6468474	0.00%	-916.8846051	0.00%	-916.8337990	0.00%
calc_2d conf_30	-916.6465621	0.00%	-916.8853328	0.00%	-916.8343019	0.00%
calc_2d conf_31	-916.6464920	0.00%	-916.8859177	0.00%	-916.8352544	0.01%
calc_2d conf_32	-916.6461138	0.00%	-916.8845756	0.00%	-916.8332151	0.00%
calc_2d conf_33	-916.6458219	0.00%	-916.8842265	0.00%	-916.8334170	0.00%
calc_2d conf_34	-916.6457829	0.00%	-916.8852733	0.00%	-916.8346174	0.00%
calc_2d conf_35	-916.6454169	0.00%	-916.8854930	0.00%	-916.8350438	0.01%
calc_2d conf_36	-916.6444355	0.00%	-916.8845010	0.00%	-916.8338331	0.00%
calc_2d conf_37	-916.6438194	0.00%	-916.8820646	0.00%	-916.8314767	0.00%
calc_2d conf_38	-916.6437971	0.00%	-916.8827304	0.00%	-916.8319925	0.00%
calc_2d conf_39	-916.6435138	0.00%	-916.8823569	0.00%	-916.8321443	0.00%
calc_2d conf_40	-916.6433259	0.00%	-916.8847580	0.00%	-916.8338578	0.00%
calc_2d conf_41	-916.6428984	0.00%	-916.8838123	0.00%	-916.8334919	0.00%
calc_2d conf_42	-916.6426125	0.00%	-916.8795741	0.00%	-916.8299328	0.00%
calc_2d conf_43	-916.6425132	0.00%	-916.8798507	0.00%	-916.8302082	0.00%
calc_2d conf_44	-916.6420538	0.00%	-916.8792092	0.00%	-916.8282448	0.00%
calc_2d conf_45	-916.6412700	0.00%	-916.8800598	0.00%	-916.8291861	0.00%
calc_2d conf_46	-916.6390525	0.00%	-916.8774673	0.00%	-916.8267158	0.00%
calc_2d conf_47	-916.6385838	0.00%	-916.8775320	0.00%	-916.8267990	0.00%

Table S41. Cartesian coordinates of the optimized geometries for the conformers related to calc_2d. The related energies and % contribution on the final Boltzmann distribution for the three employed functional/basis set combinations are reported in Table S40.

calc_2d conf_1

C	-5.6312983065	-2.1941409735	0.1640601368
C	-6.7619517758	-1.2695529933	0.6331875336
C	-6.7760044328	-0.195787355	-0.4528002485
N	-5.3454024628	0.0985583804	-0.5334142966
C	-4.6629229912	-1.2199128964	-0.5403515664
C	-4.8799650274	0.8759594357	-1.6965388589
C	-3.8728947539	-0.0350052024	-2.4237719253
C	-4.29013101	-1.4449412867	-2.0188500836
O	-6.1547831214	-3.1819336565	-0.7134138549
O	-7.9519729961	-1.9895392527	0.773415285
C	-4.2832407027	2.2045869871	-1.1831078884
C	-7.6861661745	0.9942648803	-0.1805694176
O	-5.3908448933	-1.7912071424	-2.8245735802
O	-4.955161443	2.619032791	-0.0131301111
N	-7.5240966963	1.6370901066	1.1068271191
O	-8.8939029621	0.2069680879	2.2102375532
C	-8.190740216	1.2195294111	2.2044293299
C	-8.0411809477	2.0704028772	3.4426239248
H	-3.7308048229	-1.1500002323	0.0337275355
H	-5.1442002775	-2.7014070907	1.0044304951
H	-6.4600154738	-0.8019827845	1.5789977793
H	-7.1357574753	-0.6535185021	-1.3883333994
H	-5.7343477445	1.0860363779	-2.3498098631
H	-3.90018945	0.079618323	-3.5092325117
H	-2.851788203	0.1707380345	-2.0821326103
H	-3.4700128008	-2.1712206985	-2.1223507035
H	-7.0678032213	-3.3315604375	-0.4107199283
H	-8.5525746299	-1.4003633952	1.2735938175
H	-4.3778623279	2.9961644534	-1.9313344017
H	-3.2098579581	2.0707084934	-0.9751481673
H	-8.7191061251	0.6414126229	-0.2521689271
H	-7.5421945437	1.7564544287	-0.9498918133
H	-5.8349448756	-2.5226322154	-2.356734282
H	-5.0584939806	1.760983276	0.4512766685
H	-6.9611983864	2.4743013929	1.1357126453
H	-7.3397512842	2.8987089185	3.3219108945
H	-9.0218978503	2.4710481318	3.7114877364
H	-7.7125376555	1.4371387047	4.2694599846

calc_2d conf_2

C	-5.7843527184	-2.2654769481	0.1057620243
C	-6.8974402203	-1.3155122821	0.5507346533
C	-6.8085482602	-0.2092039355	-0.5003130981
N	-5.3771281828	0.0426019629	-0.466902641
C	-4.7218972104	-1.2865695214	-0.4339991491
C	-4.775160546	0.8385726483	-1.5380753308
C	-3.6560802139	-0.0482615362	-2.1230930751
C	-4.1503564509	-1.4643104319	-1.8519057904
O	-6.2814971643	-3.1499059043	-0.8915462784
O	-8.1269078608	-1.9793223476	0.6184226862
C	-4.2353921749	2.1578765027	-0.9980342411

C	-7.6880259844	0.996552408	-0.2132776722
O	-5.1361646242	-1.7400608249	-2.8177196944
O	-5.2391103902	3.015385925	-0.4682941058
N	-7.4663139038	1.6092890787	1.0741031554
O	-8.9431056952	0.2679178303	2.1525398795
C	-8.1169351973	1.1848000744	2.1762999499
C	-7.802180021	1.9140597959	3.4609143552
H	-3.8741030412	-1.2621972337	0.2644145734
H	-5.394215529	-2.8641790791	0.9366245624
H	-6.6160323466	-0.8883418874	1.5205387305
H	-7.1365031107	-0.6217510989	-1.47086748
H	-5.5209981118	1.0430499527	-2.3210482385
H	-3.4969569872	0.117933681	-3.1904939918
H	-2.7082504815	0.1302894685	-1.6002819986
H	-3.3382571352	-2.2064256131	-1.8770761793
H	-7.220965098	-3.2782747859	-0.6752028609
H	-8.7101627532	-1.3838487526	1.1296560554
H	-3.6581774219	2.6797008029	-1.7753131901
H	-3.5608784198	1.9454707202	-0.1646252726
H	-8.7328239923	0.6791643446	-0.2611362364
H	-7.5392381666	1.7598665902	-0.9808440032
H	-5.6892238796	-2.445835825	-2.4349550446
H	-5.7135224167	3.4056893864	-1.2127283929
H	-6.6877080106	2.2515588518	1.1317746189
H	-8.7191544491	2.3788281434	3.8318518925
H	-7.0343186084	2.682415792	3.3484856642
H	-7.4809132218	1.1884540481	4.2116111642

calc_2d conf_3

C	-5.8290489521	-2.0252499695	-0.0559874865
C	-6.93862182	-1.1686749759	0.539005382
C	-6.9391633649	0.0264634469	-0.4174228463
N	-5.5117545463	0.2946415651	-0.6051303451
C	-4.7661083903	-0.9710309728	-0.3638199159
C	-5.1458189459	0.8152224415	-1.9390926397
C	-4.5686425412	-0.3728050442	-2.7033706703
C	-3.8874619673	-1.2188210159	-1.617459235
O	-6.3026382609	-2.6297686009	-1.2522665948
O	-8.1465923119	-1.8718940577	0.5821712422
C	-4.1734050289	1.9851207661	-1.736789128
C	-7.7508409789	1.2360725822	0.0380530135
O	-3.6861831058	-2.5683801248	-1.9354972334
O	-4.6432176733	2.8043760478	-0.693436262
N	-7.5360626045	1.6515851273	1.4106060652
O	-9.0273322436	0.1826278367	2.27585804
C	-8.2458737536	1.1208267364	2.4327049379
C	-8.0435094323	1.7512900494	3.7896492166
H	-4.1340620733	-0.8671537312	0.5255439975
H	-5.465950695	-2.7932822936	0.6367552854
H	-6.6250735415	-0.8389992219	1.5387216954
H	-7.4003294287	-0.3211263927	-1.3558883747
H	-6.049494003	1.2123628047	-2.4143552297
H	-5.3755412374	-0.9620530434	-3.1502304703
H	-3.8765275811	-0.0833556417	-3.4998412244
H	-2.8871281863	-0.8195203842	-1.4241991901
H	-7.2019948101	-2.9386474278	-1.0564972491
H	-8.7428428253	-1.3261075832	1.1310939806
H	-4.1058575281	2.5912461503	-2.6448000459

H	-3.1617557295	1.6046104152	-1.5180393463
H	-8.8132329297	0.9992351401	-0.0703550344
H	-7.5269918119	2.0894526454	-0.6077363475
H	-4.5706359147	-2.9606689528	-2.0244701209
H	-4.9277641909	2.1334221764	-0.0411580798
H	-6.9256876116	2.43205762	1.5900133682
H	-7.2564951119	2.5084607105	3.8097390428
H	-8.9841331571	2.2102318955	4.1050984617
H	-7.8072257115	0.9672332766	4.511829341

calc_2d conf_4

C	-5.7682599365	-2.1544457518	-0.282312966
C	-6.4344751139	-1.3426213985	0.8247892922
C	-6.4173892825	0.0768554711	0.2284464386
N	-5.1120891606	0.1445337797	-0.4387815684
C	-4.6420756341	-1.2317749734	-0.733119338
C	-5.0862506444	0.935834635	-1.6862516822
C	-5.0777852105	-0.0855197957	-2.8208550319
C	-4.2898402654	-1.2708342032	-2.2435479799
O	-6.7154659654	-2.3400622227	-1.3249539957
O	-7.7042009883	-1.8786464324	1.0612819683
C	-3.8585397338	1.8521149889	-1.6586674687
C	-6.5627603555	1.2401754323	1.2233556789
O	-4.5104106536	-2.5066885939	-2.8653688181
O	-3.7666766312	2.5002863035	-0.4133389106
N	-7.9241346004	1.6942797281	1.4500318033
O	-8.5345897841	0.0039340232	2.8232432697
C	-8.79894792	1.0693358161	2.2631146785
C	-10.1310041383	1.7489944716	2.4707679316
H	-3.7555518274	-1.4623222099	-0.1307783582
H	-5.3991781843	-3.1247317733	0.0703799384
H	-5.8074302116	-1.3671757479	1.7288020711
H	-7.2423994802	0.134007586	-0.499093349
H	-5.976366489	1.5745353332	-1.709912082
H	-6.0973715724	-0.4182168761	-3.0368842067
H	-4.6370292657	0.2957370764	-3.7469702757
H	-3.2176836686	-1.0827288444	-2.3562595064
H	-7.5620110118	-2.4994563537	-0.8729773521
H	-8.1142814961	-1.3408038806	1.7709436898
H	-3.9410957494	2.6224427586	-2.4309199296
H	-2.9464083732	1.2707236917	-1.8707034541
H	-6.0073405628	2.0951053084	0.8306037912
H	-6.1166990983	0.9700956923	2.1862519927
H	-5.441942072	-2.7290885309	-2.7000723242
H	-3.9048417402	1.7692880294	0.2164837675
H	-8.2078495021	2.5585115898	1.0178779558
H	-10.2480210788	2.6776354025	1.9076206559
H	-10.9272371861	1.0563445121	2.1889018646
H	-10.2493654116	1.9623459588	3.5358718097

calc_2d conf_5

C	-5.577889399	-2.2199369409	-0.107679016
C	-6.2537967973	-1.2839267045	0.9052247635
C	-6.3776544508	0.0385203183	0.131999337
N	-5.0673746771	0.1084753613	-0.5106180255
C	-4.7257996643	-1.2674809646	-0.9603567721
C	-4.9221348771	1.0230347913	-1.6656433523

C	-4.3545611823	0.1441640758	-2.7918686409
C	-4.920876169	-1.232050305	-2.4856193411
O	-6.5704566654	-2.8972624193	-0.8649670024
O	-7.449398305	-1.8782959529	1.3186458037
C	-3.9801868405	2.1702750568	-1.287598067
C	-6.6441351191	1.2738086445	1.0021858652
O	-6.2768257481	-1.2087755839	-2.8665724379
O	-2.8436497523	1.6699724129	-0.6311580245
N	-8.050209188	1.5577707044	1.2330696017
O	-8.3325409232	0.0984030721	2.9388707309
C	-8.7864577651	0.9754144531	2.2009962469
C	-10.2081574249	1.4601585998	2.3495052502
H	-3.6620450265	-1.4530472905	-0.7667783985
H	-4.9562349568	-2.9688765058	0.3960711622
H	-5.5712006014	-1.120251976	1.7515724522
H	-7.1877590317	-0.0595190131	-0.6095579751
H	-5.9035863592	1.4166141331	-1.9612643363
H	-4.6564633662	0.4907932185	-3.7825813649
H	-3.2612974429	0.1348047401	-2.7339761746
H	-4.3716431553	-2.0441305587	-2.9843411734
H	-7.3375210041	-2.9587069168	-0.266808124
H	-7.8305825847	-1.3151051577	2.0251183785
H	-4.5074478678	2.9080040557	-0.6593327198
H	-3.6417504875	2.6965030432	-2.1859317316
H	-6.2246955954	2.1571246524	0.5162576021
H	-6.1488175411	1.1683809452	1.9718359807
H	-6.6927031488	-1.9422583838	-2.3768031604
H	-3.2193516067	1.0283039322	-0.0014321517
H	-8.4982376012	2.2321100681	0.6340510936
H	-10.4805843452	2.2571992439	1.6540275791
H	-10.8849587301	0.614374945	2.2069505087
H	-10.3470145985	1.8174142056	3.3725056339

calc_2d conf_6

C	-5.9770038731	-2.5419160341	-0.2758372687
C	-7.305603866	-1.7923890231	-0.5061141412
C	-7.024202007	-0.3637777711	-0.0577246032
N	-5.5881808041	-0.1506694469	-0.3113670478
C	-4.8962826892	-1.4486368194	-0.4748494044
C	-5.2251781385	0.7619297016	-1.4107431194
C	-3.9532863126	0.1321437876	-1.9795400911
C	-4.2147750462	-1.3666110688	-1.8529428168
O	-5.8448136676	-3.6789761399	-1.0912853738
O	-7.6035839766	-1.7746058088	-1.8993796246
C	-5.0472497835	2.1683938463	-0.8267987821
C	-7.3713468233	-0.1148601158	1.4111327822
O	-5.0316191765	-1.8553945358	-2.9102647974
O	-4.3428129635	2.0949569033	0.3949795105
N	-7.1177513122	1.2527634277	1.7903039615
O	-9.2474539618	1.6804103264	2.4581676019
C	-8.1022945782	2.0629835403	2.2750959071
C	-7.6671636653	3.4784461382	2.589415632
H	-4.1138402856	-1.5595603069	0.2849483504
H	-5.9484913029	-2.894449476	0.7599532746
H	-8.138019261	-2.2519822135	0.0394732639
H	-7.6105335981	0.3326620504	-0.6662328167
H	-6.0083158699	0.7924255302	-2.1828822145
H	-3.7583348499	0.4229034913	-3.0137947678

