

Supporting Information

Verbenanone, an octahydro-5H-chromen-5-one from a Hawaiian-Plant Associated Fungus FT431

Chunshun Li^{a,b}, Ariel M. Sarotti^c, James Turkson^b, and Shugeng Cao^{a,b,*}

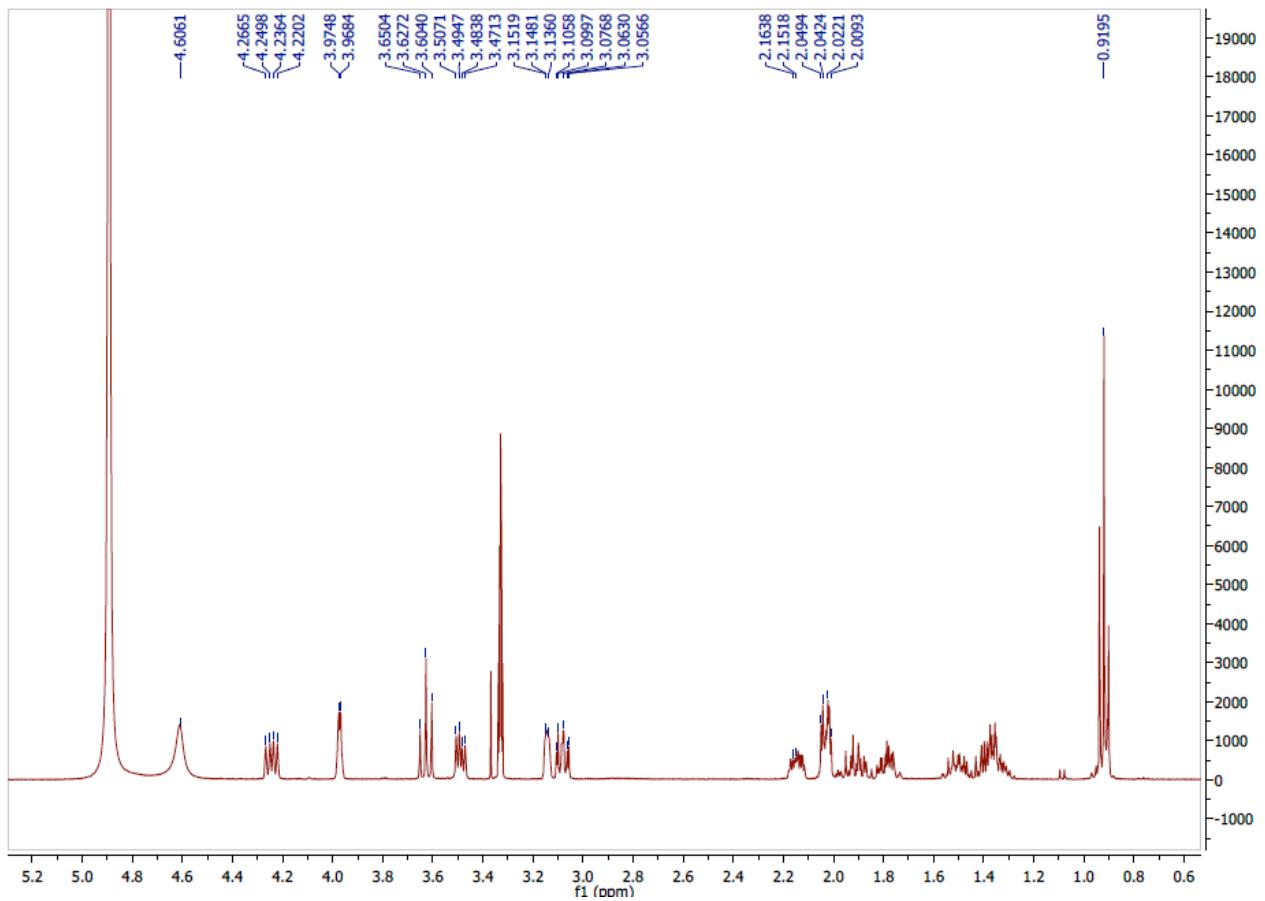
^aDepartment of Pharmaceutical Sciences, Daniel K. Inouye College of Pharmacy, University of Hawaii at Hilo, 200 West Kawili Street, Hilo, Hawai'i 96720, United States

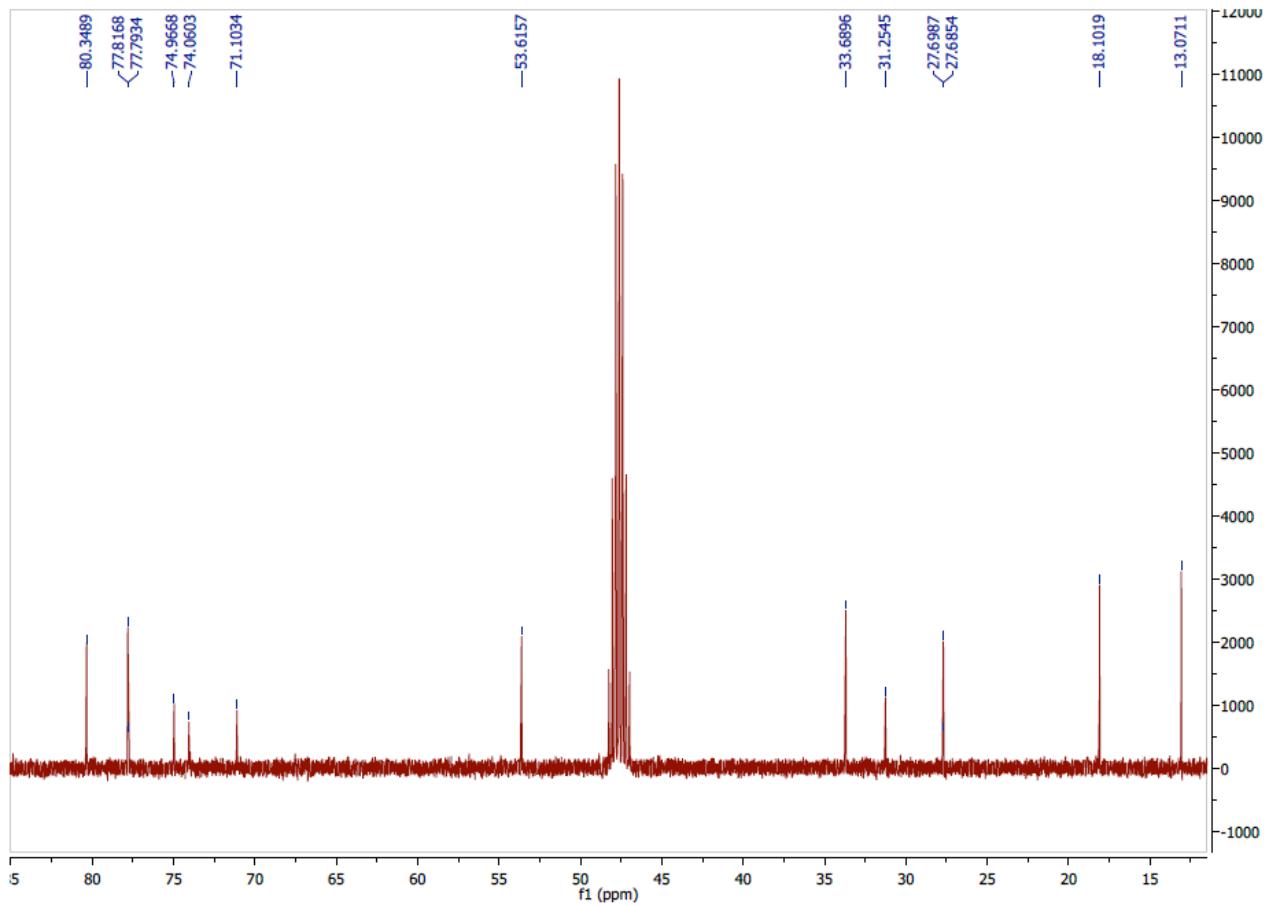
^b Cancer Biology, University of Hawaii Cancer Center, 701 Ilalo Street, Honolulu, Hawai'i 96813, United States

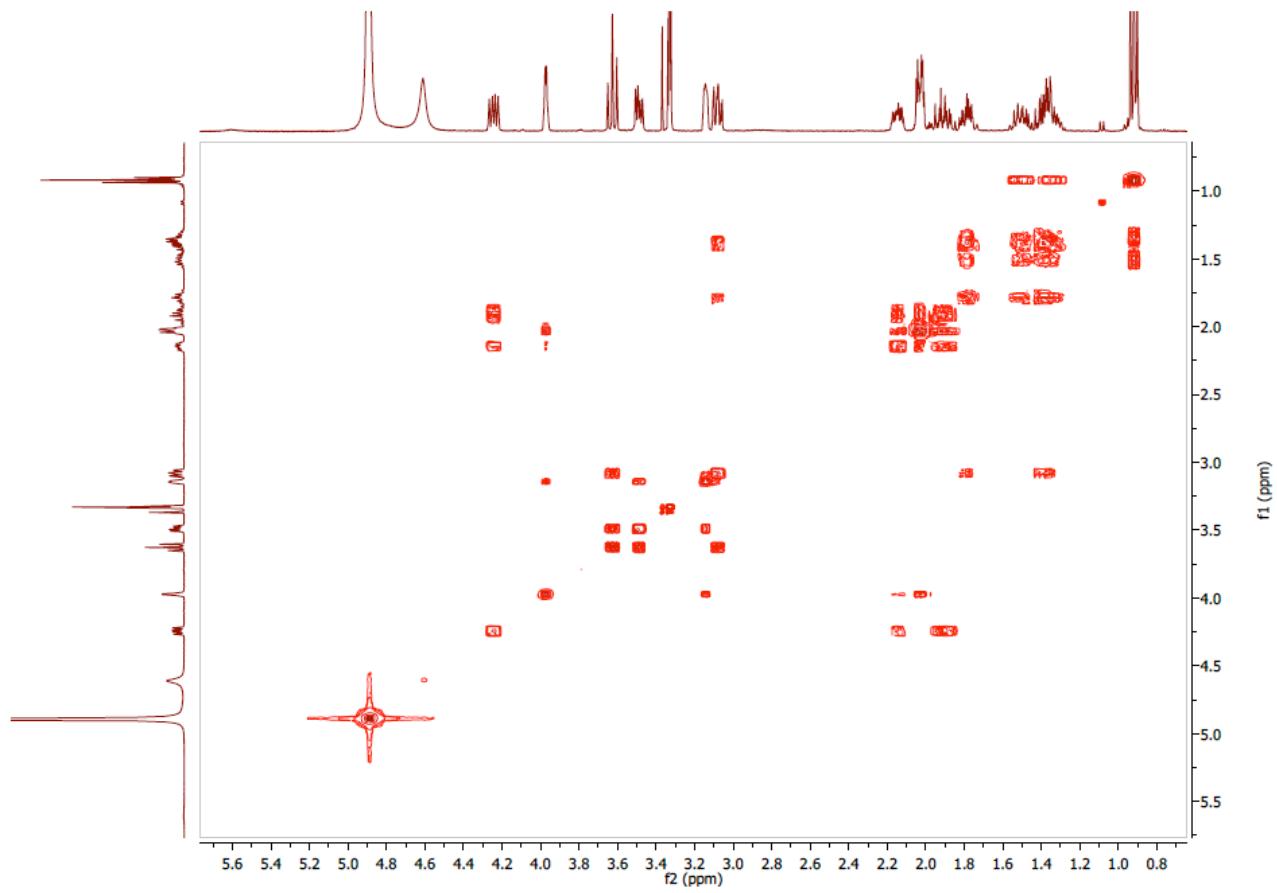
^c Instituto de Química Rosario (CONICET), Facultad de Ciencias Bioquímicas y Farmacéuticas, Universidad Nacional de Rosario , Suipacha 531, Rosario 2000, Argentina.

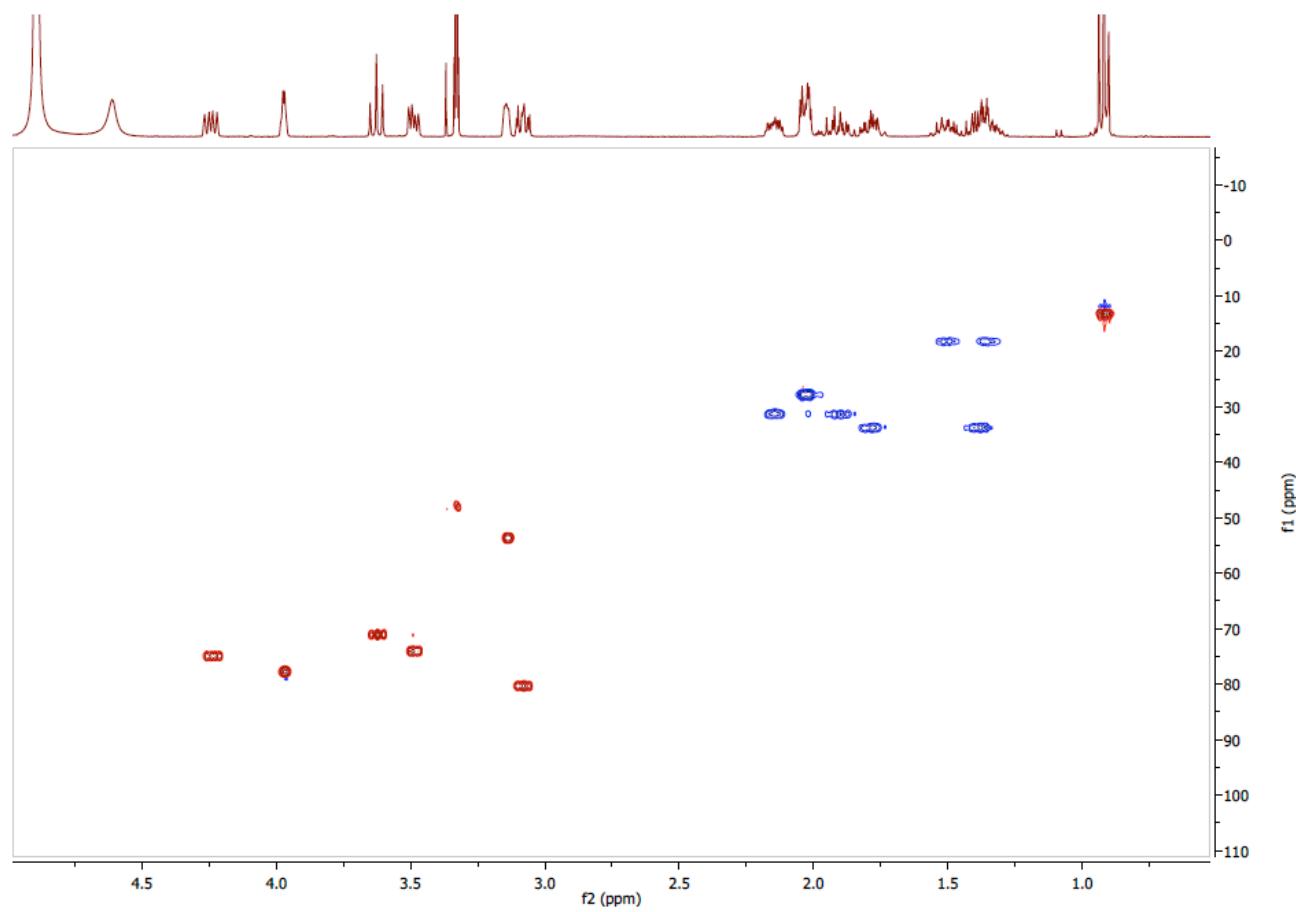
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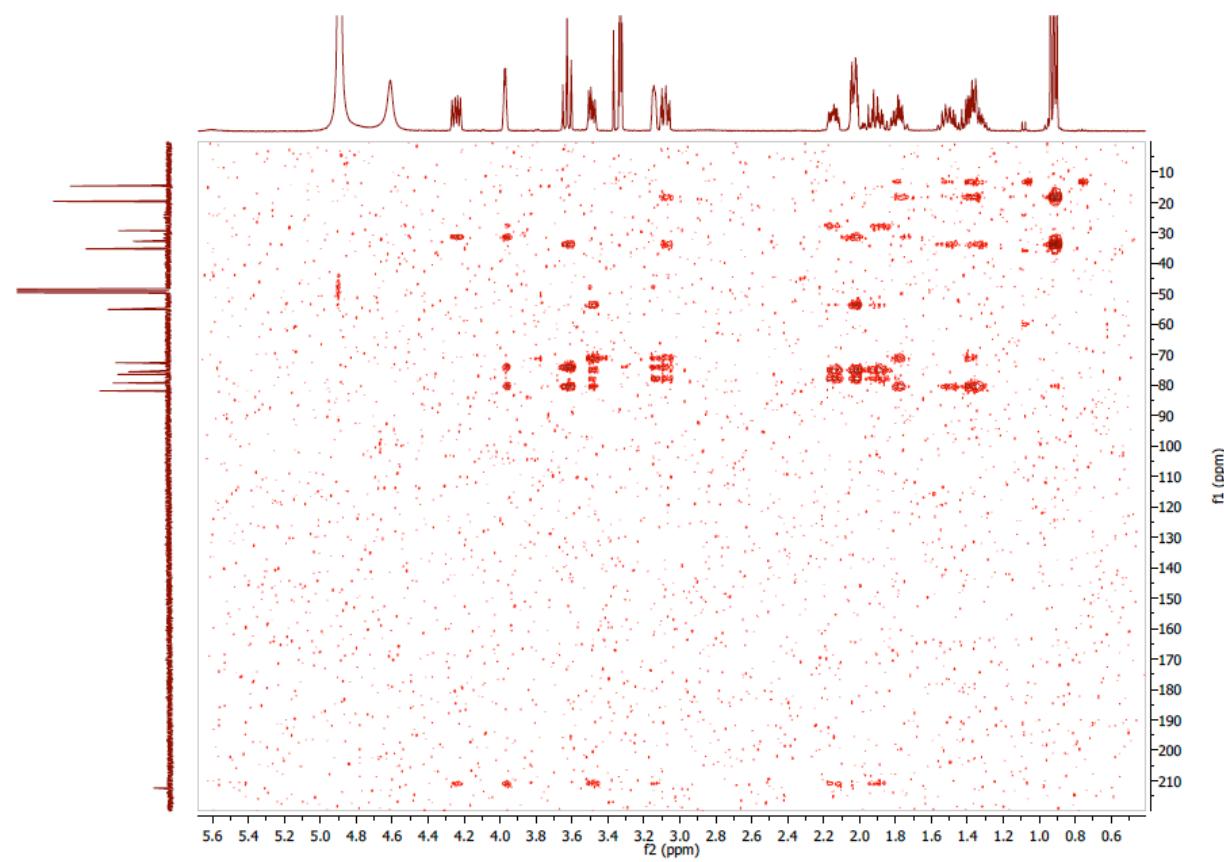
• <i>Figure S1. ¹H NMR spectrum of compound 1</i>	S2
• <i>Figure S2. ¹³C NMR spectrum of compound 1</i>	S3
• <i>Figure S3. ¹H-¹H COSY spectrum of compound 1</i>	S4
• <i>Figure S4. HSQC spectrum of compound 1</i>	S5
• <i>Figure S5. HMBC spectrum of compound 1</i>	S6
• <i>Figure S6. ROESY spectrum of compound 1</i>	S7
• <i>Figure S7. HRMS of compound 1</i>	S8
• <i>Figure S8. ¹H NMR spectrum of 1a (R-MTPA ester of compound 1)</i>	S9
• <i>Figure S9. 1H-1H COSY spectrum of 1a (R-MTPA ester of compound 1)</i>	S10
• <i>Figure S10. ¹H NMR spectrum of 1b (S-MTPA ester of compound 1)</i>	S11
• <i>Figure S11. 1H-1H COSY spectrum of 1b (S-MTPA ester of compound 1)</i>	S12
• <i>Figure S12. IR spectrum of compound 1</i>	S13
• <i>Computational Methods</i>	S14
• <i>Figure S13. Structures of Isomers 1-32</i>	S15
• <i>Table S1. Calculated shielding tensors of Isomers 1-32</i>	S16-S17
• <i>Table S2. Calculated (scaled) chemical shifts of Isomers 1-32</i>	S18-S19
• <i>Table S3. DP4+ Results</i>	S20
• <i>Cartesian Coordinates</i>	S21-S29

