

## Supplementary Information

### Unusual Complexes of Trapped Methanol with Azacryptands

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**Synthesis.** Compound **L1**<sup>1</sup> and **L2**<sup>2</sup> were prepared as reported earlier. Sulfate salts of these compounds were obtained by dissolving the respective ligand (50 mg) in MeOH (5 mL) and adding a few drops of H<sub>2</sub>SO<sub>4</sub>. The white solid was immediately formed that was filtered, washed by Et<sub>2</sub>O and dried under vacuum.

**X-ray crystallography.** The sulfate salts were redissolved in the mixture of CH<sub>3</sub>OH (5 mL) and H<sub>2</sub>O (1 mL), and the solutions were kept in a desiccator under the saturated vapour pressure of methanol at room temperature. X-ray quality crystals were grown in two days for the salt of **L1** (**1**) while the crystals of **L2** (**2**) were grown after a week. Both samples gave colourless prism-shaped crystals that were selected for structural analysis.

**Data collection:** Intensity data were collected using a diffractometer with a Bruker APEX ccd area detector [3] and graphite-monochromated CuK<sub>α</sub> radiation ( $\lambda = 1.54178 \text{ \AA}$ ). Both samples were colloid to 100(2) K. For **1**, cell parameters were determined from a non-linear least squares fit of 1199 peaks in the range  $34.5 < \theta < 68.8^\circ$ . A total of 35685 data were measured and corrected for absorption by the semi-empirical method (4) giving minimum and maximum transmission factors of 0.417 and 0.508. The data were merged to form a set of 9417 independent data with R(int) = 0.0794 and a coverage of 97.4 %. While for **2**, cell parameters were determined from a non-linear least squares fit of 2035 peaks in the range  $2.98 < \theta < 54.13^\circ$ . A total of 11543 data were measured and corrected for absorption by the semi-empirical method (2) giving minimum and maximum transmission factors of 0.484 and 0.778. The data were merged to form a set of 1749 independent data with R(int) = 0.0719 and a coverage of 99.7 %.

Both structures were solved by direct methods and refined by full-matrix least-squares methods on  $F^2$  [5] Hydrogen atom positions were initially determined by geometry and refined by a riding model.

## References

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## Full list of the authors in Ref 12.

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## DFT calculations

Cartesian coordinates for M052x/6-31+G(d) geometries of the reagents and formed complexes

### Water (fully optimized geometry)

8	0	0.000000	0.000000	0.115719
1	0	0.000000	0.770058	-0.462875
1	0	0.000000	-0.770058	-0.462875

### Methanol (fully optimized geometry)

6	0	0.666933	-0.020964	0.000000
8	0	-0.746119	0.122569	0.000000
1	0	1.020963	-0.545176	0.892363
1	0	1.020963	-0.545177	-0.892362
1	0	1.079416	0.985301	0.000000
1	0	-1.153984	-0.749718	0.000000

**L1** (geometry is modeled from the crystallographic coordinates with corrected lengths of bonds that involve hydrogen atoms)

6	0	0.266419	-2.953347	-2.756563
6	0	0.050490	3.043890	-2.483261
6	0	-0.517524	0.852028	3.847504
7	0	-4.708878	-0.027562	-0.333764
1	0	-3.688455	-0.020319	-0.223036
6	0	-5.174256	-1.407717	-0.511916
1	0	-6.234537	-1.388519	-0.778341
1	0	-5.084399	-1.931648	0.443525
6	0	-4.421412	-2.202887	-1.573185
1	0	-4.876230	-3.192470	-1.674527
1	0	-4.509338	-1.693480	-2.536263
7	0	-2.972021	-2.359102	-1.229867
1	0	-2.874105	-2.507532	-0.217903
1	0	-2.467978	-1.498109	-1.472176
6	0	-2.359820	-3.520145	-1.966042
1	0	-2.859413	-4.441464	-1.656451
1	0	-2.530211	-3.391862	-3.038541
6	0	-0.884950	-3.654706	-1.717312
6	0	-0.266553	-4.399740	-0.739657
1	0	-0.805418	-4.926115	0.045135
6	0	1.138901	-4.410723	-0.859405
1	0	1.798676	-4.961962	-0.193263