H	-3.0923631661	0.4202927334	-1.3658763943
H	-3.2996829452	-1.9608239756	-1.8921892904
H	-5.4830900115	-3.3608770832	-1.9421415985
H	-7.636758234	-2.7098342045	-2.1597479701
H	-6.0356416761	2.6258659531	-0.6732764545
H	-4.4895008514	2.8075672221	-1.5188792288
H	-6.8017206136	-0.8010719704	2.0526073392
H	-8.434686101	-0.2897206707	1.5916221661
H	-5.9392443531	-1.51275175	-2.7763055283
H	-4.4953600563	1.1681796506	0.673066004
H	-6.2002335478	1.6420438511	1.6204585702
H	-7.7496749162	3.6397958272	3.6675244509
H	-6.6457715415	3.7054403045	2.2744079485
H	-8.3581341734	4.1717041291	2.1050165714

calc_2d conf_7

C	-5.9184358948	-2.516593991	-0.259362422
C	-6.5093533434	-1.70602221	0.9019404998
C	-6.2814635091	-0.2501921616	0.4776319795
N	-4.9828100933	-0.2844274928	-0.1673603963
C	-4.7205003474	-1.6529397755	-0.6789305964
C	-4.6962891764	0.6796263511	-1.2288987595
C	-3.7071066138	-0.0842437109	-2.1124019189
C	-4.3505567209	-1.4687851397	-2.1628273857
O	-6.9099167284	-2.6376479976	-1.2624353766
O	-7.8612278838	-2.0418004801	1.0647355587
C	-4.1785206577	2.0231580428	-0.7359458979
C	-6.3591313105	0.7217035209	1.6756309873
O	-5.4452853267	-1.3685409363	-3.0397285445
O	-5.2093950009	2.8817075856	-0.2505847803
N	-7.3487500331	1.7626557267	1.521725749
O	-9.0852663737	0.3409131385	1.7950212405
C	-8.6634915193	1.4786884923	1.5673050762
C	-9.6158109552	2.6280605675	1.3453421587
H	-3.832756306	-2.0593351058	-0.1725942537
H	-5.5991287972	-3.5183934102	0.0526471425
H	-5.9340517055	-1.9109120392	1.8177651784
H	-7.0779287709	0.0187646245	-0.2392882259
H	-5.6010830527	0.8692525536	-1.8366454168
H	-3.6105593164	0.3464597188	-3.1114864875
H	-2.7173631874	-0.1241783715	-1.6416952781
H	-3.6513764141	-2.2500814542	-2.4946876992
H	-7.7537962218	-2.5388496909	-0.7778175763
H	-8.3412168143	-1.2466225728	1.3897303736
H	-3.6314238407	2.5265163235	-1.5458468538
H	-3.4877632352	1.8726038411	0.0965791715
H	-5.390579538	1.2000054292	1.8126118496
H	-6.5946577849	0.1727920564	2.5931906503
H	-6.171504637	-1.8968219681	-2.6620600367
H	-5.7644840955	3.0943965112	-1.0121475672
H	-7.0180357368	2.6509176482	1.1767744968
H	-9.1138949148	3.5863762329	1.1944657448
H	-10.2432132206	2.4079696451	0.4781097747
H	-10.2768709219	2.7058204988	2.2115378414

calc_2d conf_8

C	-6.2945318769	-2.4218033696	-1.0605008557
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C	-6.9074687226	-1.9226700604	0.2638478562
C	-6.380447981	-0.5018731704	0.3888591587
N	-5.0044710193	-0.5975239854	-0.0742145291
C	-4.9923846654	-1.5988883229	-1.1781995657
C	-4.4096016683	0.6545456055	-0.5812678236
C	-3.7769884728	0.2698282019	-1.9265758726
C	-4.7429141036	-0.7779038137	-2.4570483553
O	-7.2173667026	-2.1853876372	-2.1098302484
O	-8.3147005386	-1.9769457858	0.2114588441
C	-3.3921747718	1.2799205742	0.3584355702
C	-6.5666072614	0.0325668053	1.8156441515
O	-5.8789406944	-0.0781723674	-2.9018789066
O	-3.9496832773	1.7485031629	1.5821148922
N	-7.0667513209	1.3864510536	1.8522090293
O	-9.0991800623	0.6734758125	1.172456509
C	-8.3413234521	1.6043047869	1.4570505403
C	-8.799128372	3.0393858188	1.392719789
H	-4.1341666255	-2.2697171259	-1.0412717153
H	-6.0746460436	-3.4949483906	-1.0298893099
H	-6.5328753706	-2.5356393533	1.095243859
H	-6.9779280533	0.1255905946	-0.2943850612
H	-5.2050667724	1.3910222369	-0.763525382
H	-3.6931328944	1.1180045641	-2.6093002345
H	-2.7792643738	-0.1620306267	-1.7793541836
H	-4.3068251147	-1.396914771	-3.2553143767
H	-8.0772088933	-2.1087613401	-1.6461582538
H	-8.6701693495	-1.1249603948	0.5435101566
H	-2.9517171057	2.1541413855	-0.1327897232
H	-2.583049597	0.5649455556	0.5546079758
H	-5.6250891961	-0.019194361	2.3595500134
H	-7.2887562986	-0.5907316833	2.3510864842
H	-6.6042618266	-0.731299996	-2.8947536894
H	-3.8722557451	1.0285558004	2.2176199526
H	-6.390585761	2.1366844163	1.8738308664
H	-9.0314099226	3.2915737377	0.3546992529
H	-9.7230100263	3.1388643716	1.9663276418
H	-8.0599160667	3.7460020713	1.7759855434

calc_2d conf_9

C	-6.2712963749	-2.3002254859	-1.090847792
C	-7.1496761756	-1.9365934586	0.1091257919
C	-6.6978008432	-0.5132287744	0.4331526607
N	-5.2750723995	-0.462663225	0.0914978998
C	-4.9378057899	-1.6590405373	-0.7100214582
C	-4.8328010131	0.7573166581	-0.6188078767
C	-4.4532400674	0.3159054571	-2.0306276561
C	-4.0681325241	-1.1650816161	-1.8895939913
O	-6.8081412075	-1.6785293838	-2.2443930827
O	-8.5160337996	-2.0012491715	-0.2485178363
C	-3.6930699641	1.3961527453	0.1781071066
C	-7.0063445699	-0.0942684685	1.8716650999
O	-4.196548031	-1.9275054604	-3.0589272139
O	-4.0342650567	1.4415127038	1.5487840273
N	-7.1509747146	1.3365597093	2.0138753326
O	-9.2352064519	1.234287887	1.1437200305
C	-8.2963552214	1.9094412168	1.558039405
C	-8.3583019074	3.4172476428	1.6153492006
H	-4.3810227188	-2.3803826605	-0.0992122969

H	-6.1826598918	-3.3824585916	-1.2451034007
H	-6.9431402181	-2.619052822	0.946026584
H	-7.2696744129	0.1478134915	-0.2338147017
H	-5.6650363359	1.4699394836	-0.6305989644
H	-5.3232499044	0.3832559304	-2.688886068
H	-3.6467671069	0.9123640676	-2.4680819608
H	-3.0141693527	-1.2462484531	-1.6065351514
H	-7.7739746825	-1.7335861977	-2.1322560032
H	-8.9695805875	-1.2319296432	0.1306186164
H	-3.5153546007	2.42285291	-0.1528894917
H	-2.7597224868	0.8306849993	0.0297399796
H	-6.2186369672	-0.4481408329	2.5422464789
H	-7.948536303	-0.5447595394	2.1961590325
H	-5.1373119361	-1.8945650397	-3.2987768593
H	-4.3051711656	0.5206460328	1.7196008552
H	-6.3045134069	1.8835293461	2.1083868231
H	-9.2018736755	3.7086582937	2.2457431246
H	-7.4476556537	3.8753374572	2.007568256
H	-8.554882481	3.8040033287	0.6124855003

calc_2d conf_10

C	-6.0318715848	-2.5578783302	-0.2608322411
C	-7.3589589265	-1.817863771	-0.5340352615
C	-7.1205032273	-0.4272230275	0.0579031048
N	-5.6867917292	-0.1651762392	-0.1055892084
C	-4.9583119155	-1.4403923966	-0.3122295381
C	-5.3004095886	0.8061954218	-1.1488355456
C	-3.9752362027	0.2503063998	-1.6652478451
C	-4.1856179344	-1.2528905841	-1.6285639935
O	-5.8303991338	-3.613414479	-1.1881642488
O	-7.6277068212	-1.828353798	-1.9210379298
C	-5.194100448	2.1963312317	-0.519482282
C	-7.5540037325	-0.3654073774	1.5324739465
O	-4.9625816696	-1.6102716383	-2.7665013942
O	-4.4558346522	2.1237204819	0.6789510301
N	-7.1925050461	0.8672782029	2.1898589491
O	-8.7821681179	2.0901341718	1.1467817205
C	-7.8228179557	2.0439478961	1.9016561691
C	-7.2301887245	3.2595738106	2.5793190753
H	-4.2286027917	-1.5910667994	0.4931494242
H	-6.0470955762	-2.990947569	0.7457773775
H	-8.2100760762	-2.3245582105	-0.0695965236
H	-7.7030239466	0.3219190714	-0.4847091086
H	-6.0389064057	0.8364498376	-1.9629271329
H	-3.7292698085	0.5987100603	-2.6704692726
H	-3.1692090417	0.5368138936	-0.9820648203
H	-3.2464278521	-1.8176897271	-1.6322771578
H	-6.6382414387	-3.6095253589	-1.7340320986
H	-6.8408761661	-1.4585411509	-2.37367048
H	-6.2041495303	2.5945006974	-0.3416010985
H	-4.680986636	2.8856737795	-1.1972142895
H	-7.1076033166	-1.1873537795	2.1014144649
H	-8.6411479655	-0.4772036083	1.5805581097
H	-5.0882237562	-2.5704969821	-2.6679338478
H	-4.7362641904	1.2573867995	1.0335190317
H	-6.3400172586	0.8982990681	2.7242410495
H	-7.199315195	3.133198364	3.6659683513
H	-6.2054414748	3.4162191251	2.2258974088

H -7.8381141627 4.1295965141 2.3355461053

calc_2d conf_11

C -5.7683826807 -1.657155312 0.5094066485
C -7.1060694313 -0.9870048314 0.1410577704
C -6.7013337097 0.4558461776 -0.1751138848
N -5.349087722 0.3769300729 -0.7358370836
C -4.7170644233 -0.9074792356 -0.3481158778
C -5.1986967603 0.5972911926 -2.1857171723
C -4.0597106008 -0.3470220802 -2.5659455547
C -4.2864752159 -1.5555097809 -1.6750457594
O -5.8046276156 -3.060384036 0.2756648956
O -7.7026946196 -1.6573547461 -0.9517397714
C -4.8871770792 2.0739940843 -2.4324601407
C -6.6847950371 1.3732730182 1.0576716599
O -5.3253690328 -2.336959051 -2.255562904
O -3.8400102678 2.5010251103 -1.6005780356
N -7.9766418951 1.5647671079 1.6763761744
O -7.6653709388 -0.0049439955 3.2794844407
C -8.3627877714 0.86663332 2.7802828844
C -9.7127058131 1.2380012364 3.3537042874
H -3.8172893573 -0.7160065781 0.2487961339
H -5.5631036313 -1.490663329 1.571565409
H -7.8208402373 -1.0512166779 0.9621894739
H -7.3930698975 0.8691476939 -0.9183833722
H -6.1143137084 0.3237698775 -2.7310904118
H -4.0666480066 -0.6188552543 -3.6235627846
H -3.1032129706 0.1274432159 -2.3257128939
H -3.3878792782 -2.1708976411 -1.552553266
H -6.7334233238 -3.2501760134 0.0566155423
H -7.0262011569 -1.7239959666 -1.6580479236
H -5.7999717925 2.6708100534 -2.2660725624
H -4.580852824 2.2320500263 -3.4712742254
H -6.2807045988 2.3450881262 0.7577738779
H -6.0233219831 0.9602717171 1.822748691
H -5.4572350289 -3.0538414801 -1.6078347122
H -4.0376324425 2.0628411938 -0.7525248635
H -8.5960254757 2.2633105811 1.299241285
H -9.5721873426 1.5857622509 4.3800194535
H -10.2392405263 2.0098841232 2.7870438196
H -10.3348458036 0.3413258297 3.3975307526

calc_2d conf_12

C -5.7990352927 -2.0470213663 -0.2931833045
C -6.51906256 -1.2639294865 0.7981493045
C -6.51169215 0.1683547679 0.2265407871
N -5.2112042537 0.2696494813 -0.4402405976
C -4.6785464938 -1.09396489 -0.6822686215
C -5.1890153305 1.0346632414 -1.707077602
C -5.0176511464 -0.0116663286 -2.8117620138
C -4.2176993932 -1.1440372523 -2.1589595064
O -6.6953340101 -2.2372690729 -1.378773373
O -7.7873260761 -1.8232610211 0.9900990728
C -4.0668136982 2.0755581361 -1.6271264172
C -6.6740692228 1.2982979375 1.2562790255
O -4.35346826 -2.4036496905 -2.7619862691
O -2.8783103227 1.5182677314 -1.1199741131