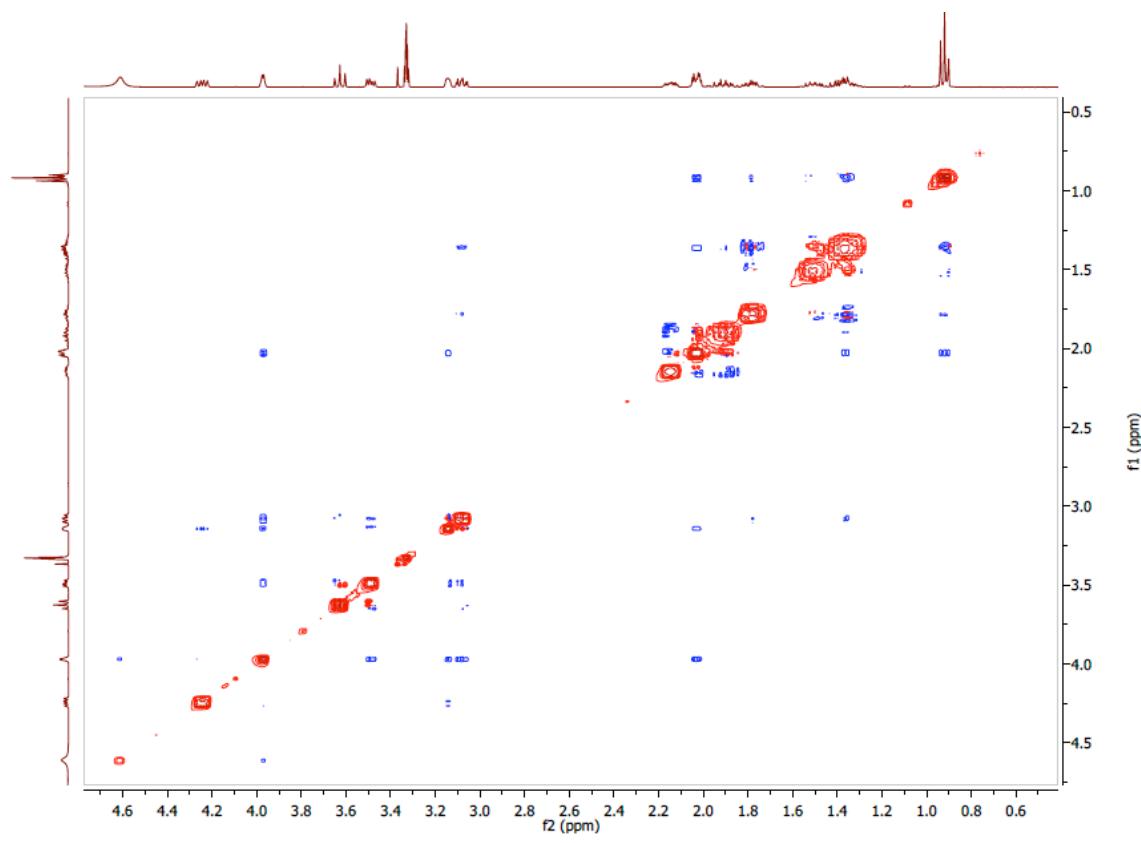




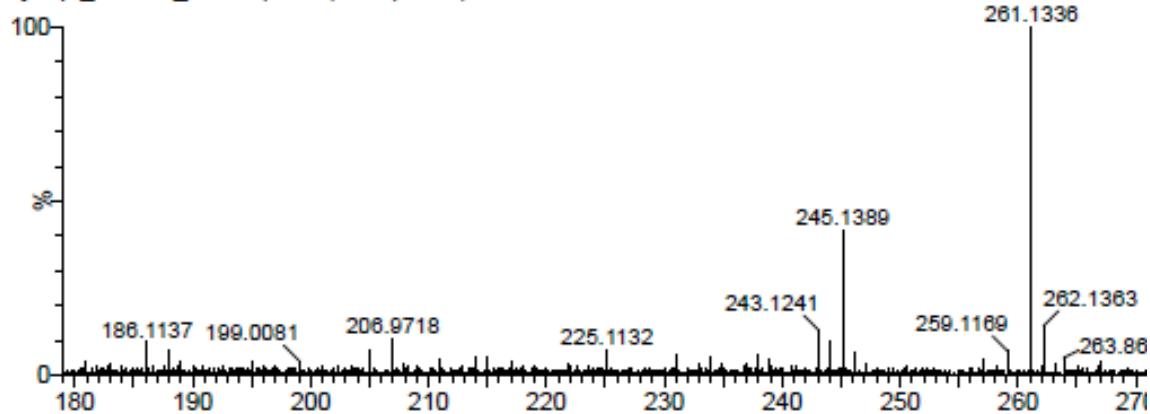


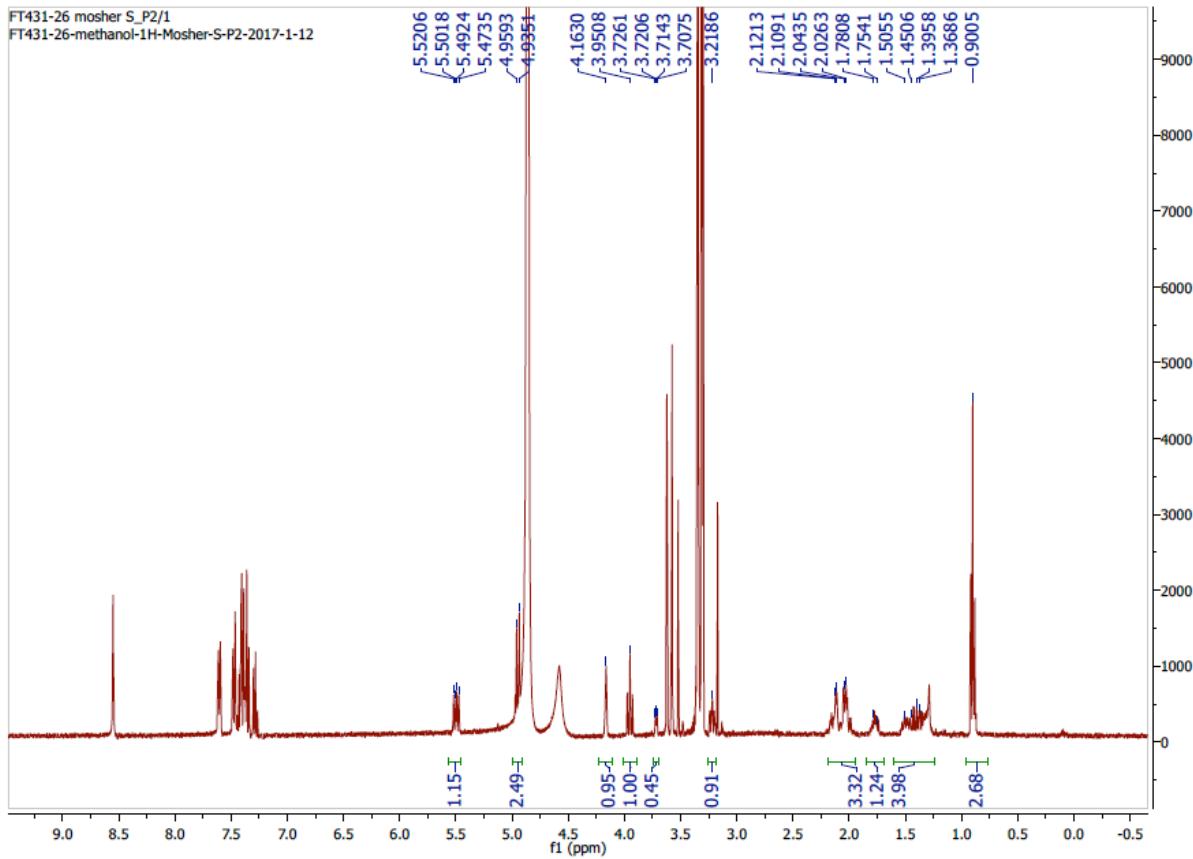


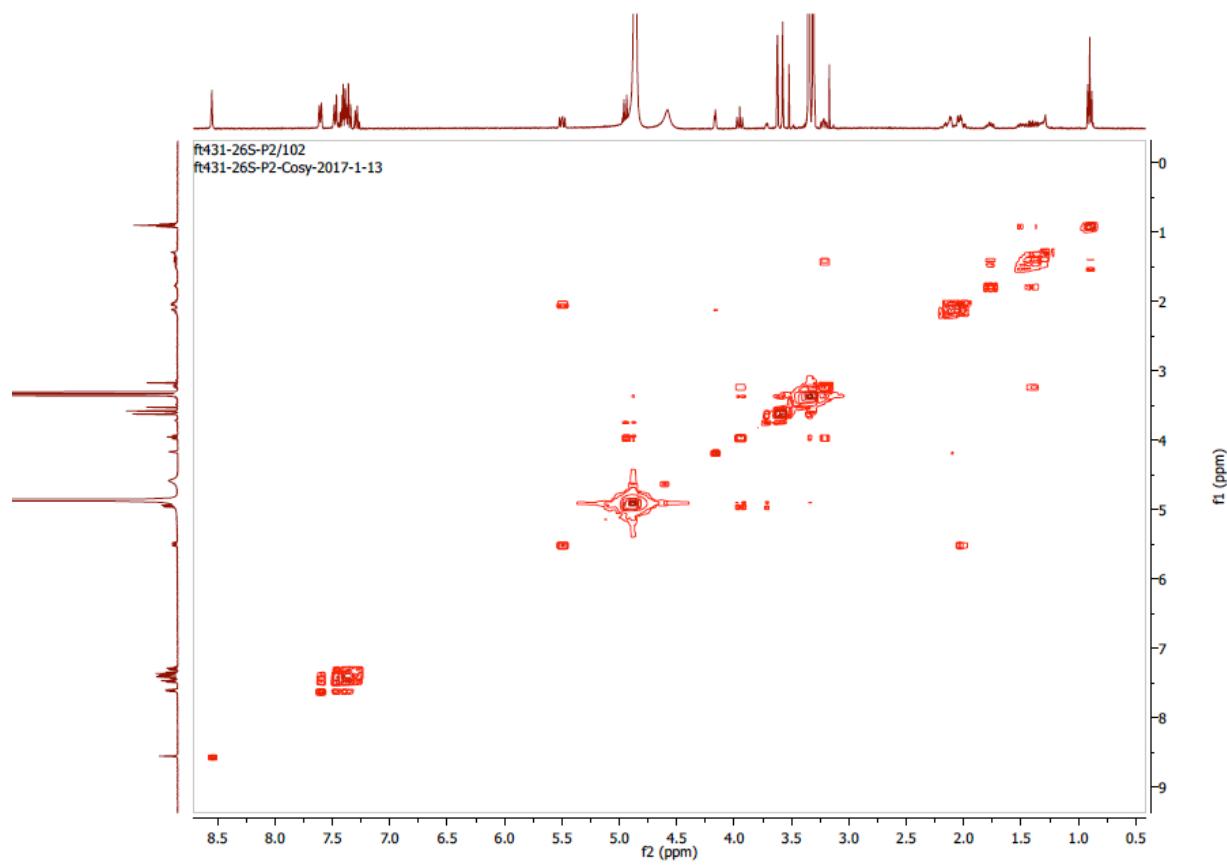


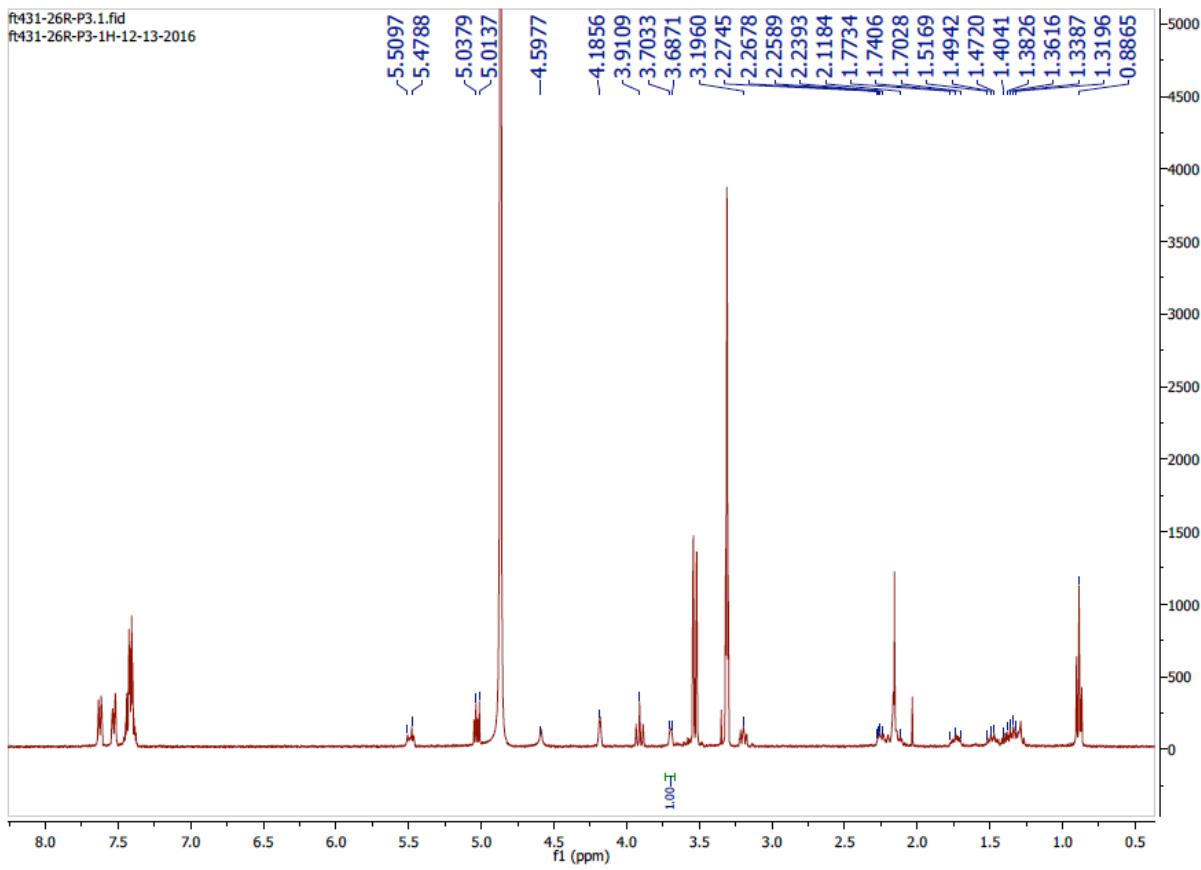


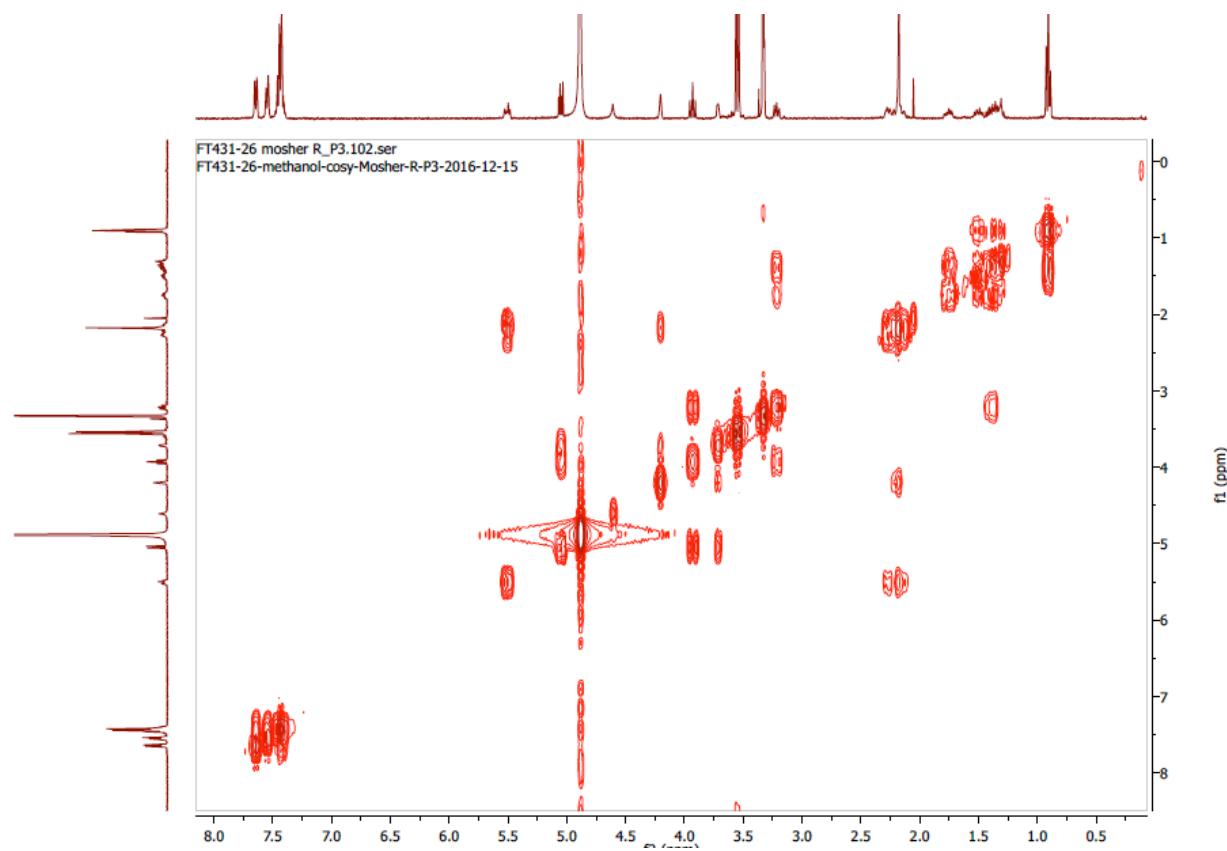
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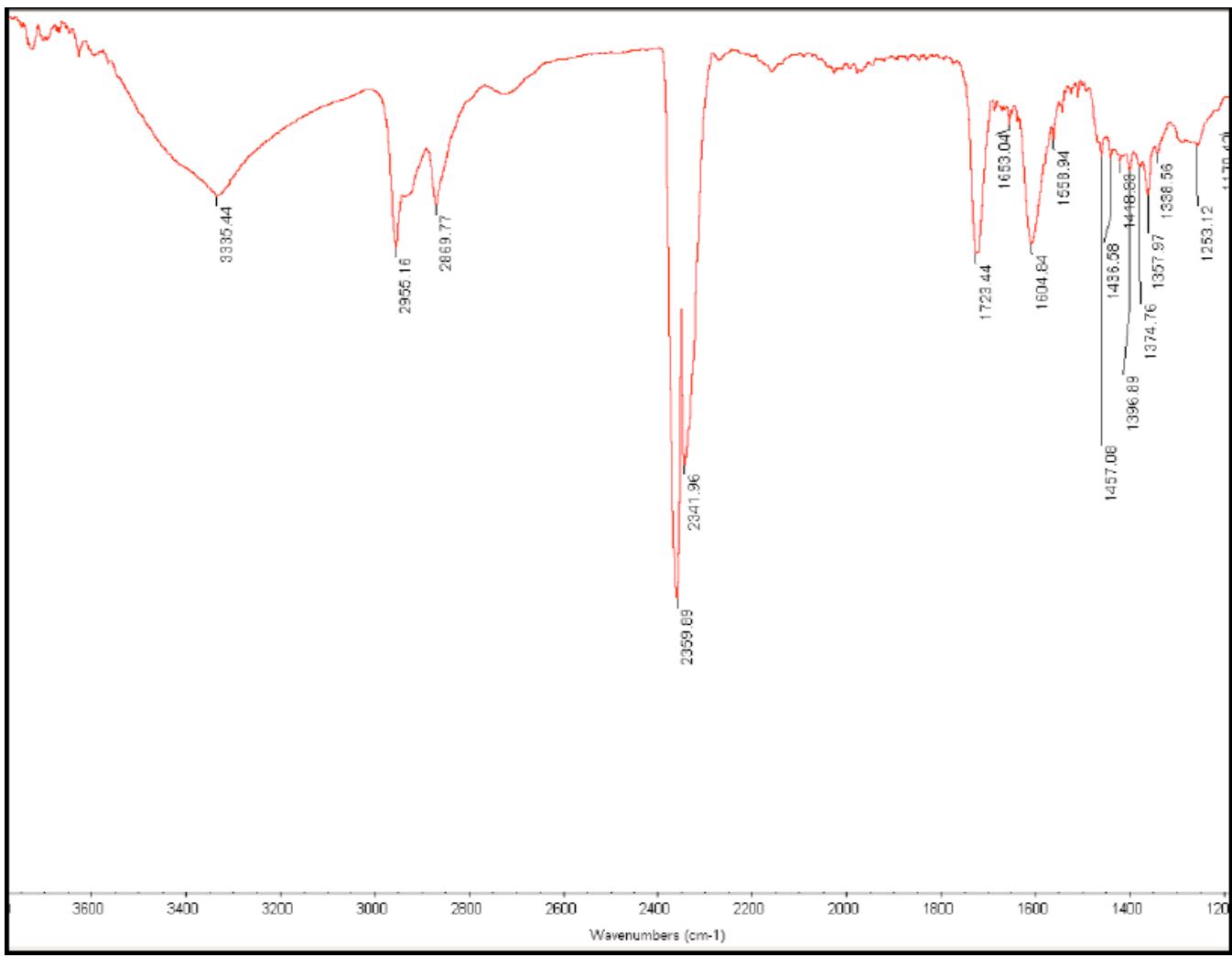












Computational Methods. All the quantum mechanical calculations were performed using Gaussian 09.¹ Systematic conformational searches were done for each compound in the gas phase using the MMFF force field, implemented in Spartan 08.² All conformers within 10 kcal/mol of the lowest energy conformer were subjected to further reoptimization at the PCM/B3LYP/6-31G* level of theory using methanol as solvent. The choice for the 10 kcal/mol of cutoff was set as a balance between reducing the overall CPU calculation time and minimizing the possibility of losing further contributing conformers. Frequency calculations were done for all optimized geometries at the PCM/B3LYP/6-31G* level to determine the nature of the stationary point found, and to compute the thermochemical properties (at 1 atm and 298.15 K). All the PCM/B3LYP/6-31G* optimized geometries were next subjected to NMR calculations. The magnetic shielding constants (σ) were computed using the gauge including atomic orbitals (GIAO) method,³ the method of choice to solve the gauge origin problem,⁴ at PCM/mPW1PW91/6-31+G** level of theory, using the polarizable continuum model, PCM,⁵ with methanol as the solvent. The unscaled chemical shifts (δ_u) were computed using TMS as reference standard according to $\delta_u = \sigma_0 - \sigma_x$, where σ_x is the Boltzmann averaged shielding tensor (over all significantly populated conformations) and σ_0 is the shielding tensor of TMS computed at the same level of theory employed for σ_x . The Boltzmann averaging was done according to eq 1:

$$\sigma^x = \frac{\sum_i \sigma_i^x e^{(-E_i/RT)}}{\sum_i e^{(-E_i/RT)}} \quad (\text{eq. 1})$$

where σ_i^x is the shielding constant for nucleus x in conformer i , R is the molar gas constant (8.3145 J K⁻¹ mol⁻¹), T is the temperature (298 K), and E_i is the SCF energy of conformer i (relative to the lowest energy conformer), obtained at the PCM/mPW1PW91/6-31+G** level of theory. The scaled chemical shifts (δ_s) were computed as $\delta_s = (\delta_u - b)/m$, where m and b are the slope and intercept, respectively, resulting from a linear regression calculation on a plot of δ_u against δ_{exp} .⁴ The DP4+ calculations were carried out using the Excel spreadsheet available for free at sarotti-nmr.weebly.com, or as part of the Supporting Information of the original paper.⁶