6 0 1.572330 -3.659471 -1.892834  
6 0 2.936175 -3.504785 -2.511966  
1 0 3.231376 -4.468387 -2.935255  
1 0 2.859127 -2.793671 -3.338812  
7 0 4.021714 -3.043436 -1.597457  
1 0 4.845298 -2.825438 -2.170818  
1 0 4.276731 -3.830505 -0.987891  
6 0 3.741796 -1.852918 -0.722039  
1 0 3.566612 -2.182976 0.305356  
1 0 2.841596 -1.341251 -1.072115  
6 0 4.928294 -0.894632 -0.757808  
1 0 5.844032 -1.439714 -0.516379  
1 0 5.034190 -0.485428 -1.766254  
7 0 4.745082 0.198938 0.194317  
1 0 3.739363 0.396309 0.261353  
6 0 5.419762 1.427389 -0.242809  
1 0 6.426170 1.175954 -0.585811  
1 0 5.517051 2.101518 0.611181  
6 0 4.683678 2.150469 -1.360883  
1 0 5.241298 3.048247 -1.642197  
1 0 4.624840 1.500548 -2.237445  
7 0 3.303559 2.539123 -0.936091  
1 0 3.332328 2.920015 0.017789  
1 0 2.699697 1.708639 -0.930774  
6 0 2.732521 3.567797 -1.869389  
1 0 2.836899 3.215673 -2.898803  
1 0 3.303769 4.495330 -1.773420  
6 0 1.285506 3.848252 -1.588330  
6 0 0.747783 4.719904 -0.686634  
1 0 1.342616 5.341079 -0.020877  
6 0 -0.670002 4.726271 -0.713650  
1 0 -1.276768 5.346529 -0.056560  
6 0 -1.197529 3.886542 -1.636031  
6 0 -2.639944 3.647296 -1.935311  
1 0 -2.792276 3.681280 -3.017175  
1 0 -3.235392 4.448150 -1.487899  
7 0 -3.125302 2.319355 -1.411435  
1 0 -2.662796 1.559027 -1.924223  
1 0 -2.872768 2.231560 -0.419405  
6 0 -4.612350 2.194580 -1.562975  
1 0 -4.912789 2.642428 -2.513627  
1 0 -5.101525 2.752500 -0.761001  
6 0 -5.083172 0.754454 -1.525121  
1 0 -6.172527 0.749172 -1.608158  
1 0 -4.686955 0.243223 -2.406264  
6 0 -5.338304 0.568370 0.860295

1	0	-6.423250	0.497580	0.751194
1	0	-5.081573	1.630769	0.893019
6	0	-4.944652	-0.062947	2.180318
1	0	-5.327370	0.552517	2.999276
1	0	-5.412147	-1.047928	2.257421
7	0	-3.463027	-0.210989	2.331470
1	0	-3.002232	0.617379	1.937045
1	0	-3.151886	-1.028826	1.793553
6	0	-3.031077	-0.375546	3.769679
1	0	-3.341761	0.498479	4.348165
1	0	-3.511315	-1.258013	4.199491
6	0	-1.546577	-0.524762	3.842733
6	0	-0.827818	-1.680168	3.806593
1	0	-1.278562	-2.669403	3.774630
6	0	0.569262	-1.455715	3.818877
1	0	1.308706	-2.253776	3.810330
6	0	0.888495	-0.129320	3.842340
6	0	2.260916	0.477115	3.837910
1	0	2.179177	1.566802	3.792758
1	0	2.781085	0.214752	4.763041
7	0	3.047368	-0.015324	2.663747
1	0	3.084220	-1.040548	2.693064
1	0	2.564687	0.257399	1.799496
6	0	4.438074	0.523685	2.635434
1	0	4.921728	0.350913	3.599360
1	0	4.414375	1.600876	2.451937
6	0	5.223388	-0.166814	1.535194
1	0	6.278729	0.100685	1.625932
1	0	5.139172	-1.248909	1.661846

**L2** (geometry is modeled from the crystallographic coordinates with corrected lengths of bonds that involve hydrogen atoms)

7	0	-4.930670	0.491382	-0.255682
6	0	-5.515376	0.923543	1.038886
1	0	-6.603641	0.966891	0.946967
1	0	-5.156207	1.927634	1.278569
6	0	-5.137974	-0.040022	2.184653
1	0	-5.542802	0.348670	3.122566
1	0	-5.599250	-1.013178	1.997994
7	0	-3.685190	-0.217005	2.326077
1	0	-3.227794	0.667032	2.073101
1	0	-3.366796	-0.938924	1.668668
6	0	-3.264659	-0.584587	3.687258
1	0	-3.780544	-1.496156	3.999594
1	0	-3.534980	0.213683	4.383204
6	0	-1.760260	-0.812222	3.730951