N	-8.0471091328	1.676034083	1.5498273522
O	-8.504530907	-0.0598169173	2.9258682472
C	-8.8527124947	0.9926299843	2.3881429545
C	-10.2153864357	1.5883915593	2.6493260725
H	-3.8298314064	-1.2920307788	-0.0152302387
H	-5.4227700075	-3.0136835194	0.0624925599
H	-5.9228506731	-1.2919305426	1.722098877
H	-7.3393621621	0.2338790216	-0.4972183158
H	-6.1402004278	1.5696773707	-1.8250507951
H	-5.9982384501	-0.4042625189	-3.0984578653
H	-4.5289743666	0.3819557967	-3.7069055347
H	-3.1534709366	-0.9042398349	-2.2026018044
H	-7.5510726892	-2.4516294458	-0.971234473
H	-8.1816255159	-1.3642202199	1.7590696296
H	-4.4024161122	2.9164489106	-0.9969238729
H	-3.8382713131	2.4781323338	-2.6182932016
H	-6.1789393231	2.1923168018	0.870569004
H	-6.1761154546	1.0284704386	2.1927728408
H	-5.290014789	-2.6454713705	-2.672947914
H	-3.1580428188	1.0952852162	-0.2917403339
H	-8.4061821245	2.5148242241	1.1238569787
H	-10.3976500646	2.529227811	2.1250884687
H	-10.9785864753	0.8630662836	2.3576573482
H	-10.3204177093	1.7539531252	3.7241176444

calc_2d conf_13

C	-5.6439979524	-2.5800717405	-0.5602794989
C	-7.0476137636	-2.0315615209	-0.1714249164
C	-6.8367820144	-0.5414372622	0.1461219586
N	-5.4038968851	-0.2707490757	-0.0859348504
C	-4.8211601579	-1.3361781826	-0.9099360584
C	-5.0963045309	1.0041788213	-0.7512550404
C	-4.8123149571	0.6833533945	-2.2370765942
C	-4.8848649859	-0.8413876374	-2.3680651199
O	-5.7335058789	-3.5125225369	-1.62057079
O	-7.9754650402	-2.2588823974	-1.2111655729
C	-3.9032516593	1.6425960368	-0.0317365133
C	-7.2510722598	-0.1776521268	1.5714123935
O	-6.1073303331	-1.1952460479	-3.0109568648
O	-4.0853881757	1.5807624919	1.3668252138
N	-7.0681040396	1.2204969561	1.8751239301
O	-9.2677218966	1.6358468555	2.2764213333
C	-8.1117939784	2.0264656737	2.2205748511
C	-7.7349208328	3.4582276623	2.5396749287
H	-3.7656312498	-1.4724077073	-0.6431742687
H	-5.1929557826	-3.0689388005	0.3111785322
H	-7.4461875715	-2.5749522791	0.689215577
H	-7.4620264696	0.0428290336	-0.5438656317
H	-5.9568472703	1.668766556	-0.6346884812
H	-5.5458969087	1.1318023986	-2.9103391373
H	-3.8259947353	1.0528618108	-2.5360736967
H	-4.0504508644	-1.2403864608	-2.9558638211
H	-6.6903400598	-3.6890452135	-1.70191236
H	-7.6945407764	-1.6760245882	-1.9432718073
H	-3.8008839578	2.6953440349	-0.3075379214
H	-2.971011263	1.1312662461	-0.3206684629
H	-6.6774159799	-0.7960417787	2.2757144297
H	-8.3136847937	-0.3878450412	1.7163016347

H	-6.0473515848	-2.1642493093	-3.0817664738
H	-4.3083138953	0.6413077929	1.508094567
H	-6.1277339302	1.5990547399	1.8580767881
H	-8.0022190707	3.6669873134	3.5787027923
H	-6.6743275358	3.6777496431	2.3953017674
H	-8.3306969588	4.1256822455	1.9128231841

calc_2d conf_14

C	-6.2417416242	-2.4163489056	-0.5422873218
C	-7.5760802063	-1.734839331	-0.2368565563
C	-7.295111789	-0.2671922677	-0.6364739634
N	-5.8784809381	-0.0588782656	-0.3549313914
C	-5.2683163089	-1.3597281295	-0.0099137577
C	-5.0698159833	0.5630351949	-1.4038446808
C	-3.6632638059	0.1303365064	-1.0067348407
C	-3.8228822304	-1.3155596714	-0.5432374427
O	-6.2414158896	-2.5604786045	-1.9470292258
O	-8.6684057251	-2.3013194067	-0.9035379768
C	-5.2249089965	2.0828357311	-1.4632261006
C	-8.2227688197	0.7295625933	0.0626045463
O	-3.6726573516	-2.2583150742	-1.6099646175
O	-4.7962489917	2.7366723249	-0.3060805961
N	-8.1142342703	0.7237450825	1.5059434119
O	-6.7726001256	2.5502015517	1.6752146768
C	-7.3966823821	1.6354665495	2.2028061635
C	-7.4221299437	1.4831368851	3.7074419971
H	-5.2376894379	-1.4723779932	1.0833032945
H	-6.1311494589	-3.3872906595	-0.0402677916
H	-7.7834262598	-1.8051817851	0.8373509879
H	-7.4915512715	-0.1886704401	-1.7177406784
H	-5.3284099041	0.1514354127	-2.3981975806
H	-2.9334687368	0.2321761264	-1.8173274327
H	-3.3402757607	0.7649491589	-0.1763698433
H	-3.1076945419	-1.5793221703	0.2445058154
H	-5.3086169062	-2.6407269921	-2.2126700551
H	-8.3284801776	-2.5238357886	-1.7857181502
H	-6.2680540802	2.3318011765	-1.7158113767
H	-4.6105583629	2.4533945081	-2.2927671472
H	-9.2559050893	0.4920873112	-0.2126649982
H	-8.0099570467	1.7479969939	-0.2662173861
H	-2.8324650239	-2.0816367484	-2.0505958764
H	-5.4653921363	2.5864895085	0.3885504969
H	-8.629797894	0.0298471249	2.0216490247
H	-8.0478808759	0.6602837245	4.0617690943
H	-6.3993363242	1.3286436022	4.0594802967
H	-7.7781453294	2.4176051658	4.146846982

calc_2d conf_15

C	-5.5292574003	-2.1852861326	0.0560162221
C	-6.3275581143	-1.224666259	0.9783098443
C	-6.388631898	0.0858236889	0.188821423
N	-5.0841415139	0.1353033471	-0.4701400812
C	-4.6809600614	-1.2501753525	-0.8183748892
C	-4.980320502	0.9754453993	-1.6851932645
C	-4.3062388623	0.0661362764	-2.7219413172
C	-4.8129443022	-1.3176781771	-2.3493516338
O	-6.4356126961	-2.974918433	-0.6898489515

O	-7.5783876783	-1.8032936057	1.2686093432
C	-4.1625859119	2.2290913081	-1.3659318765
C	-6.5633196817	1.3523184606	1.0374047894
O	-6.1506349731	-1.3901957188	-2.7807333582
O	-2.9986303431	1.8859182715	-0.655696192
N	-7.5586809796	1.3188417463	2.1027383984
O	-9.2494279838	0.3312703137	0.9660498567
C	-8.8382382766	0.912353305	1.9727052171
C	-9.7479627027	1.1719757649	3.1495576013
H	-3.6198061348	-1.3835997376	-0.572080976
H	-4.8912670404	-2.853157301	0.6467010826
H	-5.7707587672	-1.0677914615	1.9115069847
H	-7.2025595835	0.0133440859	-0.5462395284
H	-5.9825003804	1.2547633383	-2.0359745273
H	-4.5790817855	0.3311636812	-3.745656879
H	-3.2181623849	0.1258135489	-2.6142250757
H	-4.2023258795	-2.1289288673	-2.772451349
H	-7.2469557639	-2.9656753255	-0.1402956084
H	-8.2804664834	-1.1643503913	1.0238212446
H	-4.7773954737	2.945868925	-0.7967575149
H	-3.8558315982	2.729044791	-2.290131563
H	-6.7756372694	2.1967332565	0.3703601229
H	-5.6018831501	1.5486841377	1.5183920286
H	-6.5434160479	-2.1228960758	-2.2712632125
H	-3.3189373721	1.2191466272	-0.0215598224
H	-7.3133503484	1.8049024175	2.9503808977
H	-9.2741450385	1.7177673628	3.9685286392
H	-10.6143467884	1.7368483493	2.7979084258
H	-10.1156388287	0.2140544353	3.5250354993

calc_2d conf_16

C	-5.822369136	-2.4696726217	-0.5847750635
C	-6.4488669734	-1.7106828566	0.6056345102
C	-6.3989528487	-0.2466773739	0.1495435967
N	-5.0588953882	-0.1742164344	-0.42111217
C	-4.8061768443	-1.4482722258	-1.1377597359
C	-4.7557660106	0.953603991	-1.3220944166
C	-4.1316633966	0.2943555452	-2.563148469
C	-4.8068526185	-1.0675694631	-2.6201651459
O	-6.8568562523	-2.8772131762	-1.4592749329
O	-7.729511688	-2.1897564381	0.9149229438
C	-3.7911917099	1.9159273263	-0.6266022778
C	-6.6278627345	0.7485515223	1.2777811557
O	-6.1631983887	-0.9214052844	-3.0558392365
O	-2.7038803041	1.2053598855	-0.0870467505
N	-7.959141643	0.589939261	1.8142968012
O	-8.3563271376	2.8133209425	2.0318318267
C	-8.7384360083	1.6563714128	2.1331835058
C	-10.1244455148	1.3145770058	2.6400612466
H	-3.7903310924	-1.7950747943	-0.9118525747
H	-5.3233591189	-3.3844664448	-0.2550117703
H	-5.8187623647	-1.8204399303	1.4959817968
H	-7.179335294	-0.0923409717	-0.6172204104
H	-5.6812051634	1.4784926092	-1.5957385498
H	-4.2830256422	0.8813134122	-3.4743235576
H	-3.0544542733	0.174372111	-2.4065637214
H	-4.2838090942	-1.8034547725	-3.2421433257
H	-6.9157161459	-2.2224099094	-2.1803275188

H	-8.0581257563	-2.5409125727	0.0652181551
H	-4.325470574	2.4807962546	0.1513769344
H	-3.3882810787	2.6397338338	-1.3418527718
H	-6.5451325881	1.7834286247	0.9351854424
H	-5.8611370164	0.5965186716	2.0510158919
H	-6.1659279407	-0.6847771137	-3.9917201757
H	-3.1299716617	0.4880427418	0.4128869383
H	-8.3315397634	-0.3498741673	1.8480091297
H	-10.8599415959	1.8587733378	2.0433933724
H	-10.3549123262	0.2468831805	2.6097565416
H	-10.2181669121	1.6668548812	3.6704927852

calc_2d conf_17

C	-6.0924638137	-2.154971053	-0.2477241113
C	-6.9269471053	-1.2566389283	0.6732732929
C	-6.4827886149	0.1741011958	0.2746216687
N	-5.1826467546	0.03340915	-0.3948430934
C	-4.7801080668	-1.3834457328	-0.3350062018
C	-5.1205129384	0.4716051039	-1.8011159162
C	-3.9083191988	-0.2912871296	-2.3269950813
C	-3.88590536	-1.6406325259	-1.5774899933
O	-6.7354126917	-2.1846000519	-1.5082352494
O	-8.2903079551	-1.522030552	0.442826279
C	-4.9625262224	1.9912736375	-1.829552436
C	-6.3085638884	1.1349215292	1.4571233754
O	-4.2740449164	-2.7525258873	-2.3438114862
O	-3.9375412875	2.399750133	-0.9560550328
N	-7.4024079655	1.2040923958	2.4198957099
O	-9.1756836014	1.0097496959	1.0124401677
C	-8.7227554494	1.2220236878	2.1389304388
C	-9.6459180568	1.5002349915	3.302460067
H	-4.2235242595	-1.5719854037	0.5930679611
H	-5.9662994939	-3.1702163427	0.1485073492
H	-6.6686127481	-1.4555265506	1.7244087457
H	-7.2184874525	0.5842782293	-0.4221445085
H	-6.0283209663	0.1817807939	-2.349879137
H	-3.943472693	-0.4548414238	-3.4061926678
H	-3.0058661406	0.2837736612	-2.0962574348
H	-2.866220362	-1.8690350215	-1.2582170472
H	-7.6866406795	-2.1203993986	-1.2975762025
H	-8.7782257869	-0.6789588663	0.5413852915
H	-5.9220292383	2.465088393	-1.5618309503
H	-4.7092998267	2.3267908554	-2.8405029605
H	-6.0924986955	2.1355018515	1.0633494021
H	-5.4247550978	0.813217339	2.015762203
H	-5.2329135994	-2.6872070171	-2.485800733
H	-3.9651489729	1.7284291273	-0.2493491502
H	-7.1377003417	1.4244227445	3.3669151614
H	-9.1345148248	1.6354401641	4.258067379
H	-10.2221678793	2.4010955564	3.0773811404
H	-10.3564470542	0.6753216493	3.3901637611

calc_2d conf_18

C	-5.8083007856	-2.3600850022	-0.2509769972
C	-6.4452268333	-1.4665821354	0.8246668733
C	-6.3423803066	-0.0583361286	0.2184453318
N	-4.9900377057	-0.0931745462	-0.3260080259