References:

- 1) Frisch, M. J.; Trucks, G. W.; Schlegel, H. B.; Scuseria, G. E.; Robb, M. A.; Cheeseman, J. R.; Scalmani, G.; Barone, V.; Mennucci, B.; Petersson, G. A.; Nakatsuji, H.; Caricato, M.; Li, X.; Hratchian, H. P.; Izmaylov, A. F.; Bloino, J.; Zheng, G.; Sonnenberg, J. L.; Hada, M.; Ehara, M.; Toyota, K.; Fukuda, R.; Hasegawa, J.; Ishida, M.; Nakajima, T.; Honda, Y.; Kitao, O.; Nakai, H.; Vreven, T.; Montgomery, J. A., Jr.; Peralta, J. E.; Ogliaro, F.; Bearpark, M.; Heyd, J. J.; Brothers, E.; Kudin, K. N.; Staroverov, V. N.; Kobayashi, R.; Normand, J.; Raghavachari, K.; Rendell, A.; Burant, J. C.; Iyengar, S. S.; Tomasi, J.; Cossi, M.; Rega, N.; Millam, J. M.; Klene, M.; Knox, J. E.; Cross, J. B.; Bakken, V.; Adamo, C.; Jaramillo, J.; Gomperts, R.; Stratmann, R. E.; Yazev, O.; Austin, A. J.; Cammi, R.; Pomelli, C.; Ochterski, J. W.; Martin, R. L.; Morokuma, K.; Zakrzewski, V. G.; Voth, G. A.; Salvador, P.; Dannenberg, J. J.; Dapprich, S.; Daniels, A. D.; Farkas, O.; Foresman, J. B.; Ortiz, J. V.; Cioslowski, J.; Fox, D. J. *Gaussian 09*, Gaussian, Inc.: Wallingford, CT, 2009.
- 2) Spartan'08; Wavefunction: Irvine, CA.
- 3) a) Ditchfield, R. *J. Chem. Phys.* **1972**, *56*, 5688. b) Ditchfield, R. *Mol. Phys.* **1974**, *27*, 789. c) Rohlfing, C. M.; Allen, L. C.; Ditchfield, R. *Chem. Phys.* **1984**, *87*, 9. d) Wolinski, K.; Hinton, J. F.; Pulay, P. *J. Am. Chem. Soc.* **1990**, *112*, 8251.
- 4) a) Grimblat, N.; Sarotti, A. M. *Chem. Eur. J.* **2016**, *22*, 12246. b) Lodewyk, M. W.; Siebert, M. R.; Tantillo, D. J. *Chem. Rev.* **2012**, *112*, 1839.
- 5) For a review on continuum solvation models, see: Tomasi, J.; Mennucci, B.; Cammi, R. *Chem. Rev.* **2005**, *105*, 2999.
- 6) Grimblat, N.; Zanardi, M. M.; Sarotti, A. M. *J. Org. Chem.* **2015**, *80*, 12526.

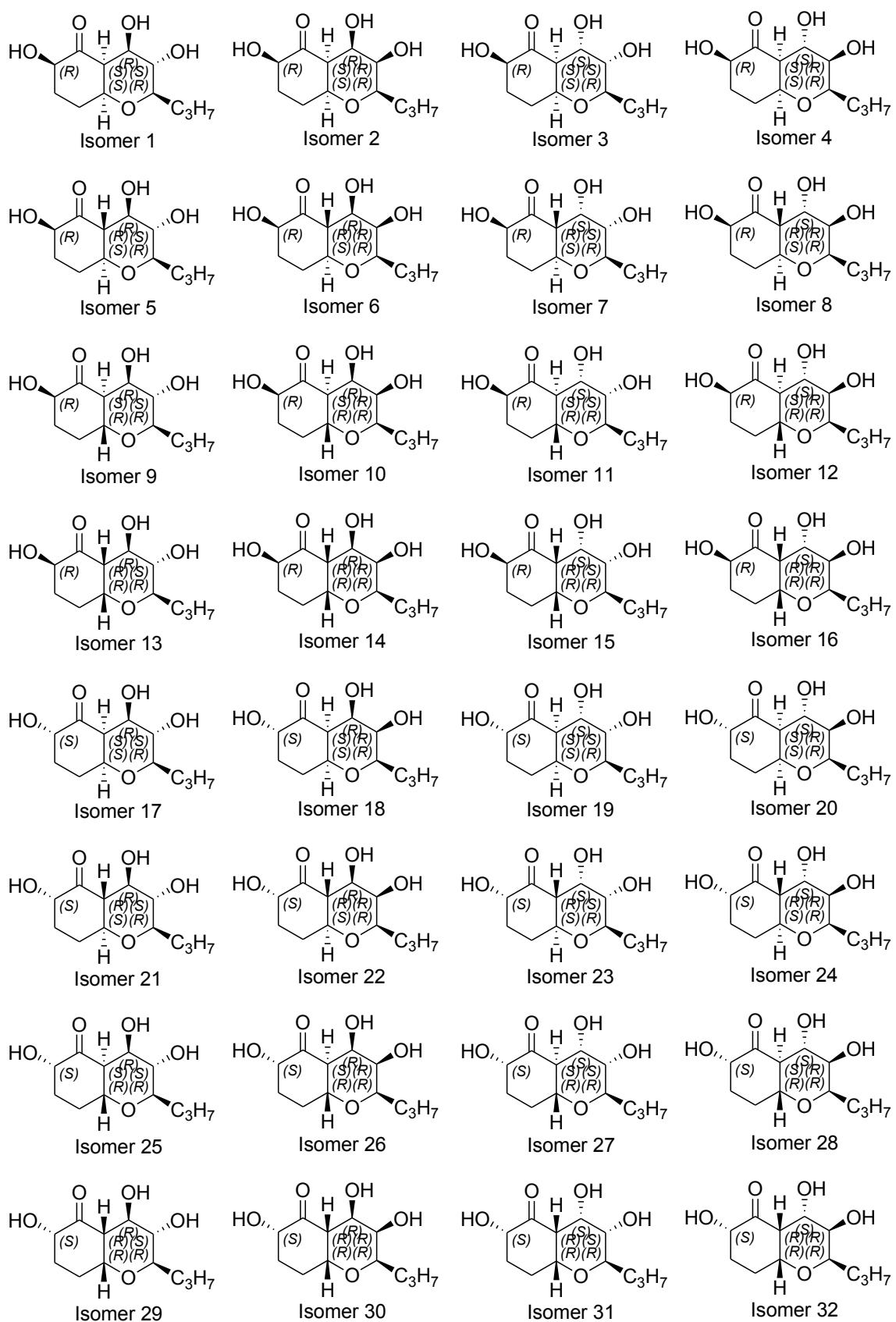
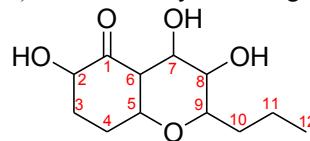


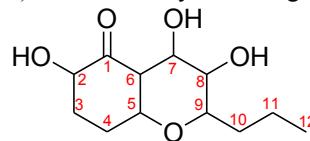
Figure S12. Structures of Isomers 1-32

Table S1. NMR Boltzmann averaged isotropic magnetic shielding values (σ) calculated at the PCM/mPW1PW91/6-31+G**//PCM/B3LYP/6-31G* (solvent: MeOH) level of theory for all significantly populated conformers of Isomers 1-32.



Atom	Shielding Tensors							
	Isomer 1	Isomer 2	Isomer 3	Isomer 4	Isomer 5	Isomer 6	Isomer 7	Isomer 8
C-1	-23.4442	-24.6192	-18.1452	-23.9710	-23.1534	-22.2556	-21.2058	-22.7222
C-2	119.4385	118.8024	119.5161	119.0259	122.1023	121.0696	118.8367	118.5394
C-3	162.1287	157.2302	160.8190	157.1976	169.8284	167.2508	164.3656	164.5891
C-4	165.9719	165.7785	167.0149	166.0343	169.3953	169.3111	168.5223	168.1236
C-5	115.7863	113.1220	119.2641	115.7086	125.4721	120.5583	119.1846	117.4976
C-6	142.1111	139.1995	140.2048	139.6225	141.1619	143.3718	139.8175	143.6511
C-7	119.3329	124.9933	127.1662	126.1322	120.0491	123.6624	127.1969	125.7212
C-8	122.8219	125.1532	125.9619	123.3830	120.1596	124.9762	123.7546	124.4446
C-9	115.4249	114.6870	119.0739	116.2481	116.4438	117.2990	118.3535	119.4625
C-10	160.3435	161.0344	159.8731	160.7596	160.3975	160.8467	159.9180	161.4111
C-11	174.5795	174.1682	174.3952	174.1761	174.5200	174.0329	174.2480	174.1417
C-12	180.9368	181.0311	180.8977	180.7136	180.8874	180.9995	180.8472	180.7241
H-2	27.2294	27.0335	27.1988	26.9831	27.2606	27.5153	27.6704	27.6827
H-3a	29.5171	29.6681	29.6677	29.6561	29.8078	29.6264	29.8526	29.8649
H-3b	29.3022	29.2307	29.3281	29.2145	29.3852	29.5829	29.4268	29.4356
H-4	29.5346	29.5778	29.5416	29.5745	29.4789	29.5186	29.5785	29.5627
H-5	27.5345	27.6255	27.1548	27.1419	27.7911	28.0446	27.7223	27.6738
H-6	28.5513	28.3029	28.6304	28.5041	29.1735	28.4872	28.2811	28.0709
H-7	28.1722	27.8134	27.1270	27.0906	27.8379	27.6090	27.1173	27.2923
H-8	28.1201	28.0048	28.1017	28.4245	28.2974	27.8344	28.4120	28.0887
H-9a	28.3407	28.1534	28.0296	27.8406	28.2384	28.1131	28.0445	27.7013
H-9b	30.2278	30.0589	30.3234	30.1621	30.1915	30.0523	30.2625	30.1599
H-10a	29.7569	29.8874	29.8708	29.8739	29.7316	29.8037	29.7301	29.9341
H-10b	30.1916	30.1758	30.2685	30.2050	30.1888	30.1779	30.2072	30.1978
H-11	29.9715	30.0905	29.9734	30.0893	29.9451	30.0322	29.9477	30.0750
H-12	30.6475	30.6321	30.6583	30.6337	30.6361	30.6179	30.6286	30.6283
Atom	Shielding Tensors							
	Isomer 9	Isomer 10	Isomer 11	Isomer 12	Isomer 13	Isomer 14	Isomer 15	Isomer 16
C-1	-20.3719	-19.0143	-20.1516	-17.8470	-16.9325	-19.4722	-19.4885	-20.3978
C-2	119.5710	120.0040	119.7110	119.9951	121.8178	119.6876	118.8786	118.5517
C-3	161.6510	161.8052	163.7036	163.3626	163.7934	165.4403	165.0362	165.7570
C-4	165.4811	165.6225	165.6968	165.8957	170.5199	169.2306	168.2173	168.6221
C-5	125.7661	127.1782	124.0669	123.9390	119.2363	130.2194	121.4153	120.9284
C-6	142.3862	138.5096	141.3881	136.8842	135.7150	142.6571	141.0224	144.8673
C-7	125.6181	126.7401	126.6529	125.7311	120.1208	125.0675	125.3141	123.1271
C-8	124.6836	126.3962	123.6999	122.3611	123.2921	128.3932	123.8695	124.2186
C-9	115.2139	117.2527	116.3050	117.7753	120.4562	117.6440	128.3369	126.3598
C-10	163.6392	166.3957	163.7819	167.5624	163.3756	166.8808	161.4952	162.5753
C-11	173.3806	173.4439	173.5251	173.9524	175.1590	173.6196	176.2532	174.4525
C-12	181.2822	180.9829	181.2926	181.1465	180.0671	180.9470	181.7634	180.9004
H-2	27.1053	27.1817	27.2732	27.2927	27.0570	27.3226	26.8395	27.0292
H-3a	30.1436	30.1251	30.0146	30.0663	30.1591	29.7171	30.1271	30.0774
H-3b	29.1614	29.1351	29.1773	29.1722	29.2054	29.3574	29.2286	29.2463
H-4	29.6325	29.6620	29.5957	29.6432	29.4944	29.5360	29.2975	29.3649
H-5	27.4799	27.5989	27.8952	27.8921	27.3959	27.1051	27.5659	27.4494
H-6	28.7549	29.0696	28.6580	29.2010	28.7014	28.3454	28.7233	28.4953
H-7	27.2476	27.0329	27.3129	27.4681	27.6486	27.1194	27.5348	27.5815
H-8	27.9304	27.8329	27.7887	27.7798	28.0849	27.7451	28.0750	28.1506
H-9a	27.7503	27.6098	27.5013	27.4454	27.6041	27.6491	27.5324	27.2850
H-9b	30.1079	30.0696	30.3039	29.9888	30.0448	30.1405	29.9877	30.1607
H-10a	29.3064	29.4355	29.8086	29.9172	29.5080	29.3948	29.9875	30.0098
H-10b	30.2825	30.2997	30.2352	30.2530	30.1378	30.3612	30.1610	30.2040
H-11	30.0630	29.9700	30.0303	29.9999	29.8026	29.9855	29.9496	30.0626
H-12	30.6372	30.6159	30.6237	30.6071	30.5462	30.6305	30.6297	30.6182

Table S1 (cont). NMR Boltzmann averaged isotropic magnetic shielding values (σ) calculated at the PCM/mPW1PW91/6-31+G**//PCM/B3LYP/6-31G* (solvent: MeOH) level of theory for all significantly populated conformers of Isomers 1-32.



Shielding Tensors								
Atom	Isomer 17	Isomer 18	Isomer 19	Isomer 20	Isomer 21	Isomer 22	Isomer 23	Isomer 24
C-1	-25.0723	-26.4178	-19.0657	-24.1925	-17.6373	-19.9299	-18.5742	-20.1608
C-2	119.9050	121.1029	119.3970	118.1755	120.1330	119.8174	119.8968	119.7497
C-3	166.7454	165.3513	165.0465	161.8182	163.0819	163.4990	161.8484	161.7086
C-4	168.7934	168.7311	169.3488	168.6741	165.8069	166.0340	165.9676	165.5448
C-5	118.1246	119.1777	121.3267	117.6124	116.8894	117.0346	119.1202	117.7013
C-6	144.2042	146.0962	141.9913	141.9925	137.5984	141.2801	138.0446	141.7821
C-7	118.7231	121.2069	126.0219	124.6944	122.2404	124.4100	127.3606	125.9458
C-8	122.3197	124.8175	125.6813	124.2181	119.2261	124.9645	124.2152	124.7914
C-9	115.3262	116.4401	118.8752	117.3551	114.6884	116.9362	118.2638	119.5643
C-10	160.3865	160.6455	159.8577	160.9741	159.1014	161.0692	160.0334	161.6416
C-11	174.4917	174.0515	174.2873	174.2539	172.5959	174.0617	174.3761	174.1984
C-12	180.9950	180.7875	180.9675	180.8834	180.3551	181.0294	180.8397	180.8321
H-2	27.3469	26.5443	27.3944	27.1926	27.2681	27.2716	27.1461	27.1174
H-3a	29.6907	29.8744	29.7015	29.5946	30.0811	30.0416	30.1301	30.1803
H-3b	29.3321	29.3129	29.3898	29.3605	29.1811	29.1820	29.1466	29.1661
H-4	29.4475	29.4880	29.4827	29.5351	29.5774	29.5438	29.6086	29.5968
H-5	27.6298	27.7665	27.2149	27.1533	28.1130	28.1706	27.7305	27.6537
H-6	28.3112	28.5705	28.2659	28.1531	29.1267	28.7352	29.0511	28.8112
H-7	28.1239	27.6013	27.1530	27.2120	27.7055	27.5421	27.0978	27.2355
H-8	28.3187	28.0076	28.2338	28.3227	28.2796	27.7960	28.4308	28.0467
H-9a	28.3786	28.1848	28.0504	27.8523	28.2056	28.0956	28.0452	27.7149
H-9b	30.2499	30.0597	30.3454	30.1446	30.0889	30.0392	30.2648	30.1668
H-10a	29.7871	29.8468	29.8550	29.9410	29.7507	29.8034	29.7407	29.9270
H-10b	30.2091	30.1902	30.2606	30.2090	30.1832	30.1738	30.1964	30.1859
H-11	29.9726	30.0661	29.9556	30.0954	29.7309	30.0345	29.9577	30.0685
H-12	30.6490	30.6276	30.6535	30.6282	30.5974	30.6172	30.6368	30.6293
Shielding Tensors								
Atom	Isomer 25	Isomer 26	Isomer 27	Isomer 28	Isomer 29	Isomer 30	Isomer 31	Isomer 32
C-1	-22.6756	-21.3430	-22.4888	-20.2869	-23.4424	-18.7333	-24.8156	-23.9652
C-2	118.2902	119.1319	121.0690	121.1261	119.1704	119.4857	118.7521	119.3893
C-3	164.1367	164.5764	167.2397	166.5760	159.4801	160.9931	157.6714	162.3498
C-4	168.1109	168.0213	169.1424	168.9854	166.1232	166.4849	165.7369	165.9726
C-5	125.9571	127.4995	127.5279	126.1496	124.6008	127.6062	120.4270	123.1163
C-6	144.3401	140.5734	143.5354	138.6685	139.8082	140.7067	139.4976	142.3623
C-7	125.1997	126.6742	126.0041	125.0874	125.3983	126.3660	127.6639	123.2653
C-8	124.3310	126.0504	123.8803	121.9201	123.5345	128.4393	124.4374	124.7753
C-9	115.6263	117.3334	116.5712	118.4719	113.6642	117.8608	113.1784	117.6876
C-10	163.5764	166.3465	163.7149	167.8711	161.9222	166.7182	162.8348	168.5431
C-11	173.4361	173.4869	173.5404	174.2511	173.6482	173.7253	173.7005	174.1939
C-12	181.1027	180.9315	181.1818	181.4040	181.0804	180.8726	181.1261	180.8041
H-2	27.6817	27.6988	27.5394	27.6730	27.0437	27.2022	27.0535	27.2629
H-3a	29.8433	29.8545	29.6202	29.7137	29.6223	29.6036	29.6314	29.4654
H-3b	29.4573	29.4326	29.5696	29.5193	29.2621	29.3243	29.2444	29.3444
H-4	29.5960	29.6515	29.5738	29.6101	29.5994	29.6057	29.6210	29.5896
H-5	27.4829	27.6172	27.7720	27.8085	27.0279	27.0105	27.3375	27.2615
H-6	28.0469	28.3518	28.4127	28.7672	28.6738	28.6266	28.3559	28.5909
H-7	27.2990	27.0824	27.3704	27.5286	27.2216	27.0690	27.6671	27.9127
H-8	27.9946	27.8316	27.8052	27.7287	28.3024	27.5415	28.0358	27.5990
H-9a	27.7246	27.6095	27.5247	27.4167	27.7494	27.6071	27.4392	27.3898
H-9b	30.1492	30.0985	30.3260	30.0072	30.1169	30.1035	30.2709	30.0759
H-10a	29.2142	29.3997	29.8291	29.8877	29.5860	29.3936	29.8880	29.9250
H-10b	30.2758	30.3293	30.2505	30.2478	30.2485	30.3521	30.2430	30.2703
H-11	30.0453	29.9410	30.0053	29.9874	30.0621	29.9895	30.0983	30.0117
H-12	30.6338	30.6252	30.6282	30.6148	30.6341	30.6323	30.6412	30.6385

Table S2. Experimental NMR shifts (δ_{exp}) of **1** and calculated (scaled) NMR chemical shifts (δ_{sc}) of Isomers 1-32, computed at the PCM/mPW1PW91/6-31+G**//PCM/B3LYP/6-31G* (solvent: MeOH) level of theory.

Atom	δ_{exp}	δ_{sc}							
		Isomer 1	Isomer 2	Isomer 3	Isomer 4	Isomer 5	Isomer 6	Isomer 7	Isomer 8
C-1	210.0	212.0	212.9	213.5	213.4	212.8	213.2	213.2	213.3
C-2	75.0	73.7	73.9	75.7	74.1	72.8	74.2	75.9	76.2
C-3	31.3	32.3	36.7	34.3	36.9	26.8	29.4	31.3	31.5
C-4	27.7	28.6	28.4	28.1	28.3	27.2	27.4	27.2	28.1
C-5	77.8	77.2	79.4	75.9	77.3	69.6	74.7	75.6	77.2
C-6	53.6	51.7	54.1	54.9	54.0	54.4	52.6	55.3	51.8
C-7	74.1	73.8	67.9	68.0	67.2	74.8	71.7	67.7	69.2
C-8	71.1	70.4	67.8	69.2	69.9	74.7	70.4	71.1	70.5
C-9	80.3	77.6	77.9	76.1	76.8	78.3	77.8	76.4	75.3
C-10	33.7	34.1	33.0	35.2	33.4	35.9	35.6	35.6	34.6
C-11	18.1	20.3	20.3	20.7	20.4	22.3	22.8	21.6	22.2
C-12	13.1	14.1	13.6	14.2	14.0	16.2	16.1	15.1	15.8
	CMAE	1.3	2.3	2.4	2.2	2.9	2.1	2.2	2.1
	CMaxErr	2.7	6.2	6.1	6.9	8.2	4.7	6.4	5.0
H-2	4.24	4.32	4.52	4.35	4.57	4.29	4.04	3.88	3.87
H-3a	1.90	2.03	1.88	1.88	1.89	1.74	1.92	1.70	1.69
H-3b	2.14	2.25	2.32	2.22	2.34	2.17	1.97	2.12	2.11
H-4	2.03	2.02	1.97	2.01	1.98	2.07	2.03	1.97	1.99
H-5	3.97	4.02	3.92	4.40	4.41	3.76	3.51	3.83	3.88
H-6	3.15	3.00	3.25	2.92	3.05	2.38	3.06	3.27	3.48
H-7	3.49	3.38	3.74	4.42	4.46	3.71	3.94	4.43	4.26
H-8	3.63	3.43	3.55	3.45	3.13	3.25	3.72	3.14	3.46
H-9a	3.08	3.21	3.40	3.52	3.71	3.31	3.44	3.51	3.85
H-9b	1.38	1.32	1.49	1.23	1.39	1.36	1.50	1.29	1.39
H-10a	1.78	1.79	1.66	1.68	1.68	1.82	1.75	1.82	1.62
H-10b	1.35	1.36	1.37	1.28	1.35	1.36	1.37	1.34	1.35
H-11	1.49	1.58	1.46	1.58	1.46	1.61	1.52	1.60	1.48
H-12	0.92	0.90	0.92	0.89	0.92	0.91	0.93	0.92	0.92
	CMAE	0.09	0.10	0.17	0.19	0.18	0.15	0.22	0.22
	CMaxErr	0.19	0.21	0.63	0.69	0.72	0.49	0.92	0.65

Atom	δ_{exp}	δ_{sc}							
		Isomer 9	Isomer 10	Isomer 11	Isomer 12	Isomer 13	Isomer 14	Isomer 15	Isomer 16
C-1	210.0	213.9	214.3	213.6	212.7	211.6	214.4	214.1	213.9
C-2	75.0	75.6	75.9	75.6	75.5	73.4	77.3	77.4	77.5
C-3	31.3	34.0	34.2	32.2	32.3	31.5	32.2	31.9	31.2
C-4	27.7	30.3	30.4	30.2	29.8	24.8	28.5	28.7	28.4
C-5	77.8	69.5	68.7	71.3	71.6	75.9	66.9	74.9	75.2
C-6	53.6	53.1	57.4	54.2	58.7	59.5	54.7	55.6	51.7
C-7	74.1	69.7	69.2	68.7	69.8	75.0	72.0	71.1	73.0
C-8	71.1	70.6	69.5	71.7	73.1	71.9	68.7	72.5	71.9
C-9	80.3	79.9	78.6	78.9	77.7	74.7	79.3	68.1	69.8
C-10	33.7	32.1	29.7	32.1	28.2	31.9	30.8	35.4	34.3
C-11	18.1	22.5	22.7	22.5	21.8	20.2	24.2	20.8	22.6
C-12	13.1	14.7	15.1	14.8	14.6	15.3	16.9	15.3	16.3
	CMAE	2.6	3.6	2.5	3.1	2.3	3.2	3.0	2.7
	CMaxErr	8.3	9.1	6.5	6.2	5.9	10.9	12.2	10.5
H-2	4.24	4.45	4.37	4.28	4.26	4.49	4.23	4.71	4.52
H-3a	1.90	1.41	1.43	1.54	1.48	1.39	1.83	1.42	1.47
H-3b	2.14	2.39	2.42	2.37	2.38	2.35	2.19	2.32	2.30
H-4	2.03	1.92	1.89	1.95	1.91	2.06	2.01	2.25	2.19
H-5	3.97	4.07	3.95	3.66	3.66	4.15	4.45	3.98	4.10
H-6	3.15	2.80	2.48	2.89	2.35	2.85	3.21	2.83	3.06
H-7	3.49	4.30	4.52	4.24	4.08	3.90	4.43	4.02	3.97
H-8	3.63	3.62	3.72	3.76	3.77	3.47	3.81	3.48	3.40
H-9a	3.08	3.80	3.94	4.05	4.11	3.95	3.90	4.02	4.27
H-9b	1.38	1.44	1.48	1.25	1.56	1.51	1.41	1.56	1.39
H-10a	1.78	2.24	2.12	1.74	1.63	2.04	2.16	1.56	1.54
H-10b	1.35	1.27	1.25	1.32	1.30	1.41	1.19	1.39	1.35
H-11	1.49	1.49	1.58	1.52	1.55	1.75	1.56	1.60	1.49
H-12	0.92	0.91	0.93	0.93	0.94	1.00	0.92	0.92	0.93
	CMAE	0.24	0.29	0.23	0.29	0.21	0.19	0.25	0.21
	CMaxErr	0.55	0.77	0.79	0.95	0.68	0.52	0.70	0.90

Table S2 (cont). Experimental NMR shifts (δ_{exp}) of **1** and calculated (scaled) NMR chemical shifts (δ_{sc}) of Isomers 1-32, computed at the PCM/mPW1PW91/6-31+G**//PCM/B3LYP/6-31G* (solvent: MeOH) level of theory.