C	-4.7915092912	-1.4290003987	-0.9315026545
C	-4.6364377735	0.9287487294	-1.3239001344
C	-4.152149915	0.1404004445	-2.5584095247
C	-4.8907226139	-1.1855657393	-2.4485814786
O	-6.8144814206	-2.82392146	-1.1410971631
O	-7.7345454219	-1.9444766026	1.0799457325
C	-3.5651292684	1.8767168694	-0.7894651686
C	-6.5054404893	1.0897913001	1.2230250468
O	-6.206834349	-0.9513756465	-2.8876400014
O	-3.2239847278	2.8852487715	-1.7177168451
N	-7.8733625766	1.542536249	1.412588227
O	-8.483589123	-0.0694985398	2.8790415234
C	-8.7532665839	0.9541468502	2.2468244636
C	-10.1007239246	1.6210399612	2.383671032
H	-3.7732794017	-1.7793473524	-0.7161145844
H	-5.3159329254	-3.2312644111	0.1957550023
H	-5.8195258343	-1.4941927995	1.7278846458
H	-7.1064457429	0.0470312514	-0.5709719141
H	-5.5224126709	1.5171692253	-1.5983330176
H	-4.3840290545	0.6399668357	-3.5014882664
H	-3.0682365744	-0.030405175	-2.5067991653
H	-4.4072224742	-1.9896157624	-3.0236372389
H	-7.6270864947	-2.8424624593	-0.6024486773
H	-8.1011689742	-1.4177039626	1.8214455482
H	-2.688596362	1.2855921454	-0.4811003778
H	-3.9222773602	2.401121074	0.1009745027
H	-5.9407518526	1.9564811621	0.8736407981
H	-6.0954114737	0.8033469763	2.19581766
H	-6.7332281565	-1.6805829833	-2.5094086944
H	-2.8205670103	2.453915183	-2.4813583172
H	-8.1773855977	2.3486489726	0.8910221779
H	-10.8762512852	0.9143940296	2.0786862193
H	-10.2677605348	1.8498353552	3.4387457599
H	-10.2033071099	2.5384597191	1.7997777023

calc_2d conf_19

C	-6.1688490112	-2.5258952433	-0.9973415445
C	-7.2379841881	-2.0304222508	-0.0241756826
C	-6.9220877869	-0.5171182075	0.1003324569
N	-5.4699345061	-0.4009885561	-0.1619033292
C	-4.9494547711	-1.7452836458	-0.5013522242
C	-5.0554353749	0.521227296	-1.2272199764
C	-3.6602784595	0.0015481131	-1.5681407294
C	-3.7682210215	-1.5231591124	-1.4673392775
O	-6.6306216469	-2.1152815266	-2.2676585166
O	-8.5428325884	-2.3078223729	-0.4357569254
C	-5.0518362039	1.947073743	-0.6744698725
C	-7.3536839592	0.0115981339	1.4660563751
O	-4.0539139863	-2.1510140813	-2.7170514998
O	-4.4839891732	1.9530489429	0.622163509
N	-7.2408666527	1.4411757458	1.6256890438
O	-9.4592563355	1.8005420353	1.9819872807
C	-8.3207591049	2.2311609208	1.8828120254
C	-8.0081215729	3.7049509894	2.0466574382
H	-4.592458421	-2.2391288496	0.4116459638
H	-6.0218221439	-3.6127553833	-0.9546644234
H	-7.1042113988	-2.5141397561	0.9508751292
H	-7.4819675921	0.0136592487	-0.6797744136

H	-5.7181601305	0.45865167	-2.1029075051
H	-3.3142406024	0.3286990066	-2.553343346
H	-2.9501093448	0.3734043921	-0.8220761118
H	-2.8504301813	-1.9651620747	-1.0632016721
H	-5.877508905	-2.2120356223	-2.8737518313
H	-8.5493669538	-2.141083635	-1.3917342955
H	-6.0799622841	2.3317557397	-0.6429221106
H	-4.4664816778	2.6097636182	-1.3206286087
H	-6.7692503994	-0.4994825336	2.2435956441
H	-8.4081868064	-0.2333887898	1.6182626377
H	-3.3151809342	-1.9858785362	-3.3155672332
H	-4.5539147212	1.0120098992	0.8926351424
H	-6.3203786666	1.861462813	1.5682916964
H	-8.2827182802	4.010845607	3.0594733178
H	-6.9589191045	3.9558545338	1.8720730118
H	-8.6346051089	4.2746077287	1.3564304571

calc_2d conf_20

C	-5.9762194467	-2.2194552154	-0.7668002244
C	-6.6819883319	-1.6276166645	0.4512249744
C	-6.5117986478	-0.1161879859	0.2249364738
N	-5.1584219397	0.0021390286	-0.3190590926
C	-4.7498386797	-1.3094806043	-0.8793131956
C	-4.9648458005	1.0511684106	-1.3378679581
C	-4.8769379736	0.298829312	-2.6716352432
C	-4.2309665478	-1.034687818	-2.3023578258
O	-6.898340861	-2.0778590487	-1.8305945824
O	-8.020132063	-2.0412721257	0.5789327019
C	-3.7165650493	1.8613882687	-0.9826850955
C	-6.7069943294	0.7143274519	1.4859554284
O	-4.5830798318	-2.1260414702	-3.1516476564
O	-2.6300071698	1.0207427465	-0.6601721887
N	-8.0596162466	0.5702787555	1.9736474462
O	-8.2803236008	2.7341700836	2.6175474692
C	-8.756939272	1.6157699826	2.4901929828
C	-10.1784670389	1.3006006051	2.9095222717
H	-3.9490514381	-1.7495529495	-0.2713852188
H	-5.6977325825	-3.2715919737	-0.6309316052
H	-6.1627590491	-1.9276156292	1.368203193
H	-7.2691834717	0.1883629831	-0.5156714636
H	-5.8262966695	1.7290834425	-1.3318876945
H	-5.8864111965	0.0985911146	-3.0443733591
H	-4.3233626058	0.8480573794	-3.4394934441
H	-3.1426332224	-0.9282858318	-2.2748206808
H	-6.4028590788	-2.2965938763	-2.6389713645
H	-8.3584287703	-2.0803191048	-0.3311070873
H	-3.9535496759	2.5310072902	-0.1429214449
H	-3.4009311687	2.4825347647	-1.8261640822
H	-6.5408809394	1.7780222037	1.2958380102
H	-5.9701444626	0.4012321684	2.2389945998
H	-4.1879472448	-1.9712606116	-4.0184185195
H	-2.953763858	0.4965542826	0.0889822201
H	-8.507203656	-0.3254843703	1.8331414773
H	-10.2760869678	1.4809102969	3.9830004205
H	-10.8550622774	1.9921183966	2.4021433305
H	-10.4862288344	0.2744163121	2.6940160275

calc_2d conf_21

C	-5.9101259237	-2.4665492471	-0.2756871712
C	-7.3324875582	-1.9380036472	-0.5833534188
C	-7.2392114508	-0.4163720686	-0.357677574
N	-5.8176584155	-0.1106913777	-0.1253403631
C	-4.9981853174	-1.2606121675	-0.5243692607
C	-5.2682035764	1.0428032699	-0.8433843626
C	-4.7480724588	0.5014304373	-2.1923445378
C	-4.5291994048	-1.001961218	-1.9838932897
O	-5.5982213429	-3.6053607362	-1.0590726491
O	-7.7362528307	-2.3118189241	-1.8824798409
C	-4.1526494678	1.6829264657	-0.0184051462
C	-8.1133627085	0.0082003253	0.8270870786
O	-5.2886576991	-1.7118363975	-2.9611206457
O	-4.5964113604	2.1582827845	1.2208466698
N	-8.0998157881	1.4244762004	1.1021206123
O	-6.8089706946	1.2621022398	2.957398907
C	-7.4407822847	1.9544771541	2.1696760582
C	-7.4979007913	3.4576451436	2.2936771277
H	-4.1080256353	-1.314062004	0.1120367666
H	-5.8448715306	-2.7341617594	0.7849900062
H	-8.0681804243	-2.3964318056	0.0836116576
H	-7.6132917924	0.0785461228	-1.2675322812
H	-6.0567003796	1.7906785851	-0.9690551714
H	-5.4920816959	0.6241882779	-2.9845123149
H	-3.8387885914	1.0130640355	-2.5211613674
H	-3.475526164	-1.2818498843	-2.096665417
H	-6.4375537405	-3.8308915786	-1.5013241259
H	-7.0769205214	-1.9202426573	-2.4955178034
H	-3.7528301114	2.5436416012	-0.5648448303
H	-3.3223554291	0.9650415717	0.0962221092
H	-7.7520432631	-0.4803746912	1.7350356375
H	-9.1453470101	-0.3149085742	0.6430984315
H	-5.1593960962	-2.647984142	-2.722751473
H	-5.0651751604	1.4345209703	1.670185301
H	-8.6087738084	2.0431488919	0.4914595379
H	-6.5341843769	3.8473960411	1.9543488779
H	-8.2983336054	3.919065083	1.709107973
H	-7.61745159	3.7204776793	3.3455902923

calc_2d conf_22

C	-6.2090323806	-2.3729013744	-0.7122601086
C	-6.9617465513	-1.6340572537	0.395344118
C	-6.526249093	-0.1689883179	0.1715590406
N	-5.1260418209	-0.279605731	-0.239047723
C	-4.8419538268	-1.6858730312	-0.616879644
C	-4.6518448697	0.6052679014	-1.3073297598
C	-3.4534877292	-0.1698183227	-1.8499557315
C	-3.9046819972	-1.6276033546	-1.8371373966
O	-6.9541364851	-2.0925954654	-1.8771377826
O	-8.3527307269	-1.8261941942	0.3477701821
C	-4.2660219953	1.9668668852	-0.7293268379
C	-6.729711859	0.6912796458	1.4157762026
O	-4.6214422541	-1.9793705235	-3.0206610586
O	-3.4116157123	1.80768905	0.3745528214
N	-8.1355533145	0.7696271712	1.7405431214
O	-8.0984460349	2.9711382065	2.290095621
C	-8.7216772788	1.9317726636	2.1338197055

C	-10.2149230276	1.851755803	2.3774295015
H	-4.2993774943	-2.1765666618	0.2027917554
H	-6.1401818545	-3.4547007249	-0.5360319423
H	-6.6262602046	-1.9757570981	1.3810206152
H	-7.1412059894	0.2389259493	-0.6457996157
H	-5.4156257171	0.7355422833	-2.0925190178
H	-3.1404725031	0.1638048725	-2.8446204827
H	-2.6119726209	-0.0288934393	-1.1643210753
H	-3.0666304996	-2.3242038995	-1.7180917476
H	-6.3423589165	-2.1438997527	-2.6307711188
H	-8.5738249982	-1.796721983	-0.5982917587
H	-5.174159394	2.527100548	-0.4607518272
H	-3.7333594626	2.5568114693	-1.4820730815
H	-6.3761013336	1.7147653464	1.2740505719
H	-6.1523687236	0.2611698592	2.2472615041
H	-4.0551908522	-1.8150574185	-3.7843835455
H	-3.7871469408	1.0489591518	0.8549366091
H	-8.6988274472	-0.0494922542	1.5556312994
H	-10.7101407129	2.612586429	1.7697283528
H	-10.6485064228	0.8741907439	2.1525438663
H	-10.4129909548	2.0940468212	3.4245363673

calc_2d conf_23

C	-5.5629187627	-2.0753975513	0.0414990775
C	-6.8704985612	-1.2828870057	0.3223956183
C	-6.5388658965	0.1742307053	-0.0456719756
N	-5.1786300018	0.1710739246	-0.6045331558
C	-4.7713784193	-1.1976500146	-0.9362728146
C	-4.9624415658	0.9939353544	-1.801192542
C	-4.9735092143	0.0345256018	-3.0139422077
C	-5.0544634994	-1.3848420625	-2.442104673
O	-5.8441702982	-3.3688525169	-0.4646408039
O	-7.945825551	-1.8195539761	-0.4231591367
C	-3.6389504643	1.7428607912	-1.6455847302
C	-6.5913010052	1.1416467503	1.1415234278
O	-6.354552645	-1.9134079626	-2.6968132745
O	-3.6013195113	2.4328284837	-0.4243472569
N	-7.9147002813	1.3120145376	1.6950289334
O	-7.6174316468	-0.1277355234	3.4223717212
C	-8.331913209	0.6553906659	2.8134185712
C	-9.7500849399	0.9488813627	3.2517513478
H	-3.6914349724	-1.3085290871	-0.7784634084
H	-4.9924792341	-2.1706319972	0.9721496825
H	-7.1628261242	-1.3757137857	1.369302398
H	-7.2780594066	0.5008130562	-0.7939177292
H	-5.760681123	1.7413657741	-1.8571688522
H	-5.8321332441	0.1977828801	-3.6690421596
H	-4.0718507695	0.162403253	-3.6217034033
H	-4.3124500739	-2.0508164471	-2.897157148
H	-6.8045773918	-3.4740332095	-0.3285054261
H	-7.7169494032	-1.6686437111	-1.3622833728
H	-3.5223135612	2.4789068942	-2.4468368281
H	-2.802244426	1.0283255355	-1.7315857092
H	-6.1982000657	2.1145950655	0.8272291493
H	-5.9527697199	0.7647304633	1.9439570607
H	-6.3119342007	-2.802143967	-2.2988479425
H	-3.8784725202	1.7635053218	0.2241384485
H	-8.5632749942	1.917310258	1.2186285446