Atom	δ_{exp}	δ_{sc}							
		Isomer 17	Isomer 18	Isomer 19	Isomer 20	Isomer 21	Isomer 22	Isomer 23	Isomer 24
C-1	210.0	212.0	213.6	213.3	213.2	211.2	212.6	213.2	213.5
C-2	75.0	73.8	73.2	76.3	75.7	73.2	74.7	74.9	75.1
C-3	31.3	29.2	31.1	31.1	33.6	30.2	31.6	32.9	33.5
C-4	27.7	27.2	27.9	26.8	27.0	27.5	29.1	28.8	29.7
C-5	77.8	75.5	75.1	74.4	76.3	76.5	77.4	75.6	77.1
C-6	53.6	50.7	49.5	53.9	52.8	55.7	53.5	56.7	53.3
C-7	74.1	75.0	73.1	69.7	69.5	71.1	70.2	67.4	68.9
C-8	71.1	71.5	69.7	70.0	69.9	74.1	69.6	70.5	70.1
C-9	80.3	78.2	77.7	76.8	76.5	78.7	77.5	76.5	75.2
C-10	33.7	35.2	35.6	36.2	34.4	34.2	34.0	34.8	33.6
C-11	18.1	21.8	22.9	22.0	21.6	20.7	21.2	20.4	21.2
C-12	13.1	15.6	16.4	15.3	15.2	12.9	14.3	14.0	14.6
	CMAE	1.8	2.3	2.2	2.1	1.6	1.5	2.2	2.1
	CMaxErr	3.7	4.8	4.4	4.6	3.0	3.9	6.7	5.2
H-2	4.24	4.20	5.01	4.16	4.36	4.28	4.28	4.40	4.43
H-3a	1.90	1.86	1.68	1.85	1.96	1.47	1.51	1.42	1.37
H-3b	2.14	2.22	2.24	2.16	2.19	2.37	2.37	2.40	2.38
H-4	2.03	2.10	2.06	2.07	2.02	1.97	2.01	1.94	1.95
H-5	3.97	3.92	3.78	4.34	4.40	3.44	3.38	3.82	3.90
H-6	3.15	3.24	2.98	3.28	3.40	2.42	2.82	2.50	2.74
H-7	3.49	3.43	3.95	4.40	4.34	3.84	4.01	4.45	4.32
H-8	3.63	3.23	3.54	3.32	3.23	3.27	3.75	3.12	3.50
H-9a	3.08	3.17	3.37	3.50	3.70	3.34	3.45	3.51	3.84
H-9b	1.38	1.30	1.49	1.21	1.41	1.46	1.51	1.29	1.38
H-10a	1.78	1.76	1.70	1.70	1.61	1.80	1.75	1.81	1.62
H-10b	1.35	1.34	1.36	1.29	1.34	1.37	1.38	1.35	1.36
H-11	1.49	1.58	1.48	1.59	1.46	1.82	1.52	1.59	1.48
H-12	0.92	0.90	0.92	0.90	0.92	0.95	0.93	0.91	0.92
	CMAE	0.09	0.17	0.17	0.16	0.27	0.21	0.28	0.24
	CMaxErr	0.35	0.48	0.65	0.60	0.67	0.59	0.90	0.62

Atom	δ_{exp}	δ_{sc}							
		Isomer 25	Isomer 26	Isomer 27	Isomer 28	Isomer 29	Isomer 30	Isomer 31	Isomer 32
C-1	210.0	213.8	214.3	214.2	213.0	214.0	214.6	213.9	213.8
C-2	75.0	76.9	76.8	75.0	74.9	74.8	76.8	74.7	75.5
C-3	31.3	32.4	32.4	30.2	30.6	35.5	35.5	37.0	34.1
C-4	27.7	28.5	29.0	28.4	28.2	29.0	30.0	29.2	30.6
C-5	77.8	69.5	68.7	68.7	70.0	69.5	68.7	73.1	71.9
C-6	53.6	51.6	55.9	53.2	57.8	54.7	55.7	54.6	53.4
C-7	74.1	70.2	69.5	70.2	71.1	68.7	70.0	66.1	71.8
C-8	71.1	71.1	70.1	72.2	74.2	70.5	67.9	69.2	70.3
C-9	80.3	79.5	78.6	79.3	77.5	80.2	78.4	80.1	77.2
C-10	33.7	32.9	30.6	33.6	29.3	33.1	29.8	32.0	28.1
C-11	18.1	23.4	23.7	24.1	23.1	21.6	22.8	21.5	22.7
C-12	13.1	15.9	16.4	16.7	16.1	14.4	15.7	14.3	16.3
	CMAE	2.6	3.3	2.6	3.1	2.5	3.7	2.8	3.0
	CMaxErr	8.3	9.1	9.1	7.8	8.3	9.1	8.0	5.9
H-2	4.24	3.87	3.85	4.01	3.88	4.51	4.35	4.50	4.29
H-3a	1.90	1.71	1.70	1.93	1.84	1.93	1.95	1.92	2.09
H-3b	2.14	2.09	2.12	1.98	2.03	2.29	2.23	2.31	2.21
H-4	2.03	1.95	1.90	1.98	1.94	1.95	1.94	1.93	1.96
H-5	3.97	4.07	3.93	3.78	3.74	4.52	4.54	4.21	4.29
H-6	3.15	3.50	3.20	3.14	2.78	2.88	2.92	3.19	2.96
H-7	3.49	4.25	4.47	4.18	4.02	4.33	4.48	3.88	3.64
H-8	3.63	3.56	3.72	3.75	3.82	3.25	4.01	3.51	3.95
H-9a	3.08	3.83	3.94	4.03	4.13	3.80	3.94	4.11	4.16
H-9b	1.38	1.40	1.45	1.22	1.54	1.43	1.45	1.28	1.47
H-10a	1.78	2.34	2.15	1.72	1.66	1.96	2.16	1.66	1.63
H-10b	1.35	1.27	1.22	1.30	1.30	1.30	1.20	1.31	1.28
H-11	1.49	1.51	1.61	1.55	1.56	1.49	1.56	1.45	1.54
H-12	0.92	0.92	0.93	0.92	0.94	0.92	0.92	0.91	0.91
	CMAE	0.25	0.25	0.20	0.25	0.20	0.19	0.14	0.16
	CMaxErr	0.57	0.77	0.79	0.99	0.59	0.51	0.74	0.81

Table S3. DP4+ probability values (%) obtained after correlating the experimental NMR shifts of **1** with the calculated NMR data of Isomers 1-32.

Isomer Nº	DP4+ (H data)	DP4+ (C data)	DP4+ (all data)
1	14.46	99.92	100.00
2	0.05	0.00	0.00
3	0.00	0.00	0.00
4	0.00	0.00	0.00
5	0.00	0.00	0.00
6	0.00	0.00	0.00
7	0.00	0.00	0.00
8	0.00	0.00	0.00
9	0.00	0.00	0.00
10	0.00	0.00	0.00
11	0.00	0.00	0.00
12	0.00	0.00	0.00
13	0.00	0.00	0.00
14	0.00	0.00	0.00
15	0.00	0.00	0.00
16	0.00	0.00	0.00
17	85.49	0.00	0.00
18	0.00	0.00	0.00
19	0.00	0.00	0.00
20	0.00	0.00	0.00
21	0.00	0.05	0.00
22	0.00	0.02	0.00
23	0.00	0.00	0.00
24	0.00	0.00	0.00
25	0.00	0.00	0.00
26	0.00	0.00	0.00
27	0.00	0.00	0.00
28	0.00	0.00	0.00
29	0.00	0.00	0.00
30	0.00	0.00	0.00
31	0.00	0.00	0.00
32	0.00	0.00	0.00

Cartesian Coordinates of the global minima conformation found for each isomer at the PCM/B3LYP/6-31G* level of theory.

Isomer 1

B3LYP/6-31G* geometry

O 0	2.043347	2.847364	0.066811
C 0	1.332300	1.713488	0.560858
C 0	-0.660214	0.205353	0.209314
C 0	1.311034	-0.722567	1.220067
O 0	0.239338	-0.909009	0.295880
C 0	2.206728	0.460702	0.754670
C 0	0.112466	1.419989	-0.322768
C 0	3.007158	0.070370	-0.475029
C 0	3.745122	-1.261046	-0.432145
C 0	2.781273	-2.385501	-0.014397
C 0	2.079850	-2.041421	1.305246
O 0	-0.747407	2.553144	-0.335572
C 0	-1.828828	-0.200563	-0.682912
C 0	-2.685531	-1.335082	-0.106273
C 0	-3.847122	-1.724072	-1.026038
O 0	4.354729	-1.534867	-1.673780
O 0	3.102318	0.774398	-1.476895
H 0	2.473710	2.544252	-0.755655
H 0	0.954638	2.016740	1.544993
H 0	-1.032081	0.447560	1.219768
H 0	0.896863	-0.466460	2.207505
H 0	2.943444	0.658578	1.547397
H 0	0.456959	1.188524	-1.343208
H 0	4.515229	-1.156629	0.353621
H 0	2.043766	-2.525223	-0.812152
H 0	3.348049	-3.317761	0.077346
H 0	1.377886	-2.836055	1.578806
H 0	2.813125	-1.965769	2.118247
H 0	-0.155884	3.317761	-0.454658
H 0	-2.448012	0.689702	-0.846851
H 0	-1.428565	-0.494262	-1.663695
H 0	-3.080159	-1.026666	0.872253
H 0	-2.049674	-2.209178	0.078408
H 0	-4.445147	-2.532853	-0.590772
H 0	-3.481815	-2.067070	-2.001963
H 0	-4.515229	-0.872128	-1.203372
H 0	4.236883	-0.724496	-2.207505

Free Energy (PCM/B3LYP/6-31G*) = -845.158852

Number of imaginary frequencies = 0

Isomer 2

B3LYP/6-31G* geometry

O 0	-2.172568	3.046442	-0.380247
C 0	-1.429053	1.932695	-0.848705
C 0	0.633397	0.490823	-0.428745
C 0	-1.331062	-0.559734	-1.275542
O 0	-0.253958	-0.637848	-0.344872
C 0	-2.252595	0.620881	-0.847214
C 0	-0.088137	1.811753	-0.087156
C 0	-2.906099	0.213542	0.455269
C 0	-3.765346	-1.040336	0.401196
C 0	-2.812606	-2.197676	0.003612
C 0	-2.070196	-1.898006	-1.304614
O 0	-0.280582	2.035679	1.309383
C 0	1.833679	0.211259	0.471885
C 0	2.658201	-1.008055	0.041325
C 0	3.851993	-1.267335	0.965917
O 0	-4.396300	-1.277813	1.639138
O 0	-2.698482	0.732694	1.549760
H 0	-1.952060	3.116375	0.567037
H 0	-1.192362	2.131287	-1.901627
H 0	0.974848	0.576253	-1.475033
H 0	-0.930781	-0.339162	-2.277453
H 0	-3.055504	0.715156	-1.590528
H 0	0.559985	2.633350	-0.412053
H 0	-4.534660	-0.924070	-0.374760
H 0	-2.098697	-2.340819	0.823123
H 0	-3.401839	-3.116375	-0.082395
H 0	-1.348264	-2.692932	-1.520598
H 0	-2.778966	-1.872722	-2.141994
H 0	-0.983222	1.427127	1.616926

H 0	2.469748	1.106923	0.474514
H 0	1.475521	0.082796	1.500335
H 0	3.015884	-0.859154	-0.987412
H 0	2.008812	-1.891031	0.017946
H 0	4.425321	-2.142705	0.639949
H 0	3.522050	-1.449210	1.996314
H 0	4.534660	-0.408593	0.983937
H 0	3.942779	-0.692795	2.277453

Free Energy (PCM/B3LYP/6-31G*) = -845.156190
Number of imaginary frequencies = 0

Isomer 3

B3LYP/6-31G* geometry

O 0	0.680519	2.578202	1.148958
C 0	1.098550	1.885105	-0.024369
C 0	-0.777877	0.159252	-0.005088
C 0	1.263464	-0.364185	1.134596
O 0	0.225865	-0.827327	0.268979
C 0	2.049169	0.766544	0.418486
C 0	-0.139902	1.333690	-0.762214
C 0	2.861123	0.185500	-0.723347
C 0	3.756573	-1.002727	-0.388193
C 0	2.902792	-2.105039	0.268962
C 0	2.147932	-1.559944	1.487843
O 0	-1.126650	2.372736	-0.840804
C 0	-1.897288	-0.518923	-0.789999
C 0	-2.641024	-1.600255	0.003983
C 0	-3.752928	-2.271721	-0.808359
O 0	4.413059	-1.466708	-1.547624
O 0	2.816427	0.597109	-1.875216
H 0	-0.139152	3.035915	0.881646
H 0	1.630212	2.571854	-0.699851
H 0	-1.172658	0.542752	0.949654
H 0	0.815382	0.057250	2.044887
H 0	2.764762	1.189845	1.138663
H 0	0.152984	0.997982	-1.763844
H 0	4.500937	-0.653525	0.347444
H 0	2.195471	-2.484643	-0.476940
H 0	3.557838	-2.935164	0.553791
H 0	1.519400	-2.342862	1.925632
H 0	2.857965	-1.246860	2.264186
H 0	-0.875075	2.971782	-1.562594
H 0	-2.599755	0.259120	-1.111724
H 0	-1.465181	-0.955884	-1.701638
H 0	-3.070013	-1.150066	0.910463
H 0	-1.922596	-2.355584	0.344018
H 0	-4.271044	-3.035915	-0.217712
H 0	-3.349354	-2.759485	-1.704371
H 0	-4.500937	-1.540031	-1.138207
H 0	4.110746	-0.872812	-2.264186

Free Energy (PCM/B3LYP/6-31G*) = -845.157209
Number of imaginary frequencies = 0

Isomer 4

B3LYP/6-31G* geometry

O 0	-1.033289	2.398468	-1.307525
C 0	-1.309094	1.757030	-0.060467
C 0	0.678280	0.161350	-0.028920
C 0	-1.313521	-0.561530	-1.111925
O 0	-0.259163	-0.914446	-0.219931
C 0	-2.179451	0.540084	-0.434725
C 0	0.007517	1.367136	0.661146
C 0	-2.933217	-0.091788	0.713170
C 0	-3.820196	-1.276493	0.366283
C 0	-2.897977	-2.360779	-0.243207
C 0	-2.119753	-1.816389	-1.447000
O 0	-0.187026	1.185333	2.057615
C 0	1.872110	-0.389809	0.744285
C 0	2.643274	-1.482535	-0.005888
C 0	3.832929	-2.022130	0.794523
O 0	-4.508335	-1.744030	1.504244
O 0	-2.806521	0.226783	1.893518
H 0	-0.549321	3.218573	-1.118001
H 0	-1.874618	2.426281	0.602631
H 0	1.009262	0.504132	-1.023418
H 0	-0.886770	-0.137164	-2.031415

H 0 -2.926435 0.879630 -1.165249
 H 0 0.697858 2.216484 0.564483
 H 0 -4.550681 -0.963839 -0.394269
 H 0 -2.206490 -2.697580 0.537727
 H 0 -3.515435 -3.218573 -0.528902
 H 0 -1.433180 -2.578958 -1.830244
 H 0 -2.811765 -1.569770 -2.262388
 H 0 -1.070494 0.789797 2.187637
 H 0 2.545420 0.448778 0.970665
 H 0 1.514310 -0.769403 1.708638
 H 0 2.998419 -1.081877 -0.966088
 H 0 1.957413 -2.302732 -0.248667
 H 0 4.367462 -2.800914 0.238451
 H 0 3.504391 -2.457651 1.746392
 H 0 4.550681 -1.225125 1.026146
 H 0 -4.108918 -1.273962 2.262388
 Free Energy (PCM/B3LYP/6-31G*) = -845.154496
 Number of imaginary frequencies = 0

Isomer 5

B3LYP/6-31G* geometry

O 0	-1.426315	2.622491	0.471689
C 0	-0.913760	1.434452	-0.121333
C 0	1.179176	0.028274	-0.247461
C 0	-0.932108	-1.093326	-0.155630
O 0	0.425825	-1.076661	0.272927
C 0	-1.656162	0.171514	0.340508
C 0	0.563461	1.343074	0.259964
C 0	-3.116174	0.164065	-0.061314
C 0	-3.714053	-1.186071	-0.430794
C 0	-3.133987	-2.275985	0.482534
C 0	-1.589481	-2.380346	0.369048
O 0	1.283899	2.434571	-0.300431
C 0	2.631740	-0.152719	0.183256
C 0	3.303802	-1.395421	-0.414482
C 0	4.758955	-1.554139	0.037120
O 0	-5.121996	-1.148355	-0.358342
O 0	-3.812935	1.173592	-0.078904
H 0	-2.381850	2.630273	0.275423
H 0	-0.976216	1.502730	-1.220030
H 0	1.117334	0.021968	-1.349144
H 0	-0.949256	-1.090069	-1.258131
H 0	-1.647905	0.157490	1.442557
H 0	0.631998	1.357520	1.360239
H 0	-3.387904	-1.384384	-1.470220
H 0	-3.432171	-2.043503	1.511298
H 0	-3.603055	-3.230494	0.226975
H 0	-1.165347	-2.589882	1.356526
H 0	-1.304293	-3.211190	-0.283744
H 0	0.767001	3.230494	-0.087114
H 0	3.183178	0.748330	-0.110617
H 0	2.663710	-0.201576	1.280993
H 0	3.264617	-1.333384	-1.511298
H 0	2.729369	-2.286512	-0.134652
H 0	5.217806	-2.445626	-0.405607
H 0	4.826822	-1.650924	1.127830
H 0	5.362739	-0.686392	-0.256367
H 0	-5.362739	-0.203289	-0.411874

 Free Energy (PCM/B3LYP/6-31G*) = -845.152813
 Number of imaginary frequencies = 0

Isomer 6

B3LYP/6-31G* geometry

O 0	-1.853193	2.995577	-0.097796
C 0	-1.261905	1.790110	-0.578238
C 0	0.897991	0.479462	-0.471290
C 0	-1.163864	-0.720794	-0.463622
O 0	0.164822	-0.643769	0.036792
C 0	-1.948676	0.537476	-0.020544
C 0	0.205389	1.808750	-0.129482
C 0	-3.422019	0.443433	-0.366644
C 0	-4.109826	-0.883734	-0.016589
C 0	-3.273730	-2.088348	-0.452877
C 0	-1.819871	-2.002350	0.038170
O 0	0.270791	2.041120	1.274409
C 0	2.322524	0.389304	0.072930

C 0 3.078206 -0.865225 -0.382869
 C 0 4.502846 -0.931727 0.176543
 O 0 -4.231380 -0.931990 1.411660
 O 0 -4.053785 1.387435 -0.826688
 H 0 -2.800664 2.918961 -0.317981
 H 0 -1.298815 1.760949 -1.678354
 H 0 0.925506 0.411035 -1.573284
 H 0 -1.130007 -0.742819 -1.567804
 H 0 -1.890501 0.567438 1.076724
 H 0 0.726128 2.614446 -0.672351
 H 0 -5.097085 -0.895867 -0.494645
 H 0 -3.755525 -2.995577 -0.072756
 H 0 -3.296876 -2.146712 -1.548931
 H 0 -1.788625 -2.016654 1.133497
 H 0 -1.249009 -2.866231 -0.318904
 H 0 -0.397225 2.729216 1.446838
 H 0 2.866734 1.286667 -0.252096
 H 0 2.278177 0.427180 1.167772
 H 0 3.114031 -0.887531 -1.481464
 H 0 2.516362 -1.754461 -0.073914
 H 0 5.021038 -1.836653 -0.160960
 H 0 4.496934 -0.939757 1.273592
 H 0 5.097085 -0.067091 -0.144752
 H 0 -4.884094 -0.263504 1.678354
 Free Energy (PCM/B3LYP/6-31G*) = -845.152988
 Number of imaginary frequencies = 0