H	-9.7446459828	1.1736386619	4.3199887262
H	-10.2192147425	1.7760877233	2.7132309847
H	-10.3545325709	0.0489857535	3.1101608585

calc_2d conf_24

C	-5.9161705488	-2.6309320839	-1.0348949114
C	-6.8598739484	-2.1869187109	0.1096384641
C	-6.6906515814	-0.6620525708	0.160069946
N	-5.2343457932	-0.5369586957	-0.0257992292
C	-4.8498659528	-1.5148865492	-1.067593382
C	-4.6952880798	0.7779475333	-0.4221324964
C	-4.0249474578	0.577197197	-1.7979123273
C	-4.6802777831	-0.6831620377	-2.3459050827
O	-6.6501626012	-2.8206726807	-2.2276912769
O	-8.1657580226	-2.6326190431	-0.0805711147
C	-3.6999614074	1.2594148243	0.6363110449
C	-7.2326961504	-0.0970551059	1.4673010036
O	-5.9745281032	-0.3713236344	-2.8696186317
O	-4.2284462186	1.1211511863	1.9374851576
N	-7.1129093736	1.3334313524	1.6254955159
O	-9.2911887144	1.796112203	1.1698990877
C	-8.1726418572	2.174163886	1.4831610052
C	-7.8712408254	3.6362912827	1.7475850936
H	-3.8610492543	-1.9298771779	-0.8361525439
H	-5.4643587336	-3.6004952101	-0.8144045572
H	-6.4885149977	-2.5958505891	1.0586966586
H	-7.2450334677	-0.2041332476	-0.6736443702
H	-5.5215651456	1.492529347	-0.4934284793
H	-4.1553444325	1.4348448568	-2.4644718409
H	-2.9468211807	0.4125639088	-1.6828932421
H	-4.0780883097	-1.2002123956	-3.1024189284
H	-6.7061393532	-1.9557903035	-2.6758485634
H	-8.2271509066	-2.8013647244	-1.0384310867
H	-3.4556952269	2.3160075647	0.4943621131
H	-2.7648523929	0.6850379623	0.5459495501
H	-6.7343289602	-0.5940179097	2.3103603454
H	-8.2969137183	-0.3412417355	1.5120200447
H	-5.8662578759	0.1442403819	-3.6787851377
H	-4.5127618686	0.1899559743	1.9628211796
H	-6.2032482527	1.6876169751	1.8958088976
H	-6.8208618718	3.838034347	1.9722490921
H	-8.1716902249	4.2213311398	0.8751809933
H	-8.4833694067	3.9726924829	2.5882020091

calc_2d conf_25

C	-5.5780346943	-1.8133931026	0.4026930847
C	-7.0759386899	-1.4806999631	0.1328518883
C	-7.069056912	-0.1219523968	-0.5933815804
N	-5.6742702187	0.3323646102	-0.5748807082
C	-4.7940806619	-0.8354901699	-0.4773658015
C	-5.2458074432	1.0774711593	-1.762379434
C	-4.6342300895	0.0386024429	-2.7321644018
C	-4.4986622459	-1.2652859459	-1.9291293268
O	-5.2887747729	-3.1708273585	0.1199023283
O	-7.6784747201	-2.4999378415	-0.6425443502
C	-4.2559651208	2.1546120244	-1.2950785901
C	-8.028880309	0.9386178252	-0.034363244

O	-5.4456400136	-2.2153455156	-2.4121887459
O	-4.7400696649	2.7666375941	-0.1246809243
N	-7.5908989829	1.5948971689	1.1753235228
O	-8.5610518228	0.1311487258	2.6084999162
C	-7.9189714327	1.1548527201	2.4191159004
C	-7.4507623777	2.027473923	3.5638140112
H	-3.8486598673	-0.5414691879	-0.005476221
H	-5.3473408105	-1.6069026993	1.453784964
H	-7.6446821855	-1.4371301674	1.0622107812
H	-7.4074302114	-0.3197499684	-1.6240245849
H	-6.1179798716	1.5817598563	-2.190018261
H	-5.2748424201	-0.1511879473	-3.5963511062
H	-3.6649039416	0.3753746763	-3.1129732847
H	-3.4930359695	-1.693241114	-2.0156103447
H	-6.1665354376	-3.5938779682	0.0623416619
H	-7.2642700429	-2.4332683862	-1.5234564542
H	-4.1314204839	2.9244196203	-2.0620375264
H	-3.2658701887	1.6995504618	-1.1228862241
H	-8.9974708046	0.4698173841	0.1592780604
H	-8.1821790432	1.7163615809	-0.7890826205
H	-5.2904348625	-2.9874078853	-1.8373237267
H	-5.0776251547	1.9956820208	0.3740764872
H	-7.0440873138	2.4351014957	1.0738415038
H	-6.8036589693	2.852518513	3.2565467508
H	-8.3275054989	2.4369666973	4.0723039418
H	-6.9194967499	1.4039371174	4.2858126588

calc_2d conf_26

C	-5.4670990404	-2.3552447145	-0.3476703062
C	-6.6541608154	-1.6909972695	0.407888456
C	-6.3289311642	-0.1880031402	0.4211473206
N	-5.0404719028	-0.0372227007	-0.2757449615
C	-4.8248009096	-1.2070316963	-1.1326923203
C	-4.9664145476	1.1396811659	-1.154367374
C	-5.4565829211	0.6741710081	-2.5422671295
C	-5.430978266	-0.8610362417	-2.5145705697
O	-5.9067029232	-3.4320449117	-1.1529498876
O	-7.8785776012	-2.0040443165	-0.2229651183
C	-3.5230050715	1.6438418512	-1.156868998
C	-6.2269701177	0.4361968275	1.8146538267
O	-6.76364718	-1.3469370148	-2.6771674648
O	-3.0616529005	1.8123433771	0.1568422303
N	-7.5068419041	0.5702382974	2.4720827319
O	-8.0722864516	2.4081848239	1.2833010816
C	-8.3676597573	1.5653121275	2.1173213106
C	-9.7073586999	1.5605115189	2.8200668343
H	-3.749211783	-1.3727461096	-1.2626832568
H	-4.7369185372	-2.7280810719	0.3801539145
H	-6.7435935385	-2.1005785381	1.4181871623
H	-7.1360256121	0.3361668576	-0.1090424453
H	-5.59928096	1.9254179685	-0.7309431901
H	-6.4831965182	0.9935909134	-2.7374235128
H	-4.8334276776	1.0772626697	-3.3464035111
H	-4.8119772014	-1.2744709368	-3.3189628058
H	-6.8412359952	-3.5524040637	-0.8968122718
H	-7.837275873	-1.5660055604	-1.0980240542
H	-3.4652676722	2.6126808438	-1.662123815
H	-2.8846852832	0.9425436874	-1.7232715804

H	-5.7884046268	1.4328668953	1.71851444
H	-5.5618347471	-0.1604300129	2.4465163213
H	-6.6609112647	-2.3143557691	-2.6394000442
H	-3.3960661317	1.0221566215	0.6161361304
H	-7.823829996	-0.1571112893	3.0912720904
H	-9.8998366208	2.5620671573	3.2095496591
H	-10.4891442086	1.3386446201	2.0888023185
H	-9.7747335787	0.8388661257	3.6379187885

calc_2d conf_27

C	-5.946048462	-2.4270695024	-0.7774102027
C	-6.4896020628	-1.7497059987	0.5026016114
C	-6.3456816641	-0.2506971487	0.2096475535
N	-5.0177111382	-0.2240740314	-0.4077111776
C	-4.952992104	-1.3780895826	-1.3276847797
C	-4.6312810713	0.9835766316	-1.1603468315
C	-4.4237847907	0.5310649903	-2.6220811666
C	-5.1868147257	-0.7831527885	-2.7237099984
O	-7.0208267445	-2.7780621041	-1.6269150958
O	-7.7896947104	-2.1753115744	0.8079994336
C	-3.3592487061	1.5791923681	-0.5599470606
C	-6.4635620145	0.6106922692	1.4600755473
O	-6.585895677	-0.5268215338	-2.8880738913
O	-3.4909895618	1.8065748407	0.817014022
N	-7.8043121137	0.52018972	1.9881739727
O	-8.0638378527	2.7527575683	2.3181313734
C	-8.5171013421	1.6187964259	2.3544972443
C	-9.9275278685	1.3392026868	2.8332579921
H	-3.9361377575	-1.7894145045	-1.3337294785
H	-5.4393178883	-3.3651491899	-0.5407359194
H	-5.8393390302	-1.9934027524	1.3514597224
H	-7.1362248738	0.0537529252	-0.496549826
H	-5.4364786047	1.7232790985	-1.0880785902
H	-4.773405586	1.2688461574	-3.3502562391
H	-3.3595985385	0.3549604653	-2.8208657491
H	-4.8269396491	-1.4418768736	-3.5230305435
H	-7.1956717322	-2.0127656064	-2.2076900639
H	-8.1393491545	-2.5002522052	-0.0436948712
H	-3.1322055483	2.5426334618	-1.0268730641
H	-2.5160999737	0.8999318932	-0.7734653976
H	-6.2617525057	1.665745377	1.2610278041
H	-5.7272801787	0.2703308089	2.2038105511
H	-6.730361389	-0.1489038801	-3.7648222174
H	-3.7724142313	0.9524278164	1.1796579341
H	-8.2492843325	-0.3871639837	1.9541603815
H	-10.0088639025	1.6433031925	3.8799579352
H	-10.6211426649	1.9592868676	2.2609630131
H	-10.2252198485	0.2913676956	2.7462360727

calc_2d conf_28

C	-5.8290899899	-2.4473049411	-0.5654778865
C	-6.449089333	-1.6916801757	0.6232998443
C	-6.417606393	-0.2291248607	0.1599292783
N	-5.0875052059	-0.154878729	-0.4305522837
C	-4.8473106599	-1.4234795848	-1.1601909889
C	-4.8105760657	0.9726771055	-1.3479771349
C	-4.240430644	0.3103102609	-2.6119596301

C	-4.9352145681	-1.0407971079	-2.6480280439
O	-6.9103741143	-2.8111298627	-1.4426150581
O	-7.7064359607	-2.1887796973	0.9987244477
C	-3.8212067552	1.9303544298	-0.6824996757
C	-6.6194883067	0.7647567138	1.2956367604
O	-6.2536976457	-0.8046239919	-3.087935375
O	-2.7292175645	1.2154885159	-0.1554708737
N	-7.9345792336	0.6173822202	1.8732309782
O	-8.3254683755	2.8442340188	2.0678068743
C	-8.7018364303	1.6900252576	2.2049784886
C	-10.0677632213	1.3571836359	2.7693443588
H	-3.8198448621	-1.7611027414	-0.9707238852
H	-5.3228898041	-3.3610703969	-0.2450003846
H	-5.7887406899	-1.7903411353	1.4914880648
H	-7.2096459564	-0.0746817089	-0.5940751666
H	-5.7435030908	1.4978131656	-1.5889256624
H	-4.446983423	0.8876537652	-3.5154985918
H	-3.1579764925	0.1866261946	-2.5049729188
H	-4.4194689132	-1.7724322876	-3.288801558
H	-6.8009287583	-3.7328389772	-1.700767764
H	-8.1466031862	-2.4187422365	0.1639835584
H	-4.3308380605	2.511652812	0.100813415
H	-3.4266616963	2.640836673	-1.4153285058
H	-6.5423050717	1.79707593	0.9456638292
H	-5.8303440168	0.613166764	2.0461642732
H	-6.7776641373	-1.5723309754	-2.8112113985
H	-3.1547993187	0.4976680779	0.3440442631
H	-8.2976679141	-0.3210489519	1.9643187114
H	-10.2898484665	0.2873288962	2.7894540692
H	-10.1325589216	1.7509884696	3.7867238696
H	-10.8268367526	1.8701654558	2.1744077018

calc_2d conf_29

C	-5.7092967461	-2.364273284	0.0974676663
C	-6.9974271933	-1.5874053243	0.4601523402
C	-6.9591771908	-0.3967064428	-0.505940788
N	-5.5501817011	-0.0144382337	-0.4582319425
C	-4.7284093534	-1.234995659	-0.2691715585
C	-4.9906501182	0.8036318265	-1.5399222551
C	-3.6018207263	0.1898519669	-1.7672944089
C	-3.8427175296	-1.2953740059	-1.5159401737
O	-6.0246294703	-3.2888568537	-0.9257691095
O	-8.1364029181	-2.3806379288	0.3442671344
C	-4.9503586139	2.2703341698	-1.0801191307
C	-7.9288051495	0.7329585369	-0.1654704849
O	-4.5960587352	-1.847434057	-2.5989937106
O	-4.5917764165	2.3262121769	0.2833367049
N	-7.5778327632	1.4653842526	1.0272199755
O	-9.5794902581	1.1723684152	2.0687193867
C	-8.463975876	1.6647699565	2.0466466055
C	-7.9544645868	2.5424834056	3.1721066022
H	-4.0485059592	-1.0860235421	0.5800253065
H	-5.3398220146	-2.9451637544	0.9476039218
H	-6.941228036	-1.2114096353	1.487503999
H	-7.2329939878	-0.7711769581	-1.5089156582
H	-5.5921855369	0.7101973078	-2.454513199
H	-3.2096514887	0.3935767349	-2.7680395956
H	-2.8917396023	0.5890891315	-1.0342563823

H	-2.9284626486	-1.876459856	-1.3495793961
H	-5.6587527392	-2.9545543533	-1.7636700931
H	-7.9183855628	-3.0061046619	-0.3698439703
H	-5.9315164388	2.7393041552	-1.2436870796
H	-4.2166637924	2.8389080338	-1.6616674466
H	-8.9177517356	0.300415783	0.0058433367
H	-8.0131580159	1.419946041	-1.0182490652
H	-4.0119210792	-1.9666645233	-3.3578786225
H	-4.8591587982	1.4367723268	0.6041218523
H	-6.7183175424	1.9961439154	1.0230109473
H	-6.9343261664	2.9055925394	3.0247015896
H	-8.6255251067	3.3980184988	3.2803554283
H	-8.0004584022	1.9757198989	4.1050712737

calc_2d conf_30

C	-6.0653929182	-1.989323005	-0.0264388785
C	-6.9726287785	-0.9710961214	0.6687852872
C	-6.6579697913	0.3419950455	-0.0966832186
N	-5.291573431	0.1889092553	-0.6155303732
C	-4.8010318258	-1.1550235505	-0.2462355377
C	-5.0981743305	0.3680471757	-2.0576031939
C	-3.7720538542	-0.3522292793	-2.2865329511
C	-3.8164084361	-1.570668788	-1.3585994478
O	-6.7513462959	-2.3084924624	-1.222071305
O	-8.327186271	-1.3348672132	0.6314285752
C	-5.0443814379	1.8618195468	-2.372355913
C	-6.7792413922	1.5851737898	0.7885714375
O	-4.298935407	-2.7515217197	-2.003008561
O	-4.1349693444	2.5148470333	-1.5239230233
N	-8.0624841744	1.6771024981	1.4470353989
O	-7.2897716971	1.0217374049	3.4828552556
C	-8.2282991899	1.2793020973	2.7446857014
C	-9.6690068409	1.1646869591	3.1899057803
H	-4.272594265	-1.1007753099	0.7143375629
H	-5.8831031683	-2.8851027491	0.5809784874
H	-6.6956820856	-0.8627579967	1.7217491348
H	-7.368709043	0.4113562263	-0.9331921242
H	-5.9040808089	-0.109171252	-2.638069577
H	-3.6145931941	-0.6350643815	-3.3320247705
H	-2.958383937	0.3160350132	-1.9883536869
H	-2.8293106744	-1.7919446536	-0.9372871933
H	-6.106444014	-2.7587683925	-1.793371722
H	-8.4423307886	-1.7709856127	-0.2289518655
H	-6.0570037841	2.2875814147	-2.2787060193
H	-4.7211748138	2.0233757365	-3.4057814385
H	-6.5933767738	2.491850314	0.20130516
H	-6.0297535172	1.5411540375	1.5816202779
H	-3.6923789878	-2.9732755352	-2.7200167429
H	-4.2436914249	2.0560742559	-0.6707454099
H	-8.8855214469	1.6908780057	0.8641296099
H	-9.7128738568	1.2514717802	4.2751469688
H	-10.3118438482	1.9231159449	2.7343716069
H	-10.0452941511	0.177554488	2.9025767083

calc_2d conf_31

C	-6.6496554516	-2.0651289004	-1.1387503033
C	-7.4045908078	-1.4484756313	0.0344853538

C	-6.5290939206	-0.2197915711	0.3852711161
N	-5.1646859251	-0.6203762902	0.0349970174
C	-5.2069117581	-1.9220916808	-0.6677677651
C	-4.4119225881	0.3211096624	-0.794926763
C	-3.3460311234	-0.5733378348	-1.4177114577
C	-4.073599488	-1.8968855616	-1.7277611331
O	-6.8971230505	-1.248075193	-2.2718592023
O	-8.7035475222	-1.1372938534	-0.3835733643
C	-3.8458370317	1.4669071958	0.0348441378
C	-6.6482433012	0.2425131935	1.8562908858
O	-4.4970040811	-2.0104303141	-3.0614500808
O	-3.1238416235	2.3989567559	-0.7395736733
N	-7.3997111569	1.4704779538	2.0460715019
O	-9.4235117629	0.5481407919	1.6377299627
C	-8.742544923	1.5302029383	1.936263709
C	-9.3853278432	2.8669647993	2.2159559061
H	-5.0222181371	-2.7301436576	0.0535086878
H	-6.939759007	-3.1041625436	-1.3376673946
H	-7.4124661054	-2.1534060884	0.8808654277
H	-6.8576350868	0.6091479609	-0.2596727077
H	-5.0448740737	0.7509144814	-1.5909384014
H	-2.9028483834	-0.1661272063	-2.3293119587
H	-2.5490847549	-0.7526504131	-0.6838078142
H	-3.3955143888	-2.7401534961	-1.5709379424
H	-7.8193236995	-0.9505061785	-2.1734669776
H	-9.1055469096	-0.5707668938	0.3090296332
H	-3.2378107737	1.0439525528	0.8507132961
H	-4.6585823752	2.040351837	0.4933866908
H	-5.6442574452	0.4098417838	2.2480346488
H	-7.1124099381	-0.5385741298	2.4677367992
H	-5.3416926445	-1.5391667008	-3.1516780303
H	-2.366416398	1.9354025462	-1.1183352855
H	-6.8955452293	2.3136299587	2.2669201887
H	-8.6730285202	3.6554025351	2.469090807
H	-9.9598239986	3.1720178523	1.3383491145
H	-10.091978772	2.7476093397	3.0406453709

calc_2d conf_32

C	-5.9930970126	-2.3858075241	-0.4821548234
C	-6.7149433199	-1.7055423443	0.6775784644
C	-6.3274588926	-0.2210942723	0.4966745102
N	-5.0310326472	-0.2230510195	-0.1822211477
C	-4.6685099202	-1.6260024036	-0.4791761666
C	-4.9337077945	0.5378041604	-1.4366712599
C	-3.7144381142	-0.0981554509	-2.0927689082
C	-3.832181599	-1.6027694715	-1.7850325355
O	-6.732437513	-2.1113678676	-1.658903729
O	-8.0975520079	-1.9340276071	0.5788947554
C	-4.7798645138	2.0373696545	-1.2221342789
C	-6.3231371025	0.5483739545	1.8381599181
O	-4.3667771904	-2.3631683022	-2.8393074767
O	-5.980243588	2.7094056944	-0.8971398889
N	-7.1620460828	1.7394559595	1.8112054225
O	-9.0584111643	0.5238005023	1.6006829529
C	-8.5169641718	1.6143329131	1.7563521034
C	-9.3190622936	2.8870170817	1.8544071466
H	-4.0679738451	-2.0306968162	0.347559487
H	-5.8700111788	-3.4667569799	-0.3409332732

H	-6.3191410644	-2.087696799	1.6319188479
H	-7.0862117055	0.2281692545	-0.1578659456
H	-5.8256788545	0.378477809	-2.0658222421
H	-3.6641878341	0.0720703303	-3.1702663364
H	-2.8041824464	0.3079935026	-1.6345373847
H	-2.8422597272	-2.0298002425	-1.6051229534
H	-7.66424508	-2.1023873242	-1.3728698923
H	-8.5529034294	-1.1649684535	0.9750776001
H	-4.4376627077	2.4951064855	-2.1550624483
H	-3.998800943	2.2033784856	-0.4631093334
H	-5.3013536833	0.8619256357	2.0558338688
H	-6.6636309932	-0.099713551	2.6541856388
H	-5.3290360834	-2.23208181	-2.8452425519
H	-6.3391232294	2.3290783573	-0.0834055048
H	-6.7795320926	2.6102183044	2.1474325933
H	-8.7224929367	3.7623590422	2.1199375303
H	-9.7983633804	3.0717473281	0.8894346526
H	-10.1113438566	2.7480037838	2.5924125884

calc_2d conf_33

C	-6.1419698968	-2.4843683935	-0.8050300283
C	-7.5610627393	-2.0075434327	-0.4752176282
C	-7.4277872035	-0.4600611009	-0.3527622728
N	-6.0063226519	-0.1770653516	-0.2182986302
C	-5.2752536335	-1.4368713901	-0.1037933321
C	-5.345363169	0.7445466807	-1.1476094752
C	-4.1564738909	-0.0383140533	-1.7257860533
C	-3.9048109849	-1.1750901096	-0.7340187706
O	-6.031892793	-2.4335303258	-2.2164229396
O	-8.5170982958	-2.4335434497	-1.4067079913
C	-4.9160419847	2.0130068236	-0.405157509
C	-8.2339700343	0.0279504711	0.8561266354
O	-3.440756347	-2.3824857636	-1.3372708365
O	-4.1932804312	1.7206262293	0.761432806
N	-8.1852509785	1.4552955415	1.0851012259
O	-6.5127285612	1.3758179513	2.6174969975
C	-7.3306132821	2.0239453219	1.9737672572
C	-7.4509487013	3.5229288476	2.1412515525
H	-5.1646123396	-1.7303738455	0.9495450845
H	-5.9494565141	-3.5007621537	-0.4413830294
H	-7.85850031	-2.4205556668	0.4963676602
H	-7.8258891134	-0.0017201826	-1.2680787282
H	-6.0357046302	1.0330214026	-1.9537798175
H	-4.4345887835	-0.475023625	-2.6880844522
H	-3.2731476778	0.5904983856	-1.8707217327
H	-3.2034331802	-0.8497095138	0.0410826988
H	-5.1105951311	-2.6764997462	-2.4075585965
H	-8.0401989999	-2.4773825035	-2.2516727635
H	-5.8097270343	2.6171557378	-0.1853850836
H	-4.2669647787	2.6201490556	-1.0465360434
H	-7.835186367	-0.4430111395	1.7581251746
H	-9.2804958965	-0.2768425983	0.7419994154
H	-2.5448540429	-2.2268797109	-1.6606452832
H	-4.8317575818	1.3145488566	1.3750607781
H	-8.8266419956	2.0481476313	0.5839472854
H	-8.1700074105	3.992390451	1.4649751375
H	-7.7430390166	3.7364369561	3.1725947255
H	-6.4655736174	3.9671677128	1.984046563

calc_2d conf_34

C	-6.0426694448	-2.308324148	-0.413987464
C	-6.7525319323	-1.599886451	0.7353940151
C	-6.3780440999	-0.1161160794	0.4949865744
N	-5.0592195483	-0.1586637394	-0.1395739029
C	-4.7117317126	-1.5661016645	-0.440070402
C	-4.904146007	0.6142984565	-1.3714453074
C	-3.7028572888	-0.0492811699	-2.0303903975
C	-3.888232374	-1.5532081234	-1.7560271835
O	-6.7924531908	-2.0477679104	-1.5905768711
O	-8.1234871089	-1.8721150548	0.6528863808
C	-4.7177563731	2.0987149644	-1.0899597749
C	-6.3891552028	0.7526721346	1.7748055278
O	-4.4633376906	-2.2620949925	-2.8251227738
O	-4.4853318093	2.8496266973	-2.2616189971
N	-7.4879309666	1.6986546983	1.8551825434
O	-9.0812283584	0.1398247184	2.2363970521
C	-8.7591597484	1.3207147407	2.1006225221
C	-9.7823716311	2.4242236915	2.2195075818
H	-4.1010370341	-1.9710818033	0.3785557097
H	-5.9342819565	-3.3879113567	-0.2529366662
H	-6.3325650876	-1.9398442873	1.6952271367
H	-7.121383639	0.2971018144	-0.2035212462
H	-5.7941833763	0.4920896785	-2.0214817067
H	-3.6242408871	0.1472954408	-3.100300801
H	-2.7875412293	0.3118672618	-1.5471380992
H	-2.9161944545	-2.0263428765	-1.5930114327
H	-7.7223972045	-2.047327898	-1.3003318555
H	-8.5834310314	-1.2397132705	1.2448447369
H	-3.837857221	2.2347857224	-0.4545929949
H	-5.5893258581	2.4910130843	-0.5377339897
H	-5.461726038	1.3252516857	1.8087349217
H	-6.4175558951	0.119796189	2.6683622686
H	-5.4255610817	-2.1381305317	-2.786732137
H	-5.2290407068	2.6961959366	-2.8584840575
H	-7.2886989455	2.6785603235	1.7378998157
H	-9.3715605596	3.4255610472	2.0720016236
H	-10.5748182203	2.2506601762	1.4879763193
H	-10.2389550855	2.3700028949	3.2106533307

calc_2d conf_35

C	-6.0490635234	-2.5035971429	-0.8684991064
C	-6.5454842935	-1.8802201993	0.4547269652
C	-6.3629038728	-0.376065721	0.2192786056
N	-5.0498919995	-0.3476142272	-0.4082739138
C	-4.9648094192	-1.5040854164	-1.326025574
C	-4.6659566686	0.8683024298	-1.1334893273
C	-4.1989126252	0.377614649	-2.5163580885
C	-5.0128416897	-0.8915038217	-2.729267961
O	-7.1547807896	-2.6831417992	-1.7333662999
O	-7.8553700778	-2.2764122111	0.7615828745
C	-3.5778435079	1.6420536116	-0.3942754891
C	-6.4373558471	0.449317999	1.495702524
O	-6.3700243027	-0.5506556932	-3.0344569653
O	-3.1256082694	2.7609289241	-1.1307493541
N	-7.7615214295	0.3643798629	2.0668603667