Isomer 7

B3LYP/6-31G* geometry

O 0	-1.097277	2.153571	-1.047327
C 0	-1.098544	1.622213	0.282275
C 0	0.967430	0.183382	-0.112830
C 0	-1.175113	-0.823856	-0.405075
O 0	0.143891	-0.976107	0.100871
C 0	-1.892717	0.314603	0.369904
C 0	0.376427	1.393401	0.644775
C 0	-3.315105	0.422419	-0.142420
C 0	-4.132696	-0.867412	-0.005227
C 0	-3.388306	-1.996096	-0.736064
C 0	-1.930193	-2.143148	-0.265477
O 0	1.120698	2.578960	0.386425
C 0	2.380290	-0.160614	0.347330
C 0	3.058414	-1.251380	-0.490999
C 0	4.467311	-1.590645	0.005593
O 0	-4.242354	-1.241902	1.369461
O 0	-3.764961	1.423419	-0.686241
H 0	-2.031996	2.346330	-1.247978
H 0	-1.522898	2.364130	0.974161
H 0	0.974429	0.422420	-1.188928
H 0	-1.122622	-0.537773	-1.467935
H 0	-1.947005	-0.010436	1.417290
H 0	0.448407	1.195868	1.721189
H 0	-5.120300	-0.700928	-0.453144
H 0	-3.939118	-2.928846	-0.573619
H 0	-3.417854	-1.786539	-1.813009
H 0	-1.902774	-2.459536	0.783415
H 0	-1.424117	-2.916257	-0.853872
H 0	0.753593	2.928846	-0.446395
H 0	2.974391	0.760664	0.315497
H 0	2.334359	-0.474131	1.400396
H 0	3.108366	-0.921369	-1.538429
H 0	2.433914	-2.152815	-0.480783
H 0	4.931120	-2.368227	-0.612166
H 0	4.445205	-1.955229	1.040132
H 0	5.120300	-0.709258	-0.020442
H 0	-4.814141	-0.594099	1.813009

 Free Energy (PCM/B3LYP/6-31G*) = -845.153563
 Number of imaginary frequencies = 0

Isomer 8

B3LYP/6-31G* geometry

O 0	-1.171750	2.374987	-1.550432
C 0	-1.186516	1.984479	-0.179794
C 0	0.919350	0.607633	-0.422695
C 0	-1.163092	-0.541771	-0.565405
O 0	0.165062	-0.563750	-0.043017

C 0 -1.942112 0.661786 0.035320
 C 0 0.279076 1.820742 0.270239
 C 0 -3.347792 0.635103 -0.528684
 C 0 -4.120203 -0.654212 -0.224567
 C 0 -3.311751 -1.847168 -0.759853
 C 0 -1.861007 -1.859765 -0.244744
 O 0 0.342838 1.687290 1.690333
 C 0 2.379066 0.374262 -0.043329
 C 0 3.032846 -0.790487 -0.797626
 C 0 4.497780 -1.001626 -0.402622
 O 0 -4.261203 -0.825721 1.187203
 O 0 -3.817187 1.525650 -1.226465
 H 0 -2.111844 2.428580 -1.806278
 H 0 -1.648397 2.767597 0.439291
 H 0 0.836011 0.746384 -1.510410
 H 0 -1.106588 -0.408148 -1.657245
 H 0 -2.030155 0.471970 1.113078
 H 0 0.826110 2.732953 0.008341
 H 0 -5.098179 -0.597153 -0.718547
 H 0 -3.829612 -2.767597 -0.469644
 H 0 -3.320191 -1.803145 -1.856473
 H 0 -1.846906 -2.016552 0.839799
 H 0 -1.308914 -2.687041 -0.703750
 H 0 0.195304 0.743817 1.878714
 H 0 2.929083 1.303235 -0.247885
 H 0 2.446623 0.205251 1.038748
 H 0 2.967134 -0.602966 -1.878714
 H 0 2.461278 -1.706654 -0.607693
 H 0 4.941982 -1.837697 -0.954757
 H 0 4.591163 -1.221367 0.668165
 H 0 5.098179 -0.107187 -0.610499
 H 0 -4.869301 -0.142336 1.514087
 Free Energy (PCM/B3LYP/6-31G*) = -845.151598
 Number of imaginary frequencies = 0

Isomer 9

B3LYP/6-31G* geometry

O 0 0.676500 -0.108450 -1.285749
 C 0 -1.274503 0.864750 -0.202024
 C 0 0.940930 2.055831 -0.224520
 C 0 -0.386153 1.879337 0.541627
 C 0 1.627519 0.723192 -0.575862
 C 0 -0.491301 -0.434583 -0.533692
 C 0 -1.355134 -1.400292 -1.340283
 C 0 -2.642850 -1.742315 -0.574009
 C 0 -3.461866 -0.483620 -0.200449
 C 0 -2.546326 0.495322 0.521909
 O 0 -2.833815 0.882388 1.650772
 C 0 2.337402 0.003242 0.577266
 C 0 3.068986 -1.268903 0.129295
 C 0 3.823156 -1.951093 1.274931
 O 0 -0.092605 1.463187 1.871308
 O 0 0.684669 2.787533 -1.428041
 O 0 -4.578385 -0.809451 0.596695
 H 0 -1.571151 1.304882 -1.165213
 H 0 1.612408 2.672293 0.382124
 H 0 -0.890148 2.856132 0.550207
 H 0 2.377590 0.952876 -1.342026
 H 0 -0.201165 -0.915601 0.410248
 H 0 -0.786767 -2.314219 -1.543524
 H 0 -1.592665 -0.944013 -2.310145
 H 0 -2.402375 -2.272262 0.356550
 H 0 -3.280232 -2.406252 -1.166384
 H 0 -3.797596 0.005315 -1.129628
 H 0 3.063584 0.713159 0.997714
 H 0 1.637300 -0.222669 1.387140
 H 0 3.773343 -1.016383 -0.676118
 H 0 2.346417 -1.970090 -0.306435
 H 0 4.336085 -2.856132 0.929918
 H 0 3.138966 -2.241899 2.081646
 H 0 4.578385 -1.282548 1.706491
 H 0 -0.958488 1.374252 2.310145
 H 0 0.439523 2.130794 -2.102199
 H 0 -4.459056 -0.310454 1.428964
 Free Energy (PCM/B3LYP/6-31G*) = -845.151615
 Number of imaginary frequencies = 0

Isomer 10

B3LYP/6-31G* geometry

O 0 0.618004 -0.623314 -1.502989
 C 0 -1.247189 0.725712 -0.736407
 C 0 1.022995 1.754939 -1.093098
 C 0 -0.300241 1.859505 -0.321654
 C 0 1.630445 0.324300 -1.099053
 C 0 -0.534735 -0.651096 -0.671618
 C 0 -1.466875 -1.765234 -1.142235
 C 0 -2.749876 -1.794222 -0.296629
 C 0 -3.498804 -0.440273 -0.312241
 C 0 -2.521590 0.662593 0.071652
 O 0 -2.764156 1.391113 1.028838
 C 0 2.369682 -0.089830 0.180917
 C 0 3.045992 -1.461736 0.064901
 C 0 3.821908 -1.847943 1.328183
 O 0 0.021859 1.813788 1.070565
 O 0 1.946239 2.724649 -0.613507
 O 0 -4.609631 -0.451292 0.556239
 H 0 -1.531071 0.873832 -1.788856
 H 0 0.809975 2.014402 -2.136618
 H 0 -0.760829 2.829259 -0.558126
 H 0 2.353354 0.288707 -1.922632
 H 0 -0.244507 -0.842874 0.370917
 H 0 -0.948905 -2.727488 -1.069272
 H 0 -1.706759 -1.606144 -2.201636
 H 0 -2.512195 -2.033297 0.747833
 H 0 -3.432517 -2.570587 -0.656275
 H 0 -3.833938 -0.237200 -1.342719
 H 0 3.130174 0.677256 0.373929
 H 0 1.694235 -0.072713 1.043148
 H 0 3.728283 -1.456630 -0.797321
 H 0 2.287344 -2.224228 -0.151055
 H 0 4.297945 -2.829259 1.218975
 H 0 3.159611 -1.893875 2.201636
 H 0 4.609631 -1.116791 1.548481
 H 0 -0.813821 1.982574 1.541896
 H 0 1.828138 2.735307 0.353526
 H 0 -4.449907 0.273067 1.193205
 Free Energy (PCM/B3LYP/6-31G*) = -845.152899
 Number of imaginary frequencies = 0

Isomer 11

B3LYP/6-31G* geometry

O 0 -0.624843 -0.546955 1.190414
 C 0 1.377474 0.398033 0.206845
 C 0 -0.743567 1.712947 0.203232
 C 0 0.548679 1.424909 -0.573103
 C 0 -1.498390 0.426525 0.584914
 C 0 0.528737 -0.878913 0.428121
 C 0 1.318053 -1.959779 1.162053
 C 0 2.598220 -2.310065 0.388878
 C 0 3.498633 -1.076403 0.190858
 C 0 2.708667 0.072120 -0.425806
 O 0 3.174737 0.690409 -1.378239
 C 0 -2.324839 -0.156746 -0.573175
 C 0 -3.142285 -1.390891 -0.172038
 C 0 -3.988717 -1.940874 -1.324237
 O 0 1.220426 2.674055 -0.718169
 O 0 -0.425745 2.413147 1.405165
 O 0 4.628164 -1.384699 -0.595338
 H 0 1.587688 0.810645 1.204458
 H 0 -1.399503 2.332436 -0.427522
 H 0 0.299341 1.012766 -1.561803
 H 0 -2.184735 0.695013 1.395858
 H 0 0.229949 -1.273672 -0.556330
 H 0 0.691053 -2.850228 1.276937
 H 0 1.562013 -1.602106 2.170872
 H 0 2.349531 -2.717007 -0.599577
 H 0 3.170489 -3.078895 0.917604
 H 0 3.812857 -0.717911 1.188433
 H 0 -3.002791 0.632247 -0.925981
 H 0 -1.681014 -0.405190 -1.427548
 H 0 -3.795508 -1.128969 0.672344
 H 0 -2.464570 -2.170487 0.195925

H 0 -4.564786 -2.818524 -1.009505
 H 0 -3.359064 -2.241522 -2.170872
 H 0 -4.698685 -1.188860 -1.690232
 H 0 2.066514 2.468967 -1.155823
 H 0 0.236853 3.078895 1.146332
 H 0 4.698685 -0.658952 -1.246349
 Free Energy (PCM/B3LYP/6-31G*) = -845.154932
 Number of imaginary frequencies = 0

Isomer 12

B3LYP/6-31G* geometry

O 0	0.609529	-0.899411	-1.417453
C 0	-1.296609	0.310779	-0.522265
C 0	0.902856	1.437428	-0.797923
C 0	-0.362427	1.373773	0.058066
C 0	1.579254	0.055708	-0.938361
C 0	-0.5447744	-1.044447	-0.600606
C 0	-1.441243	-2.139168	-1.176759
C 0	-2.711678	-2.295399	-0.324763
C 0	-3.507962	-0.978523	-0.224537
C 0	-2.596934	0.154933	0.231395
O 0	-2.931826	0.876356	1.164230
C 0	2.333429	-0.418563	0.311673
C 0	3.046809	-1.761219	0.107714
C 0	3.842882	-2.201835	1.340097
O 0	-0.928419	2.683203	0.044586
O 0	1.834428	2.366797	-0.261003
O 0	-4.612771	-1.110227	0.642279
H 0	-1.556968	0.589509	-1.554877
H 0	0.589746	1.756949	-1.805550
H 0	-0.092705	1.098491	1.087952
H 0	2.301972	0.121482	-1.759366
H 0	-0.251816	-1.337872	0.418466
H 0	-0.887623	-3.083673	-1.201800
H 0	-1.698315	-1.885981	-2.213435
H 0	-2.450228	-2.613353	0.692550
H 0	-3.364939	-3.066721	-0.744611
H 0	-3.850708	-0.704414	-1.238491
H 0	3.064613	0.358934	0.561047
H 0	1.661098	-0.486818	1.176980
H 0	3.722067	-1.681935	-0.756233
H 0	2.309235	-2.530581	-0.151535
H 0	4.343553	-3.161456	1.167476
H 0	3.189292	-2.319154	2.213435
H 0	4.612771	-1.464596	1.599220
H 0	-1.660237	2.664384	0.685392
H 0	1.312955	3.161456	-0.051727
H 0	-4.560281	-0.345422	1.249030

 Free Energy (PCM/B3LYP/6-31G*) = -845.153345
 Number of imaginary frequencies = 0

Isomer 13

B3LYP/6-31G* geometry

O 0	-0.831171	2.568096	-0.193725
C 0	-0.473944	1.231281	-0.542505
C 0	1.404939	-0.358825	-1.034067
C 0	-0.604341	-1.249563	0.011862
O 0	0.816478	-1.296285	-0.119552
C 0	-1.081436	0.179265	0.410801
C 0	1.047705	1.066564	-0.591694
C 0	-2.595352	0.262152	0.448875
C 0	-3.368009	-0.334716	-0.724124
C 0	-2.872993	-1.771612	-0.978091
C 0	-1.355460	-1.807681	-1.209007
O 0	1.608392	1.989322	-1.514495
C 0	2.908631	-0.642012	-1.131553
C 0	3.792134	-0.297528	0.080696
C 0	3.573049	-1.159876	1.329688
O 0	-4.753249	-0.296101	-0.464442
O 0	-3.208219	0.747633	1.388660
H 0	-0.587536	2.714419	0.736996
H 0	-0.858842	1.106387	-1.559990
H 0	0.981240	-0.507460	-2.039102
H 0	-0.809382	-1.913440	0.858869
H 0	-0.721621	0.398858	1.423805
H 0	1.446383	1.239058	0.421826

H 0	-3.139390	0.274005	-1.616063
H 0	-3.145404	-2.389356	-0.112267
H 0	-3.405385	-2.177920	-1.843989
H 0	-1.022156	-2.837110	-1.377177
H 0	-1.108989	-1.243694	-2.116150
H 0	1.162647	2.837110	-1.338631
H 0	3.021622	-1.705410	-1.381381
H 0	3.273258	-0.078510	-1.998455
H 0	3.669395	0.763493	0.334625
H 0	4.836851	-0.403252	-0.241222
H 0	2.562341	-1.042088	1.729632
H 0	4.288477	-0.891449	2.116150
H 0	3.712996	-2.223585	1.099898
H 0	-4.836851	0.179756	0.386864

 Free Energy (PCM/B3LYP/6-31G*) = -845.146401
 Number of imaginary frequencies = 0

Isomer 14

B3LYP/6-31G* geometry

O 0	0.246950	1.395859	1.866370
C 0	-0.550244	1.413310	0.682914
C 0	0.976575	-0.029553	-0.818958
C 0	-0.759982	-1.105344	0.488385
O 0	-0.061249	-1.026493	-0.760468
C 0	-1.514960	0.225127	0.739745
C 0	0.343237	1.357014	-0.569878
C 0	-2.674400	0.358618	-0.240467
C 0	-3.631749	-0.839121	-0.284028
C 0	-2.838055	-2.112255	-0.591713
C 0	-1.696984	-2.311924	0.415453
O 0	1.400850	2.317759	-0.443891
C 0	2.197281	-0.373908	0.047701
C 0	2.831961	-1.720660	-0.322628
C 0	4.076860	-2.035544	0.512739
O 0	-4.254041	-1.013791	0.993855
O 0	-2.847229	1.334701	-0.953226
H 0	1.023526	1.943810	1.647396
H 0	-1.130997	2.347321	0.640896
H 0	1.300145	-0.055910	-1.866370
H 0	-0.045645	-1.251412	1.307049
H 0	-1.956047	0.175245	1.744740
H 0	-0.283943	1.593047	-1.436976
H 0	-4.380078	-0.643689	-1.062765
H 0	-3.525015	-2.966018	-0.576058
H 0	-2.433609	-2.033675	-1.607254
H 0	-2.112071	-2.485049	1.414281
H 0	-1.107851	-3.196637	0.149946
H 0	1.022774	3.196637	-0.612395
H 0	2.930944	0.428627	-0.094836
H 0	1.934345	-0.358932	1.110994
H 0	3.098223	-1.713477	-1.389509
H 0	2.091425	-2.520558	-0.198876
H 0	3.835024	-2.080537	1.581909
H 0	4.848115	-1.266537	0.380453
H 0	4.514092	-2.999786	0.228913
H 0	-4.848115	-0.259969	1.142356

 Free Energy (PCM/B3LYP/6-31G*) = -845.144572
 Number of imaginary frequencies = 0

Isomer 15

B3LYP/6-31G* geometry

O 0	0.727033	0.904948	1.404434
C 0	0.518483	1.250777	0.039373
C 0	-1.621366	-0.087523	-0.222673
C 0	0.452652	-1.128693	-0.955191
O 0	-0.941869	-0.916169	-1.174573
C 0	1.207393	0.226314	-0.889500
C 0	-0.996578	1.313390	-0.240975
C 0	2.671929	0.039594	-0.523980
C 0	3.026445	-0.976320	0.556675
C 0	2.277299	-2.299055	0.323157
C 0	0.762924	-2.066109	0.221184
O 0	-1.616662	2.073857	0.804013
C 0	-3.100226	-0.083893	-0.608080
C 0	-3.791554	-1.453404	-0.502671
C 0	-3.919052	-1.989691	0.928434

O 0 4.425294 -1.174328 0.598043
 O 0 3.565983 0.668645 -1.074355
 H 0 0.027876 1.384958 1.889260
 H 0 0.959289 2.240429 -0.162343
 H 0 -1.499956 -0.494466 0.789989
 H 0 0.780643 -1.635260 -1.871029
 H 0 1.194164 0.675331 -1.889260
 H 0 -1.173635 1.774601 -1.221382
 H 0 2.668845 -0.540399 1.503757
 H 0 2.659720 -2.759570 -0.597619
 H 0 2.510345 -2.983896 1.145179
 H 0 0.243816 -3.016485 0.054440
 H 0 0.392383 -1.642959 1.159767
 H 0 -1.468526 3.016485 0.622457
 H 0 -3.612561 0.643438 0.032697
 H 0 -3.178138 0.285852 -1.639651
 H 0 -3.248903 -2.177674 -1.122119
 H 0 -4.794497 -1.363037 -0.939876
 H 0 -4.466141 -2.939369 0.942117
 H 0 -4.461073 -1.282885 1.569314
 H 0 -2.940145 -2.170060 1.387684
 H 0 4.794497 -0.472940 0.024515

Free Energy (PCM/B3LYP/6-31G*) = -845.149673
 Number of imaginary frequencies = 0

Isomer 16

B3LYP/6-31G* geometry

O 0 1.335207 1.089921 1.490433
 C 0 1.012787 1.704569 0.242389
 C 0 -1.132740 0.419274 -0.023363
 C 0 0.822388 -0.459001 -1.173191
 O 0 -0.591045 -0.214701 -1.199591
 C 0 1.607499 0.856862 -0.908899
 C 0 -0.518101 1.821256 0.064889
 C 0 3.093166 0.605423 -0.703722
 C 0 3.525368 -0.619121 0.095683
 C 0 2.739620 -1.863523 -0.345721
 C 0 1.226604 -1.617987 -0.250873
 O 0 -0.826615 2.594909 -1.092046
 C 0 -2.653571 0.414466 -0.156969
 C 0 -3.264730 -0.992069 -0.190058
 C 0 -4.791335 -0.969464 -0.315086
 O 0 4.919053 -0.815790 -0.030143
 O 0 3.945687 1.353931 -1.162578
 H 0 1.075901 1.698720 2.201389
 H 0 1.454833 2.708176 0.184703
 H 0 -0.844166 -0.141526 0.874349
 H 0 1.046130 -0.766642 -2.201389
 H 0 1.529077 1.489029 -1.799781
 H 0 -0.930850 2.360351 0.926443
 H 0 3.257605 -0.395457 1.141768
 H 0 3.027227 -2.115341 -1.375332
 H 0 3.034512 -2.708176 0.285569
 H 0 0.676298 -2.514195 -0.557344
 H 0 0.956936 -1.402143 0.787662
 H 0 -0.816859 1.970025 -1.839090
 H 0 -3.064507 0.976580 0.693148
 H 0 -2.935646 0.967082 -1.062200
 H 0 -2.978770 -1.531766 0.723905
 H 0 -2.831979 -1.551569 -1.027668
 H 0 -5.203531 -1.984768 -0.336102
 H 0 -5.105412 -0.462552 -1.235990
 H 0 -5.251445 -0.439251 0.528058
 H 0 5.251445 0.005595 -0.444783

Free Energy (PCM/B3LYP/6-31G*) = -845.149026
 Number of imaginary frequencies = 0

Isomer 17

B3LYP/6-31G* geometry

O 0 2.248090 2.832816 0.009273
 C 0 1.524868 1.705365 0.490926
 C 0 -0.482931 0.218814 0.150367
 C 0 1.484736 -0.710251 1.182188
 O 0 0.396181 -0.910270 0.267472
 C 0 2.376993 0.429950 0.654946
 C 0 0.306980 1.418726 -0.396245

C 0 3.085043 0.024188 -0.630017
 C 0 3.160105 -1.457086 -0.965346
 C 0 3.385504 -2.256021 0.323200
 C 0 2.229290 -2.050428 1.329323
 O 0 -0.538546 2.559766 -0.433073
 C 0 -1.650719 -0.185231 -0.744236
 C 0 -2.528699 -1.298057 -0.157518
 C 0 -3.692236 -1.678338 -1.078619
 O 0 4.176396 -1.704766 -1.913166
 O 0 3.615842 0.842897 -1.376788
 H 0 2.814720 2.503451 -0.716554
 H 0 1.151119 1.994069 1.481117
 H 0 -0.859039 0.486047 1.152870
 H 0 1.070734 -0.410849 2.156359
 H 0 3.176326 0.639753 1.381711
 H 0 0.657021 1.169332 -1.412856
 H 0 2.168517 -1.719455 -1.373580
 H 0 3.491272 -3.315090 0.069149
 H 0 4.341374 -1.939036 0.757327
 H 0 1.477406 -2.838784 1.221388
 H 0 2.621675 -2.125242 2.348318
 H 0 0.061705 3.315090 -0.567601
 H 0 -2.256073 0.710999 -0.926312
 H 0 -1.247897 -0.499580 -1.717564
 H 0 -2.922873 -0.970804 0.815024
 H 0 -1.908944 -2.180579 0.040931
 H 0 -4.305791 -2.471888 -0.637018
 H 0 -3.328029 -2.038767 -2.048659
 H 0 -4.345138 -0.817497 -1.269143
 H 0 4.345138 -0.847043 -2.348318

Free Energy (PCM/B3LYP/6-31G*) = -845.153429
 Number of imaginary frequencies = 0

Isomer 18

B3LYP/6-31G* geometry

O 0 2.662521 3.097897 0.168556
 C 0 1.802187 2.076742 0.666701
 C 0 -0.348468 0.819870 0.230190
 C 0 1.481986 -0.380796 1.205333
 O 0 0.387274 -0.408138 0.284395
 C 0 2.499245 0.696534 0.779894
 C 0 0.552480 1.974417 -0.222863
 C 0 3.235729 0.304002 -0.489634
 C 0 3.015388 -1.088355 -1.046791
 C 0 3.110993 -2.089092 0.120446
 C 0 2.086703 -1.793474 1.245886
 O 0 0.943413 1.763787 -1.577138
 C 0 -1.560568 0.600884 -0.673961
 C 0 -2.539468 -0.454746 -0.145598
 C 0 -3.749555 -0.649857 -1.064571
 O 0 3.959916 -1.379039 -2.055286
 O 0 4.067429 1.046497 -1.012000
 H 0 3.409300 2.656592 -0.284219
 H 0 1.487010 2.371454 1.676202
 H 0 -0.695619 1.065619 1.249348
 H 0 1.094933 -0.121403 2.203029
 H 0 3.278324 0.782257 1.551224
 H 0 -0.014575 2.913796 -0.130948
 H 0 1.994649 -1.107652 -1.454831
 H 0 2.969442 -3.097897 -0.278893
 H 0 4.135420 -2.046172 0.508565
 H 0 1.247201 -2.494258 1.201721
 H 0 2.566432 -1.936682 2.219422
 H 0 1.571333 2.480455 -1.776555
 H 0 -2.078390 1.563781 -0.782375
 H 0 -1.204750 0.321316 -1.672648
 H 0 -2.883167 -0.160830 0.856448
 H 0 -2.009140 -1.406452 -0.023705
 H 0 -4.432404 -1.409632 -0.667431
 H 0 -3.438311 -0.971784 -2.066107
 H 0 -4.316903 0.282381 -1.178258
 H 0 4.432404 -0.539463 -2.219422

Free Energy (PCM/B3LYP/6-31G*) = -845.153135
 Number of imaginary frequencies = 0

Isomer 19

B3LYP/6-31G* geometry

O 0 -0.510417 2.471863 -1.370480
 C 0 -0.869321 1.863395 -0.117327
 C 0 1.081615 0.231653 -0.187166
 C 0 -1.032688 -0.493240 -1.040525
 O 0 0.115572 -0.828931 -0.258434
 C 0 -1.799351 0.661480 -0.344877
 C 0 0.462856 1.449331 0.529543
 C 0 -2.442718 0.154757 0.940381
 C 0 -3.321080 -1.092794 0.778619
 C 0 -2.503220 -2.212513 0.128308
 C 0 -1.882470 -1.753499 -1.199326
 O 0 1.355908 2.557707 0.534373
 C 0 2.316203 -0.305014 0.529969
 C 0 3.045416 -1.416205 -0.234715
 C 0 4.278331 -1.938217 0.509795
 O 0 -4.422467 -0.799331 -0.088829
 O 0 -2.284920 0.686997 2.027521
 H 0 -1.221084 3.078454 -1.630002
 H 0 -1.356461 2.602402 0.528568
 H 0 1.352637 0.534121 -1.212795
 H 0 -0.703632 -0.136959 -2.027521
 H 0 -2.623820 0.964063 -1.005888
 H 0 0.271644 1.181198 1.573380
 H 0 -3.672979 -1.390037 1.774836
 H 0 -1.714487 -2.516668 0.825891
 H 0 -3.156659 -3.078454 -0.026966
 H 0 -1.255512 -2.548275 -1.618283
 H 0 -2.675162 -1.546231 -1.926422
 H 0 1.209642 2.991410 -0.327239
 H 0 2.993864 0.540314 0.700428
 H 0 2.010022 -0.672144 1.520360
 H 0 3.346494 -1.036232 -1.221404
 H 0 2.347513 -2.241220 -0.421587
 H 0 4.782908 -2.728054 -0.058551
 H 0 4.004003 -2.353984 1.487348
 H 0 5.005839 -1.135617 0.684600
 H 0 -5.005839 -0.173813 0.371261

Free Energy (PCM/B3LYP/6-31G*) = -845.151295
 Number of imaginary frequencies = 0

Isomer 20

B3LYP/6-31G* geometry

O 0 -0.937302 2.304901 -1.709883
 C 0 -1.032193 1.872555 -0.349883
 C 0 1.015300 0.353431 -0.299521
 C 0 -1.057181 -0.590610 -0.989079
 O 0 0.111910 -0.761405 -0.188937
 C 0 -1.884901 0.591997 -0.403926
 C 0 0.378307 1.645923 0.254583
 C 0 -2.459332 0.132462 0.919170
 C 0 -3.373218 -1.090180 0.826466
 C 0 -2.496048 -2.250373 0.325740
 C 0 -1.838300 -1.905174 -1.018760
 O 0 0.358663 1.705126 1.674296
 C 0 2.315399 -0.027937 0.400896
 C 0 3.041736 -1.213899 -0.246178
 C 0 4.341604 -1.578935 0.477721
 O 0 -4.426761 -0.903977 -0.116735
 O 0 -2.160081 0.603341 2.011440
 H 0 -0.450950 3.145203 -1.718816
 H 0 -1.541823 2.631078 0.261375
 H 0 1.211342 0.527204 -1.371079
 H 0 -0.758324 -0.318546 -2.011440
 H 0 -2.731923 0.771870 -1.077065
 H 0 1.013482 2.481559 -0.071435
 H 0 -3.764463 -1.301708 1.829362
 H 0 -1.730939 -2.458397 1.082340
 H 0 -3.121723 -3.145203 0.234827
 H 0 -1.155666 -2.706622 -1.321817
 H 0 -2.608424 -1.824820 -1.793279
 H 0 -0.482061 1.302098 1.972555
 H 0 2.972200 0.853232 0.400195
 H 0 2.090196 -0.246256 1.451463
 H 0 3.262017 -0.974859 -1.296460
 H 0 2.370264 -2.080588 -0.261513

H 0 4.840940 -2.427884 -0.003460

H 0 4.149404 -1.853364 1.522435

H 0 5.044422 -0.736345 0.481075

H 0 -5.044422 -0.248626 0.246569

Free Energy (PCM/B3LYP/6-31G*) = -845.149134

Number of imaginary frequencies = 0

Isomer 21

B3LYP/6-31G* geometry

O 0 -1.096902 2.660432 0.413141
 C 0 -0.559149 1.454562 -0.125279
 C 0 1.572022 0.089747 -0.184136
 C 0 -0.529005 -1.052529 -0.159617
 O 0 0.812915 -1.026263 0.308956
 C 0 -1.275399 0.198376 0.371958
 C 0 0.913344 1.403527 0.280375
 C 0 -2.740763 0.142993 0.006792
 C 0 -3.470350 -1.151983 0.343189
 C 0 -2.674465 -2.363376 -0.183546
 C 0 -1.211117 -2.341853 0.286775
 O 0 1.618513 2.496112 -0.297241
 C 0 3.012384 -0.039125 0.310632
 C 0 3.870215 -1.112444 -0.382153
 C 0 3.516558 -2.565387 -0.042531
 O 0 -4.782278 -1.134614 -0.174197
 O 0 -3.341078 1.064582 -0.534590
 H 0 -1.990901 2.743738 0.037771
 H 0 -0.609671 1.482767 -1.224835
 H 0 1.557216 0.076749 -1.287215
 H 0 -0.525245 -1.013212 -1.262532
 H 0 -1.217964 0.157996 1.470194
 H 0 0.965196 1.449761 1.381146
 H 0 -3.496578 -1.209320 1.446277
 H 0 -3.172588 -3.279138 0.149880
 H 0 -2.722263 -2.351520 -1.279884
 H 0 -1.155971 -2.418093 1.380456
 H 0 -0.671157 -3.200570 -0.125780
 H 0 1.065104 3.279138 -0.131305
 H 0 3.484685 0.938434 0.160839
 H 0 2.987639 -0.214939 1.395263
 H 0 4.918014 -0.931283 -0.107533
 H 0 3.814962 -0.964559 -1.470194
 H 0 4.211587 -3.257911 -0.532177
 H 0 2.500896 -2.817016 -0.359044
 H 0 3.578164 -2.740382 1.038997
 H 0 -4.918014 -0.226161 -0.508989

Free Energy (PCM/B3LYP/6-31G*) = -845.156763

Number of imaginary frequencies = 0

Isomer 22

B3LYP/6-31G* geometry

O 0 -1.529197 2.976096 -0.031753
 C 0 -0.991503 1.731596 -0.471434
 C 0 1.152656 0.387713 -0.424136
 C 0 -0.919484 -0.768973 -0.209777
 O 0 0.437084 -0.688730 0.200606
 C 0 -1.653446 0.529267 0.213719
 C 0 0.503427 1.748817 -0.122763
 C 0 -3.140815 0.428431 -0.024562
 C 0 -3.829310 -0.843231 0.457405
 C 0 -3.049660 -2.089215 -0.001603
 C 0 -1.567898 -2.009944 0.396041
 O 0 0.668497 2.064824 1.256063
 C 0 2.608227 0.304671 0.030737
 C 0 3.312539 -0.990952 -0.391481
 C 0 4.772936 -1.045414 0.067876
 O 0 -5.168407 -0.883887 0.016438
 O 0 -3.801382 1.313790 -0.559644
 H 0 -2.486450 2.927629 -0.206951
 H 0 -1.103377 1.631341 -1.561621
 H 0 1.105206 0.249444 -1.518561
 H 0 -0.959046 -0.848174 -1.310605
 H 0 -1.507785 0.628414 1.299522
 H 0 0.997701 2.508675 -0.749332
 H 0 -3.791238 -0.801732 1.561621
 H 0 -3.519812 -2.976096 0.434825

H 0 -3.148874 -2.175113 -1.091181
 H 0 -1.463270 -1.972846 1.488150
 H 0 -1.035526 -2.902004 0.049633
 H 0 0.043054 2.791641 1.427716
 H 0 3.142847 1.168599 -0.387288
 H 0 2.637935 0.413615 1.121247
 H 0 3.268423 -1.087176 -1.485784
 H 0 2.763244 -1.847592 0.016210
 H 0 5.252903 -1.980301 -0.243357
 H 0 4.846989 -0.979669 1.160502
 H 0 5.353528 -0.215323 -0.353642
 H 0 -5.353528 0.008110 -0.337858
 Free Energy (PCM/B3LYP/6-31G*) = -845.158207
 Number of imaginary frequencies = 0

Isomer 23

B3LYP/6-31G* geometry

O 0	1.021685	2.108023	1.086003
C 0	0.922412	1.680765	-0.276678
C 0	-1.141794	0.246955	0.155559
C 0	0.994838	-0.808821	0.230732
O 0	-0.355427	-0.905845	-0.195086
C 0	1.678968	0.368249	-0.516143
C 0	-0.578699	1.500326	-0.552048
C 0	3.137158	0.419514	-0.125584
C 0	3.930169	-0.860310	-0.352219
C 0	3.198767	-2.025082	0.357194
C 0	1.718721	-2.123543	-0.046112
O 0	-1.279658	2.674721	-0.160442
C 0	-2.587736	-0.043224	-0.232996
C 0	-3.226149	-1.190066	0.560580
C 0	-4.673405	-1.466804	0.141431
O 0	5.254097	-0.718682	0.112170
O 0	3.670934	1.384949	0.411533
H 0	1.959021	2.329127	1.229655
H 0	1.313597	2.465553	-0.938869
H 0	-1.073814	0.406489	1.244011
H 0	1.020885	-0.593609	1.310679
H 0	1.632164	0.121143	-1.586973
H 0	-0.725617	1.382431	-1.632376
H 0	3.935318	-1.057878	-1.436572
H 0	3.725282	-2.956078	0.124812
H 0	3.287845	-1.866262	1.439512
H 0	1.624679	-2.364642	-1.113007
H 0	1.232098	-2.931178	0.511060
H 0	-0.854733	2.956078	0.670803
H 0	-3.162022	0.879563	-0.087479
H 0	-2.618419	-0.271486	-1.308245
H 0	-3.194648	-0.947868	1.632376
H 0	-2.622686	-2.096446	0.430957
H 0	-5.106660	-2.287916	0.723980
H 0	-4.732763	-1.742295	-0.918858
H 0	-5.305405	-0.582238	0.289241
H 0	5.305405	0.185742	0.480043

 Free Energy (PCM/B3LYP/6-31G*) = -845.159232
 Number of imaginary frequencies = 0