O	-7.966031239	2.5931656711	2.4493732241
C	-8.4445309918	1.467677445	2.4696239001
C	-9.8531103062	1.2103737627	2.9642338197
H	-3.978916471	-1.9772402118	-1.2302170644
H	-5.627447327	-3.4986446655	-0.705510125
H	-5.8930501616	-2.1851373436	1.2811049844
H	-7.1600220081	-0.0276016874	-0.4641554329
H	-5.5467646771	1.5181882472	-1.2591496086
H	-4.3489059223	1.1202666718	-3.3040397235
H	-3.1295868214	0.13873893	-2.4950060427
H	-4.6062464702	-1.5611211854	-3.4964262036
H	-7.1943895763	-1.9125165689	-2.3307129431
H	-8.2493430517	-2.4698309099	-0.1104799523
H	-2.7105753949	0.9897870866	-0.2567907228
H	-3.9296554558	1.9293541437	0.6058060334
H	-6.245364841	1.5089446606	1.3076235417
H	-5.6720731825	0.0930689792	2.19885016
H	-6.4007664261	-0.1606629915	-3.9169569234
H	-3.8176784961	3.433082101	-1.0972288988
H	-8.2284375808	-0.5306858631	2.0039698662
H	-10.1609507214	0.1640887607	2.8970724507
H	-9.9237535267	1.5341677264	4.0055705334
H	-10.5460310352	1.8262359969	2.3860558709

calc_2d conf_36

C	-6.0873007394	-2.2393437744	-0.4301355422
C	-6.8031149682	-1.4909392464	0.6879494615
C	-6.3842449203	-0.0216068199	0.4251245755
N	-5.0493263578	-0.1125726972	-0.1718280527
C	-4.7360753743	-1.5353504823	-0.4360907567
C	-4.8488262928	0.6300220483	-1.4187014662
C	-3.6661221911	-0.0886637084	-2.054870286
C	-3.8830811415	-1.578581561	-1.7320341267
O	-6.7968442354	-1.9817460655	-1.6324543377
O	-8.1771210779	-1.7380960257	0.5847432587
C	-4.5925942526	2.1023275788	-1.1514257379
C	-6.3947922247	0.8752441544	1.6827964424
O	-4.4413690546	-2.3237268373	-2.7849327684
O	-4.3952372218	2.7396630963	-2.3955629828
N	-7.574534253	1.7118210637	1.8258526726
O	-8.9653574903	0.0526414351	2.4807450561
C	-8.7723459144	1.2433269268	2.2307694847
C	-9.8789253952	2.2596655897	2.3809970409
H	-4.1585734138	-1.942018205	0.4055095692
H	-6.0138996772	-3.3180412303	-0.2451510337
H	-6.4101084304	-1.8190465879	1.6626408504
H	-7.0980431364	0.3980402291	-0.2999227559
H	-5.7315375472	0.5490025613	-2.0763100983
H	-3.5891320931	0.0752922584	-3.1300540437
H	-2.7389542931	0.2627422803	-1.5862583782
H	-2.9224411812	-2.0592380414	-1.5285503955
H	-7.7359685235	-1.9674670368	-1.3790661319
H	-8.6162403041	-1.1990809781	1.2750322253
H	-3.7124195506	2.1882696092	-0.4957384838
H	-5.4514217151	2.5428833612	-0.6165502972
H	-5.5307559299	1.5398098517	1.642301678
H	-6.2956802519	0.2674690853	2.5879427262
H	-5.3975121952	-2.1553758617	-2.7971560928

H	-4.148027069	3.6562888268	-2.2284009091
H	-7.4944932442	2.6901260808	1.6015565198
H	-9.5740685724	3.2838665264	2.1543790497
H	-10.7062200879	1.9794327961	1.724680428
H	-10.2512896786	2.2179597995	3.4071736382

calc_2d conf_37

C	-6.2606958986	-2.1180172632	-0.347343491
C	-7.067594402	-1.2308180028	0.6063024784
C	-6.4415380678	0.1735502605	0.4033857353
N	-5.1164299513	-0.0392222048	-0.1850750419
C	-4.8730223921	-1.491030328	-0.2530814057
C	-4.8877799137	0.5191689578	-1.5212813873
C	-3.7184086559	-0.3115939824	-2.0388538994
C	-3.9100507569	-1.7244533703	-1.4472490105
O	-6.7986101278	-1.9444994585	-1.6458818582
O	-8.4296964014	-1.3116239735	0.2538257096
C	-4.5922795153	2.0111760003	-1.4502587622
C	-6.2705813943	0.9722682556	1.7031813297
O	-4.3512725837	-2.6960728815	-2.3624008816
O	-4.2914277339	2.563662458	-2.7142685925
N	-7.4119572503	1.002149814	2.6122574116
O	-9.0833820245	1.2268304331	1.0930174006
C	-8.700757195	1.1998210035	2.2646837638
C	-9.6808187224	1.3656185722	3.4029548522
H	-4.4195102965	-1.8363511734	0.6866842376
H	-6.2744957534	-3.1768455351	-0.0598994486
H	-6.919578151	-1.5667497587	1.6437080122
H	-7.0768492434	0.7373431165	-0.2864873261
H	-5.7694869109	0.3609915407	-2.168972254
H	-3.6644283347	-0.3504798086	-3.1277349466
H	-2.7808828999	0.1225994392	-1.6741400477
H	-2.9524200861	-2.1042757136	-1.0831358048
H	-7.751240046	-1.7931059268	-1.4957057862
H	-8.8302214381	-0.4339049777	0.4164180484
H	-3.7089858389	2.1686866029	-0.824821203
H	-5.4322930703	2.5440291281	-0.9749177125
H	-5.972797716	1.996143022	1.4480480681
H	-5.4404185947	0.5269561349	2.2573243559
H	-5.2834914337	-2.5067266675	-2.5591553614
H	-5.0662407628	2.4403469919	-3.2772920247
H	-7.1950801066	1.0258934782	3.5959073872
H	-10.4429627498	0.5868147249	3.3248298084
H	-9.2263020695	1.3220228383	4.395269666
H	-10.1870115108	2.3266982536	3.2851579808

calc_2d conf_38

C	-6.1321059088	-2.5583991595	-1.0243446451
C	-7.3522645926	-2.0785397613	-0.2330274138
C	-7.0694836792	-0.5647090439	-0.0209337768
N	-5.6152569417	-0.3946957532	-0.1623945333
C	-5.0196712378	-1.7253839891	-0.3795896047
C	-5.1342539001	0.4724960669	-1.23624833
C	-3.6767042829	0.0358806751	-1.353784672
C	-3.7210103046	-1.4857792457	-1.1761908196
O	-6.4099282237	-2.1945666889	-2.3628133869
O	-8.5663130549	-2.3573564897	-0.8688452135

C	-5.3116341873	1.9525792251	-0.947639901
C	-7.5510731578	-0.0897229404	1.3472526885
O	-3.7882713945	-2.1971458805	-2.4142058889
O	-4.646423762	2.2933977192	0.2605254312
N	-7.1730593185	1.2769371776	1.6056031852
O	-9.2227525842	1.9684282746	2.3118453904
C	-8.0456593914	2.2027359504	2.0801901948
C	-7.4537490345	3.5799739002	2.3138862466
H	-4.783229209	-2.1867155142	0.5890075384
H	-5.9643067761	-3.6395075595	-0.9330684236
H	-7.3816495134	-2.5840773025	0.7393890019
H	-7.5931573135	-0.0024537004	-0.8046708349
H	-5.662006114	0.2710861319	-2.1848927241
H	-3.2149896706	0.3283654022	-2.3025728499
H	-3.1095165152	0.4908930138	-0.5373911908
H	-2.8505679768	-1.8503265425	-0.6193528661
H	-5.5705857568	-2.2875460818	-2.8439789273
H	-8.3911748133	-2.2214260571	-1.8138858555
H	-6.3821841114	2.187972105	-0.8767777554
H	-4.8992022079	2.51801539	-1.7949897116
H	-7.1269512761	-0.7475949575	2.1191866603
H	-8.6393705813	-0.1514214006	1.4170702889
H	-2.9830504382	-2.0110251447	-2.9123927228
H	-4.597481045	3.2556109401	0.3088272069
H	-6.2016575009	1.5238478576	1.4467061244
H	-6.4144713756	3.6674175548	1.988141775
H	-8.0638614091	4.3185675402	1.7888795138
H	-7.5099714391	3.8121882883	3.3804808015

calc_2d conf_39

C	-6.1715936243	-2.4790635999	-1.0653475296
C	-7.4265365183	-1.9164285263	-0.3983594332
C	-7.0613850794	-0.4237629769	-0.157070357
N	-5.5918928968	-0.3516081109	-0.1562042502
C	-5.0773136378	-1.7243905956	-0.3075018472
C	-4.942201478	0.4772872748	-1.1679040801
C	-3.5243656338	-0.0941035817	-1.1971783019
C	-3.6945075785	-1.5972894354	-0.9863405399
O	-6.2749407064	-2.0967421723	-2.4238700092
O	-8.5894875454	-2.1102499692	-1.1517098274
C	-4.929073953	1.9617665659	-0.8356238229
C	-7.6945743345	0.0654338086	1.139583642
O	-3.6134863919	-2.2530991175	-2.2595213761
O	-6.1909908278	2.6009850147	-0.9714566409
N	-7.4975183225	1.4783185126	1.3507543857
O	-7.8040835521	1.3685582876	3.5939350984
C	-7.5515412515	2.0221618491	2.5906107189
C	-7.2844424493	3.5140175608	2.6519749545
H	-4.9749018165	-2.1899414544	0.6830288382
H	-6.0961185779	-3.5716453487	-0.9630429443
H	-7.5878825053	-2.4149242638	0.5644607831
H	-7.4598835905	0.1548604681	-1.0006633994
H	-5.412978464	0.3453640816	-2.1610522428
H	-2.9883407632	0.1123558079	-2.126012226
H	-2.9482258646	0.3257887928	-0.3658805204
H	-2.9019940955	-1.9979898602	-0.3469385234
H	-5.3765398235	-2.1725824872	-2.7927618525
H	-8.3187585929	-1.9729433123	-2.0734537052

H	-4.1846373964	2.4697933718	-1.4653499875
H	-4.6417967727	2.0898138337	0.2104384523
H	-7.2675147341	-0.472080051	1.9923668562
H	-8.7656531041	-0.1798059141	1.1109887304
H	-3.4652038276	-3.1941726293	-2.0998506579
H	-6.4842501473	2.500299073	-1.8863501517
H	-7.2338197321	2.0453820498	0.5530103464
H	-6.9853254257	3.9448967959	1.6932083602
H	-8.187760024	4.0205721381	3.0022264706
H	-6.5024789609	3.7001681201	3.3918565898

calc_2d conf_40

C	-6.2305595872	-2.3930119586	-0.7951928462
C	-6.9784188983	-1.6964611378	0.3427911625
C	-6.514845576	-0.2288830483	0.1970558521
N	-5.1230976604	-0.3369663688	-0.2290365892
C	-4.855601012	-1.7290557444	-0.6610617901
C	-4.6516720516	0.5674682908	-1.2708882147
C	-3.4382257301	-0.1805887518	-1.8153555391
C	-3.9075298096	-1.6325803906	-1.8706030523
O	-6.9630257927	-2.047043667	-1.9507749347
O	-8.3734587454	-1.8582211897	0.2729361164
C	-4.3061164273	1.9452507747	-0.7349472747
C	-6.6872266952	0.5598419386	1.4913723948
O	-4.6156828888	-1.9220390422	-3.0773326556
O	-3.7407587985	2.6790765799	-1.8040923827
N	-8.0866905782	0.6285540578	1.8489861843
O	-7.9755843351	2.7320099684	2.6898165441
C	-8.631302991	1.7377959117	2.411445097
C	-10.1207057339	1.6640540464	2.6802095318
H	-4.3260768508	-2.2614182199	0.1420004344
H	-6.1792977954	-3.4830921833	-0.6702901326
H	-6.6598029998	-2.0946501782	1.3127468357
H	-7.1324644434	0.2367070032	-0.5883162219
H	-5.3995519328	0.6873960783	-2.0749364352
H	-3.0938542022	0.2010551938	-2.7803162115
H	-2.6083533722	-0.0906246483	-1.105594425
H	-3.0787595978	-2.3441112125	-1.7779049199
H	-6.336604684	-2.0437769949	-2.6951246607
H	-8.5814726944	-1.7776457557	-0.6733473136
H	-3.6044910918	1.8289409669	0.1047090312
H	-5.2101057196	2.438470384	-0.3518221596
H	-6.3264854635	1.5861895165	1.3977683208
H	-6.0934765081	0.0827818906	2.2835675733
H	-4.1056964009	-1.5804236051	-3.8219554587
H	-3.5886147849	3.5807485507	-1.4983842109
H	-8.6709508239	-0.152816938	1.5824963575
H	-10.5839813166	0.7304856315	2.3516119391
H	-10.290021589	1.7849270971	3.7530610387
H	-10.6094344175	2.5026571541	2.1787030152

calc_2d conf_41

C	-6.3659501088	-2.3802829183	-0.8753400789
C	-7.1058044039	-1.8137675258	0.3392509818
C	-6.5392564379	-0.3812791714	0.4304703248
N	-5.143328687	-0.5211133601	0.0310479972
C	-4.9537537019	-1.8471456494	-0.6024941612

C	-4.5991918277	0.4957633734	-0.8629538417
C	-3.4132373749	-0.2331464024	-1.485261158
C	-3.9556697192	-1.6357320177	-1.7569774769
O	-7.0281095226	-1.8051334942	-1.9815351739
O	-8.5038164636	-1.8684998641	0.2250630968
C	-4.2068108544	1.7787837629	-0.1392033036
C	-6.7202964983	0.2352203349	1.8181880316
O	-4.6330440961	-1.7172119731	-3.0123588151
O	-3.5603207242	2.686842644	-1.0128969179
N	-8.1013596328	0.5911768852	2.0603021813
O	-7.7617420734	2.8092168177	1.6882848573
C	-8.5259137056	1.8753330219	1.8892695025
C	-10.0216559385	2.0832981667	1.9986306251
H	-4.4929504098	-2.5324093916	0.123160833
H	-6.3950551993	-3.4774566271	-0.9220136027
H	-6.8386247368	-2.3778576645	1.24064767
H	-7.0888057715	0.2421205396	-0.2931791287
H	-5.3254348015	0.7501917185	-1.6597964348
H	-3.022920885	0.2600160618	-2.3795780535
H	-2.598695922	-0.2892757782	-0.7543670319
H	-3.168631172	-2.3987233556	-1.7389699927
H	-6.3827376041	-1.7606949894	-2.7074458263
H	-8.6837722919	-1.6262029247	-0.6984490575
H	-3.4909326417	1.5340736271	0.6513153428
H	-5.0824065693	2.2424307325	0.3332725307
H	-6.1423919218	1.1536324662	1.9163502639
H	-6.3722280708	-0.4630078484	2.5881035938
H	-4.0445746367	-1.380961333	-3.6992416753
H	-4.2446215495	3.1315075827	-1.5273667835
H	-8.782229262	-0.1502948456	1.9778916801
H	-10.3846262353	2.5329337381	1.071155395
H	-10.5812365508	1.1657726078	2.1953914478
H	-10.2168619975	2.7968830539	2.8026321585

calc_2d conf_42

C	-5.7661892523	-2.4928316375	-0.5006309051
C	-6.9484409956	-1.7615954592	0.1956337856
C	-6.4248822054	-0.3438777335	0.4812927101
N	-5.0519846397	-0.2961853168	-0.0411083842
C	-4.8801121914	-1.3604763599	-1.0311666777
C	-4.7151062057	0.9575476219	-0.7187774659
C	-5.0755258829	0.7586992101	-2.2097216773
C	-5.2407732458	-0.7530975858	-2.4102534608
O	-6.2264503471	-3.3872049889	-1.4961366192
O	-8.0990154	-1.7901906829	-0.6229612066
C	-3.2334448645	1.2792502867	-0.5145331618
C	-6.4129987964	0.0494884599	1.9609029828
O	-6.5881749424	-1.0242399837	-2.8035347709
O	-2.8293067607	2.4401479415	-1.2091812408
N	-7.7269671771	0.3453623113	2.4854164457
O	-7.7187944508	2.4541921789	1.6659175168
C	-8.3072831231	1.5552010995	2.2495773567
C	-9.7236019409	1.7162154114	2.7566296306
H	-3.8284284012	-1.6694762761	-1.0587608733
H	-5.1960939444	-3.0549103507	0.2482199104
H	-7.2387211972	-2.284930127	1.1115283411
H	-7.0853536329	0.3659764898	-0.0382584788
H	-5.3027659088	1.7677229761	-0.2693955146