Isomer 24

B3LYP/6-31G* geometry

O 0	0.056365	-2.196153	-1.561823
C 0	0.960363	-1.953361	-0.161532
C 0	-1.127495	-0.548712	-0.425560
C 0	0.955985	0.597127	-0.299166
O 0	-0.405186	0.575551	0.123908
C 0	1.688436	-0.659556	0.249053
C 0	-0.537296	-1.829159	0.186480
C 0	3.136419	-0.592699	-0.171655
C 0	3.891399	0.660677	0.249875
C 0	3.107969	1.899891	-0.246046
C 0	1.631882	1.876405	0.183729
O 0	-0.709409	-1.842367	1.603516
C 0	-2.611290	-0.346255	-0.131566
C 0	-3.210600	0.891246	-0.811853
C 0	-4.699794	1.072080	-0.501637
O 0	5.209023	0.646023	-0.252194
O 0	3.690462	-1.435952	-0.870288

H 0	2.009990	-2.272720	-1.746962
H 0	1.374901	-2.797719	0.407260
H 0	-0.964379	-0.577156	-1.512596
H 0	0.982489	0.559384	-1.399228
H 0	1.668558	-0.580814	1.345763
H 0	-1.058277	-2.707285	-0.209832
H 0	3.913127	0.677183	1.351713
H 0	3.606178	2.797719	0.132783
H 0	3.183673	1.926712	-1.340478
H 0	1.547600	1.936574	1.276649
H 0	1.107772	2.744469	-0.230076
H 0	-0.595795	-0.921963	1.898793
H 0	-3.143474	-1.247265	-0.466340
H 0	-2.757515	-0.284480	0.954148
H 0	-3.068932	0.810120	-1.898793
H 0	-2.654650	1.780804	-0.493000
H 0	-5.104461	1.960281	-1.000128
H 0	-4.868303	1.188311	0.576173
H 0	-5.283624	0.205680	-0.836503
H 0	5.283624	-0.183981	-0.763559

 Free Energy (PCM/B3LYP/6-31G*) = -845.156619
 Number of imaginary frequencies = 0

Isomer 25

B3LYP/6-31G* geometry

O 0	0.442401	-0.259354	-1.349633
C 0	-1.425209	0.677678	-0.093879
C 0	0.677046	2.000951	-0.503817
C 0	-0.527798	1.807147	0.439780
C 0	1.409558	0.687101	-0.835484
C 0	-0.599141	-0.593417	-0.430459
C 0	-1.482208	-1.671478	-1.053825
C 0	-2.658798	-2.019688	-0.124934
C 0	-3.494454	-0.787889	0.256184
C 0	-2.556748	0.279980	0.831364
O 0	-2.691800	0.717531	1.967682
C 0	2.305451	0.116061	0.271336
C 0	3.031749	-1.168750	-0.147323
C 0	3.978148	-1.692504	0.937677
O 0	-0.040718	1.535845	1.750714
O 0	0.222419	2.607604	-1.718425
O 0	-4.122411	-0.306040	-0.933933
H 0	-1.889065	1.005101	-1.033724
H 0	1.372181	2.709186	-0.040812
H 0	-1.098724	2.747306	0.434126
H 0	2.041569	0.895015	-1.707242
H 0	-0.158405	-0.979161	0.499350
H 0	-0.882210	-2.567145	-1.248059
H 0	-1.856384	-1.311330	-2.018913
H 0	-2.285793	-2.481375	0.798273
H 0	-3.322761	-2.747306	-0.603944
H 0	-4.236943	-1.044706	1.021821
H 0	3.045383	0.891987	0.513660
H 0	1.733069	-0.049035	1.189038
H 0	3.598651	-0.981092	-1.070385
H 0	2.292050	-1.939838	-0.395642
H 0	4.480446	-2.612437	0.617132
H 0	3.434284	-1.914557	1.864206
H 0	4.753365	-0.954364	1.177822
H 0	-0.842111	1.394958	2.289840
H 0	-0.079958	1.880961	-2.289840
H 0	-4.753365	0.387931	-0.681312

 Free Energy (PCM/B3LYP/6-31G*) = -845.146263
 Number of imaginary frequencies = 0

Isomer 26

B3LYP/6-31G* geometry

O 0	0.406090	-0.679282	-1.341369
C 0	-1.376930	0.673870	-0.395103
C 0	0.812517	1.717610	-1.078326
C 0	-0.406753	1.835736	-0.154147
C 0	1.441355	0.296680	-1.098777
C 0	-0.639277	-0.690871	-0.375132
C 0	-1.599325	-1.834499	-0.696017
C 0	-2.787004	-1.843675	0.282420
C 0	-3.537232	-0.503290	0.314082

C 0 -2.528940 0.618639 0.588291
 O 0 -2.628720 1.361533 1.556979
 C 0 2.332679 -0.053364 0.101416
 C 0 3.002255 -1.427245 -0.029896
 C 0 3.915490 -1.757143 1.154950
 O 0 0.086660 1.862812 1.188127
 O 0 1.770242 2.719684 -0.756550
 O 0 -4.143089 -0.316005 -0.967060
 H 0 -1.813240 0.772467 -1.398193
 H 0 0.468510 1.928217 -2.097706
 H 0 -0.913007 2.787371 -0.374161
 H 0 2.063595 0.235650 -1.999770
 H 0 -0.220005 -0.844802 0.629417
 H 0 -1.061917 -2.787371 -0.639165
 H 0 -1.957180 -1.720963 -1.725571
 H 0 -2.435172 -2.064809 1.298352
 H 0 -3.501796 -2.628011 0.010927
 H 0 -4.287915 -0.497543 1.114146
 H 0 3.104335 0.724200 0.167263
 H 0 1.763606 0.002647 1.035700
 H 0 3.584290 -1.459011 -0.962260
 H 0 2.229500 -2.199939 -0.126980
 H 0 4.380691 -2.742737 1.037393
 H 0 3.354329 -1.763639 2.097706
 H 0 4.720009 -1.017754 1.254512
 H 0 -0.701680 1.991557 1.748172
 H 0 1.771129 2.768414 0.216519
 H 0 -4.720009 0.463780 -0.915625
 Free Energy (PCM/B3LYP/6-31G*) = -845.147626
 Number of imaginary frequencies = 0

Isomer 27

B3LYP/6-31G* geometry

O 0	0.456328	-0.420609	-1.255437
C 0	-1.492962	0.479519	-0.129579
C 0	0.528756	1.912806	-0.455436
C 0	-0.656343	1.614022	0.472256
C 0	1.321653	0.645274	-0.820703
C 0	-0.590765	-0.757465	-0.350042
C 0	-1.374953	-1.936290	-0.917965
C 0	-2.546091	-2.295890	0.010029
C 0	-3.494229	-1.116513	0.234759
C 0	-2.734938	0.143486	0.672416
O 0	-3.157909	0.864482	1.568707
C 0	2.298763	0.203833	0.281549
C 0	3.137635	-1.019210	-0.108604
C 0	4.126082	-1.434028	0.985611
O 0	-1.391650	2.830488	0.592935
O 0	0.044401	2.498446	-1.663107
O 0	-4.122677	-0.819062	-1.019334
H 0	-1.840464	0.793110	-1.124062
H 0	1.204382	2.616638	0.055101
H 0	-0.281073	1.302004	1.458392
H 0	1.903049	0.886621	-1.717972
H 0	-0.164305	-1.057685	0.621156
H 0	-0.705858	-2.796082	-1.031049
H 0	-1.746646	-1.674587	-1.914972
H 0	-2.164550	-2.623492	0.986046
H 0	-3.125107	-3.127963	-0.404736
H 0	-4.241611	-1.352172	1.002421
H 0	2.964386	1.051505	0.494180
H 0	1.764229	-0.001911	1.218627
H 0	3.685765	-0.797235	-1.035273
H 0	2.468931	-1.856280	-0.342238
H 0	4.713308	-2.307520	0.679908
H 0	3.603385	-1.692446	1.914972
H 0	4.828502	-0.623211	1.215476
H 0	-2.187860	2.595305	1.105738
H 0	-0.643842	3.127963	-1.380610
H 0	-4.828502	-0.172352	-0.853808

 Free Energy (PCM/B3LYP/6-31G*) = -845.149360
 Number of imaginary frequencies = 0

Isomer 28

B3LYP/6-31G* geometry

O 0	0.466218	-0.951686	-1.401880
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C 0 -1.381082 0.236712 -0.357324
 C 0 0.724752 1.423923 -0.941905
 C 0 -0.431166 1.361191 0.054684
 C 0 1.440770 0.062763 -1.081908
 C 0 -0.594360 -1.092283 -0.458742
 C 0 -1.499385 -2.240347 -0.893206
 C 0 -2.669025 -2.400515 0.093234
 C 0 -3.488940 -1.115856 0.249628
 C 0 -2.583154 0.085635 0.556512
 O 0 -2.842855 0.882775 1.447858
 C 0 2.341754 -0.314446 0.102235
 C 0 3.106383 -1.625401 -0.121871
 C 0 4.021700 -1.985964 1.052180
 O 0 -1.051192 2.646863 0.045649
 O 0 1.666949 2.420878 -0.567200
 O 0 -4.141820 -0.864078 -1.001225
 H 0 -1.778840 0.448325 -1.360759
 H 0 0.287307 1.669622 -1.923688
 H 0 -0.034064 1.152841 1.059407
 H 0 2.069513 0.108833 -1.978517
 H 0 -0.180288 -1.330454 0.533758
 H 0 -0.916440 -3.166633 -0.937723
 H 0 -1.876976 -2.039808 -1.902247
 H 0 -2.287845 -2.688907 1.081578
 H 0 -3.343252 -3.198277 -0.236496
 H 0 -4.219530 -1.214151 1.062245
 H 0 3.049133 0.510029 0.248631
 H 0 1.761656 -0.381977 1.031806
 H 0 3.703881 -1.539952 -1.040803
 H 0 2.391113 -2.438367 -0.297553
 H 0 4.559092 -2.922673 0.864515
 H 0 3.447206 -2.110838 1.978517
 H 0 4.768389 -1.201861 1.229070
 H 0 -1.727639 2.609953 0.745325
 H 0 1.133409 3.198277 -0.325577
 H 0 -4.768389 -0.133275 -0.870259

 Free Energy (PCM/B3LYP/6-31G*) = -845.147853
 Number of imaginary frequencies = 0

Isomer 29

B3LYP/6-31G* geometry

O 0	0.143530	1.845877	1.980472
C 0	-0.715712	1.893787	0.839109
C 0	0.737762	0.665101	-0.911064
C 0	-0.690771	-0.630578	0.546942
O 0	-0.185296	-0.437234	-0.773401
C 0	-1.553567	0.604268	0.929168
C 0	0.094342	2.005653	-0.479019
C 0	-2.806309	0.590159	0.083932
C 0	-3.665155	-0.661173	0.171158
C 0	-2.777530	-1.848467	-0.273883
C 0	-1.496875	-1.930778	0.565704
O 0	-0.690142	2.573499	-1.523517
C 0	2.096008	0.390417	-0.244964
C 0	2.752889	-0.918785	-0.699151
C 0	4.130984	-1.138529	-0.067025
O 0	-4.821726	-0.537031	-0.625150
O 0	-3.124012	1.470902	-0.712283
H 0	0.665912	2.664268	1.993553
H 0	-1.377164	2.769469	0.894546
H 0	0.891186	0.733207	-1.993553
H 0	0.133209	-0.703301	1.266252
H 0	-1.867642	0.485286	1.975192
H 0	0.907183	2.722183	-0.302780
H 0	-3.961316	-0.813288	1.219841
H 0	-3.363275	-2.769469	-0.187716
H 0	-2.532279	-1.711655	-1.333220
H 0	-1.745983	-2.162559	1.609286
H 0	-0.857582	-2.742402	0.201764
H 0	-1.606474	2.251581	-1.419619
H 0	2.753878	1.233224	-0.500608
H 0	1.999879	0.407727	0.847156
H 0	2.846672	-0.913922	-1.794552
H 0	2.095499	-1.761721	-0.453672
H 0	4.578539	-2.080008	-0.405707
H 0	4.062938	-1.175873	1.027368

H 0 4.821726 -0.327120 -0.328052
H 0 -4.697309 0.285318 -1.138592
Free Energy (PCM/B3LYP/6-31G*) = -845.149562
Number of imaginary frequencies = 0

Isomer 30

B3LYP/6-31G* geometry
O 0 0.348078 1.510550 1.771323
C 0 -0.580912 1.450892 0.691149
C 0 0.798201 -0.037757 -0.905951
C 0 -0.744667 -1.082339 0.646981
O 0 -0.201023 -1.049967 -0.676380
C 0 -1.498061 0.244150 0.924107
C 0 0.162045 1.347258 -0.654704
C 0 -2.771369 0.301655 0.099309
C 0 -3.695744 -0.908406 0.184035
C 0 -2.895221 -2.177957 -0.163606
C 0 -1.658667 -2.305671 0.734820
O 0 1.201522 2.333397 -0.698973
C 0 2.117592 -0.311259 -0.169039
C 0 2.731927 -1.671068 -0.525999
C 0 4.071618 -1.915056 0.175665
O 0 -4.808008 -0.738568 -0.667185
O 0 -3.076502 1.238394 -0.627099
H 0 1.078103 2.064315 1.436942
H 0 -1.189425 2.367628 0.673315
H 0 0.998951 -0.114778 -1.980927
H 0 0.061245 -1.175653 1.384034
H 0 -1.803527 0.244247 1.980927
H 0 -0.566544 1.525858 -1.453878
H 0 -4.035214 -0.986318 1.231107
H 0 -3.550088 -3.048892 -0.053943
H 0 -2.596584 -2.120942 -1.216331
H 0 -1.963740 -2.433514 1.781594
H 0 -1.079684 -3.193779 0.459668
H 0 0.786752 3.193779 -0.876114
H 0 2.813270 0.490071 -0.445505
H 0 1.978421 -0.231673 0.914469
H 0 2.871687 -1.730803 -1.615034
H 0 2.027328 -2.470355 -0.265051
H 0 4.490046 -2.891807 -0.093249
H 0 3.957339 -1.889745 1.266509
H 0 4.808008 -1.149045 -0.097438
H 0 -4.685436 0.144570 -1.070461

Free Energy (PCM/B3LYP/6-31G*) = -845.150845
Number of imaginary frequencies = 0

H 0 -0.732604 -2.953386 0.205942
H 0 -1.636810 1.890791 -1.533051
H 0 2.646934 1.232089 -0.379841
H 0 1.919263 0.337671 0.939259
H 0 2.867453 -0.889197 -1.708515
H 0 2.150189 -1.794919 -0.387100
H 0 4.644686 -1.977167 -0.314924
H 0 4.067522 -1.119842 1.123193
H 0 4.792186 -0.214847 -0.214804
H 0 -4.648229 -0.232825 -1.375356
Free Energy (PCM/B3LYP/6-31G*) = -845.151440
Number of imaginary frequencies = 0

Isomer 32

B3LYP/6-31G* geometry
O 0 -1.402948 2.630259 0.922231
C 0 -0.713858 1.395121 0.729854
C 0 0.734578 0.070630 -0.896129
C 0 -0.764492 -1.126273 0.597760
O 0 -0.183131 -1.024322 -0.704467
C 0 -1.599639 0.147525 0.912691
C 0 -0.028530 1.384369 -0.643890
C 0 -2.876760 0.170747 0.090146
C 0 -3.706915 -1.105930 0.052002
C 0 -2.818154 -2.302781 -0.327617
C 0 -1.611400 -2.399794 0.613029
O 0 0.858142 2.489820 -0.754837
C 0 2.044515 -0.082127 -0.111039
C 0 2.802593 -1.370867 -0.454056
C 0 4.136463 -1.488949 0.290226
O 0 -4.796620 -0.966807 -0.831891
O 0 -3.278344 1.160238 -0.517069
H 0 -2.171418 2.594981 0.320240
H 0 0.061465 1.379473 1.503573
H 0 0.977790 0.019226 -1.963606
H 0 0.024745 -1.208344 1.356895
H 0 -1.919207 0.085848 1.963606
H 0 -0.813817 1.454992 -1.412307
H 0 -4.072372 -1.262056 1.083342
H 0 -3.421071 -3.215752 -0.284782
H 0 -2.484522 -2.175495 -1.363118
H 0 -1.945594 -2.581986 1.642511
H 0 -0.974502 -3.243601 0.327723
H 0 0.364141 3.243601 -0.384440
H 0 2.664260 0.790294 -0.348581
H 0 1.866811 -0.037991 0.971478
H 0 2.982726 -1.403687 -1.538005
H 0 2.172637 -2.238862 -0.223331
H 0 4.658377 -2.415973 0.026448
H 0 3.985638 -1.489009 1.376959
H 0 4.801077 -0.650343 0.048383
H 0 -4.801077 -0.025693 -1.095882
Free Energy (PCM/B3LYP/6-31G*) = -845.152982
Number of imaginary frequencies = 0

Isomer 31

B3LYP/6-31G* geometry
O 0 -1.684670 2.799837 1.142738
C 0 -0.875716 1.660186 0.898502
C 0 0.671985 0.562638 -0.844246
C 0 -0.723822 -0.833778 0.555150
O 0 -0.186979 -0.593362 -0.745849
C 0 -1.682647 0.340173 0.905287
C 0 -0.040562 1.858602 -0.388005
C 0 -2.866982 0.238508 -0.031213
C 0 -3.668664 -1.052097 0.053077
C 0 -2.692697 -2.193429 -0.333531
C 0 -1.437105 -2.186980 0.546619
O 0 -0.840363 2.448063 -1.415697
C 0 2.029955 0.351857 -0.153627
C 0 2.762804 -0.914365 -0.614637
C 0 4.144138 -1.065352 0.030182
O 0 -4.792186 -1.007561 -0.796943
O 0 -3.151718 1.044972 -0.913753
H 0 -1.903041 3.146461 0.257462
H 0 -0.178196 1.583303 1.741707
H 0 0.846777 0.662114 -1.920922
H 0 0.080640 -0.857446 1.302649
H 0 -2.067134 0.175641 1.920922
H 0 0.725340 2.612427 -0.178367
H 0 -4.008253 -1.204185 1.087215
H 0 -3.224878 -3.146461 -0.249096
H 0 -2.421273 -2.060316 -1.387043
H 0 -1.701839 -2.433512 1.582687