H	-6.0236171021	1.2387106749	-2.4663439268
H	-4.306700536	1.1914098544	-2.8538281555
H	-4.5723606029	-1.1399974641	-3.1877799127
H	-7.1954300145	-3.3946823609	-1.3785958981
H	-7.8630396046	-1.2653947904	-1.417034599
H	-2.6123610688	0.4688604676	-0.908569276
H	-3.0289276547	1.3516886939	0.562743593
H	-5.8043897625	0.9486709285	2.0761908607
H	-5.952649737	-0.7419294225	2.55984309
H	-6.6100484415	-1.9931805729	-2.8939826219
H	-3.308041435	3.1888118829	-0.8308168415
H	-8.2855523912	-0.3987850202	2.8698932405
H	-10.4024246215	1.7682892284	1.9009757431
H	-10.0498137923	0.9073365775	3.4150901406
H	-9.7972277294	2.665403838	3.2905163209

calc_2d conf_43

C	-6.2612228921	-2.4872152827	-0.9576251495
C	-7.6191601618	-1.9235863284	-0.521663556
C	-7.339070302	-0.4119886439	-0.2862231215
N	-5.8848590321	-0.2658422977	-0.1790919237
C	-5.2957735296	-1.6123616714	-0.1651112307
C	-5.2170259692	0.5162660925	-1.2322191291
C	-3.7850330186	-0.0192368446	-1.2185148761
C	-3.8515500064	-1.4748779863	-0.7081241608
O	-6.1097629239	-2.2584059239	-2.3665603929
O	-8.6596711754	-2.1821133807	-1.4327534298
C	-5.3021615816	2.0004012567	-0.8894216089
C	-8.096257706	0.0733189532	0.9529017161
O	-3.5077411193	-2.4584890648	-1.6541389404
O	-4.7766255194	2.2679900906	0.384882306
N	-8.0307885625	1.4959317899	1.1825419774
O	-6.565188272	1.361362788	2.9063397877
C	-7.2581354683	2.0434452673	2.1655040002
C	-7.2779194304	3.5518075732	2.2436579391
H	-5.2924592223	-2.0010667327	0.8616607813
H	-6.1435958877	-3.5527257577	-0.737318914
H	-7.9248182693	-2.3974279061	0.4173088384
H	-7.6990356489	0.1476862317	-1.1624611913
H	-5.6848143752	0.3476374573	-2.2165864897
H	-3.316265837	0.0146098579	-2.204697818
H	-3.1876850208	0.5919616451	-0.5366231726
H	-3.1390743654	-1.6143548313	0.107362188
H	-6.5825511766	-2.970499293	-2.8176543671
H	-8.4051436171	-1.7374181847	-2.2538181198
H	-6.3513701532	2.3316413116	-0.9645883826
H	-4.7249676677	2.5839763546	-1.61400793
H	-7.6713665287	-0.3983990653	1.8422026905
H	-9.1453544277	-0.2346263621	0.8645174785
H	-4.2111077782	-2.441877027	-2.3231642555
H	-5.1050267036	1.5542574385	0.9608860898
H	-8.5863210477	2.1073132839	0.6063902109
H	-7.2355302497	3.8509075736	3.2915685013
H	-6.374546682	3.9170515914	1.7467173145
H	-8.1530186705	4.0049460271	1.7699263404

calc_2d conf_44

C	-6.30723933	-2.3558560508	-0.8909111236
C	-7.6360985904	-1.5228979765	-0.8383191228
C	-7.2819377599	-0.2714890761	-0.0010299378
N	-5.8299390047	-0.1935521339	0.0588487908
C	-5.358571211	-1.5789708745	0.0528930973
C	-5.1895845551	0.4583232154	-1.1021033458
C	-3.772754468	-0.1163365903	-1.0747161689
C	-3.8730450656	-1.4922212816	-0.3650372567
O	-5.8243521011	-2.3966340667	-2.2169283492
O	-8.0676100625	-1.2151618455	-2.16008108
C	-5.2481227893	1.9778022442	-1.0343168548
C	-7.9051771586	-0.3655664779	1.4033275239
O	-3.4075941756	-2.591356985	-1.0995142987
O	-6.5373147534	2.496959681	-1.2831417461
N	-7.3523317675	0.5634346458	2.3666414851
O	-7.8933463616	2.4255953408	1.2045954848
C	-7.3367390836	1.8987433892	2.1673755543
C	-6.6084069359	2.7200224178	3.2056569241
H	-5.4590198154	-2.0121098781	1.0569375511
H	-6.4684377672	-3.3812773052	-0.5370238326
H	-8.4407233239	-2.108532295	-0.3817632223
H	-7.6722473481	0.6320280003	-0.4695954429
H	-5.6763126692	0.1599859612	-2.0446244376
H	-3.3583419102	-0.2373614454	-2.0779306559
H	-3.1026696845	0.5494807753	-0.5193706053
H	-3.2574703196	-1.4762446211	0.5378013186
H	-6.5638041458	-2.0709016392	-2.7672617964
H	-7.9131614973	-0.2740691127	-2.3181410943
H	-4.5842595393	2.3812196611	-1.8081857489
H	-4.8564214884	2.3048463063	-0.0603673593
H	-7.7687172563	-1.3668164744	1.8217938485
H	-8.9834143071	-0.1973322707	1.3140691674
H	-4.0073008787	-2.6811396537	-1.8587090168
H	-6.9982890909	2.6089692218	-0.4324946058
H	-6.7440081665	0.1904549764	3.0766361922
H	-6.3028484412	2.1481950403	4.0848029543
H	-5.7209036816	3.1645906296	2.7472670195
H	-7.258483495	3.5391765478	3.5189201904

calc_2d conf_45

C	-6.1122945284	-2.3623711316	-0.4481618525
C	-7.4594993204	-1.6423387851	-0.7279505487
C	-7.2776750161	-0.2691404437	-0.0784196306
N	-5.8594615041	0.0622028818	-0.2567155818
C	-5.119917153	-1.1999220964	-0.1050959344
C	-5.4827346387	0.699193547	-1.539971592
C	-4.4686781913	-0.2426832195	-2.197173639
C	-3.9008948647	-1.0138472627	-1.0108358514
O	-5.801454786	-3.1482870109	-1.5795092147
O	-7.6271830441	-1.4634704269	-2.1129462195
C	-4.9027622377	2.085930237	-1.2574816089
C	-7.6409293233	-0.2725746024	1.407295839
O	-3.3113192637	-2.2744256072	-1.3114858675
O	-4.4791917755	2.7551163996	-2.4259868919
N	-7.2107752682	0.9557778113	2.0212413885
O	-8.9963435744	1.1694711652	3.4013188363
C	-7.9317890703	1.5948816884	2.9786751099
C	-7.3243027738	2.8839560324	3.4938469723

H	-4.798754889	-1.3245128065	0.9343958141
H	-6.2104197789	-3.014315128	0.4287365584
H	-8.3074766571	-2.1991675223	-0.3035270291
H	-7.8909722547	0.4794250908	-0.5873695916
H	-6.36488183	0.8040961135	-2.1806066269
H	-4.9821606931	-0.945253766	-2.8589284766
H	-3.7173474649	0.3064466888	-2.7716193554
H	-3.1648321401	-0.3980313798	-0.4776372439
H	-4.8299062355	-3.1550338288	-1.6669750516
H	-7.1311724876	-2.2006735609	-2.5136217751
H	-4.0156901653	1.9933124144	-0.6233495704
H	-5.6425756111	2.6747054967	-0.6941256039
H	-7.1903349462	-1.1385423007	1.9150932293
H	-8.7216790141	-0.3558617788	1.5411484297
H	-2.6097102724	-2.1330570891	-1.9596296979
H	-5.2615031265	2.932025063	-2.9638130858
H	-6.3322759287	1.3237248069	1.6858201822
H	-7.1406797236	2.7820167953	4.5662800195
H	-6.3904934323	3.1627878562	2.9990433407
H	-8.0509270151	3.6894396589	3.3650418213

calc_2d conf_46

C	-6.3115887871	-2.2585162277	-0.3125425798
C	-7.5914965994	-1.6370961682	-0.9388834552
C	-7.6133869123	-0.2154617683	-0.3636833091
N	-6.2163719327	0.1782867088	-0.2482312564
C	-5.4841471122	-1.0212290977	0.1753036804
C	-5.5782100876	0.7560430573	-1.4480713823
C	-4.3847015905	-0.152080269	-1.765683711
C	-4.0920267634	-0.8186749773	-0.4248438762
O	-5.7102179959	-3.0783067041	-1.295492135
O	-7.4536064385	-1.5577843103	-2.3364429244
C	-5.1596709025	2.195561874	-1.1460789044
C	-8.3206009806	-0.1767000481	1.0007640015
O	-3.3966354458	-2.0607376118	-0.4944403058
O	-4.5072095534	2.8228103735	-2.231111158
N	-8.1809818885	1.0839100189	1.6848902475
O	-6.548489599	0.3588875092	3.0916711075
C	-7.2068535144	1.2741524524	2.6219928404
C	-7.006605301	2.7104063029	3.0563661372
H	-5.4331646761	-1.0473214013	1.2673950943
H	-6.5780387303	-2.8740523149	0.5553788058
H	-8.4890924804	-2.2159624734	-0.674015049
H	-8.1291330143	0.4592893042	-1.0553828952
H	-6.2794245597	0.7569112424	-2.291221798
H	-4.6810409357	-0.92433264	-2.4809725974
H	-3.5416351635	0.4103503125	-2.1773689862
H	-3.5321970939	-0.1354833651	0.2264038286
H	-4.7457749343	-3.0287462119	-1.1544847156
H	-6.8202671854	-2.2670413407	-2.5540785806
H	-4.4479770252	2.2060122088	-0.3154212018
H	-6.0442583836	2.7628059217	-0.8181838674
H	-7.9051318181	-0.929213374	1.6751208634
H	-9.3825518572	-0.4069192317	0.8617410557
H	-2.5569082811	-1.9114094375	-0.9467060852
H	-5.1345697385	2.8655572066	-2.9640626144
H	-8.5788882679	1.9017202583	1.2499787511
H	-7.8794953831	3.3434574686	2.8754575583

H	-6.7622322534	2.7253971294	4.118946608
H	-6.1554168133	3.1295096237	2.510992809

calc_2d conf_47

C	-6.1101356391	-1.6428247685	0.2096249742
C	-7.3173104531	-0.7051504784	-0.0476903158
C	-6.7062139613	0.6975767841	0.0102605229
N	-5.3581091023	0.5608750205	-0.5379545662
C	-4.8599922742	-0.7452956394	-0.083322348
C	-5.2148014791	0.6581832386	-2.0063177808
C	-4.6219398562	-0.6795084813	-2.4613606542
C	-3.9155029297	-1.1792194189	-1.2064827406
O	-6.2706601147	-2.7845085081	-0.6108207618
O	-7.8161827763	-0.9092813895	-1.3513118837
C	-4.3132941489	1.8475834126	-2.3413280691
C	-6.6104385178	1.2797440023	1.4273867704
O	-3.6766240185	-2.5819187	-1.1427469357
O	-4.0884727172	1.9965043625	-3.728887692
N	-7.8900564608	1.4811720401	2.0675493111
O	-7.7679345208	-0.3762629076	3.3620787565
C	-8.3762277199	0.6222814776	3.0061820659
C	-9.7304620958	0.9791256196	3.5806954288
H	-4.2989273599	-0.6307554881	0.8504030641
H	-6.0983829338	-1.946323859	1.2622807765
H	-8.1053840686	-0.8626645439	0.6974406114
H	-7.2933580486	1.378897612	-0.6144179444
H	-6.1943462426	0.8108116532	-2.473886573
H	-5.4241100164	-1.3785318656	-2.7127331488
H	-3.9629410516	-0.5608408	-3.3262393255
H	-2.9604551463	-0.6532984268	-1.0772289229
H	-5.3772472028	-3.0822830329	-0.8629154589
H	-7.5818750627	-1.8338787627	-1.5526564158
H	-3.3278103578	1.7062979127	-1.8881477702
H	-4.7418897251	2.7577348174	-1.8960558859
H	-6.0705289143	2.2297236009	1.3726287576
H	-6.0432638879	0.613267287	2.080770269
H	-3.1674569134	-2.8353572462	-1.9228717811
H	-4.9390544396	2.1891193298	-4.1435630308
H	-8.4522846431	2.2690954137	1.7900649054
H	-10.1168846831	1.9438636722	3.2423520737
H	-10.4446727415	0.1976098687	3.3091019574
H	-9.6557677752	0.9864371912	4.6701197599