6	0	-0.862882	0.156798	4.225614
1	0	-1.230526	1.096831	4.631717
6	0	0.489538	-0.109380	4.182513
1	0	1.172281	0.634309	4.588141
6	0	-1.248790	-1.984386	3.219509
1	0	-1.927611	-2.747201	2.843929
6	0	0.094033	-2.203502	3.173638
1	0	0.460368	-3.136817	2.751187
6	0	1.025168	-1.270276	3.654641
6	0	2.487456	-1.524884	3.583767
1	0	2.658314	-2.585430	3.382030
1	0	2.938740	-1.293148	4.551905
7	0	3.153837	-0.712655	2.529316
1	0	2.699405	-0.896745	1.612145
1	0	3.045083	0.285585	2.744765
6	0	4.583394	-1.045613	2.443420
1	0	4.695725	-2.094062	2.155692
1	0	5.047942	-0.912339	3.423768
6	0	5.295154	-0.162887	1.422776
1	0	5.156135	0.886093	1.696572
1	0	6.366515	-0.378082	1.445693
7	0	4.790496	-0.376606	0.068442
6	0	5.400552	-1.591240	-0.509646
1	0	5.427077	-2.365639	0.261231
1	0	6.434464	-1.363286	-0.781146
6	0	4.709423	-2.141356	-1.705296
1	0	5.200515	-3.069975	-2.007198
1	0	4.803616	-1.431699	-2.531228
7	0	3.260668	-2.414230	-1.458881
1	0	3.153993	-2.759275	-0.497480
1	0	2.740916	-1.516039	-1.527521
6	0	2.640037	-3.377758	-2.367570
1	0	2.981081	-4.384060	-2.111261
1	0	2.965684	-3.166579	-3.389336
6	0	1.171840	-3.338396	-2.315355
6	0	0.438076	-2.972766	-1.175296
1	0	0.967982	-2.775948	-0.245669
6	0	-0.948767	-2.852964	-1.201362
1	0	-1.486440	-2.565684	-0.300184
6	0	0.449706	-3.572750	-3.452510
1	0	0.996444	-3.805638	-4.363875
6	0	-0.952816	-3.530959	-3.519589
1	0	-1.485317	-3.819073	-4.423567
6	0	-1.638509	-3.099639	-2.368678
6	0	-3.136586	-2.929676	-2.474577
1	0	-3.413553	-2.766934	-3.519303

1 0 -3.633404 -3.839620 -2.128423  
7 0 -3.590724 -1.765262 -1.649482  
1 0 -3.005060 -0.947867 -1.858268  
1 0 -3.462419 -2.003197 -0.658698  
6 0 -4.993761 -1.407018 -1.906711  
1 0 -5.550155 -2.319021 -2.137635  
1 0 -5.041179 -0.754537 -2.782307  
6 0 -5.680943 -0.704039 -0.717988  
1 0 -6.686904 -0.400314 -1.018728  
1 0 -5.776308 -1.410334 0.110686  
6 0 -5.061387 1.482121 -1.352808  
1 0 -6.120861 1.690486 -1.522363  
1 0 -4.653520 1.053340 -2.271742  
6 0 -4.331894 2.803441 -1.049976  
1 0 -4.504944 3.497606 -1.876316  
1 0 -4.723985 3.203628 -0.234921  
7 0 -2.881902 2.652384 -0.853099  
1 0 -2.548014 1.830711 -1.370884  
1 0 -2.693427 2.507145 0.145956  
6 0 -2.155719 3.897635 -1.314818  
1 0 -2.374824 4.048779 -2.374911  
1 0 -2.560953 4.754634 -0.770771  
6 0 -0.682499 3.886470 -1.140884  
6 0 0.174380 3.574120 -2.207007  
1 0 -0.272869 3.259221 -3.147513  
6 0 1.551020 3.640802 -2.133070  
1 0 2.152029 3.366094 -2.997401  
6 0 -0.065037 4.266359 0.059528  
1 0 -0.670534 4.521411 0.926745  
6 0 1.334880 4.316513 0.145745  
1 0 1.788594 4.562738 1.103483  
6 0 2.178704 4.060722 -0.948015  
6 0 3.631400 4.325910 -0.819329  
1 0 3.855498 4.600972 0.214484  
1 0 3.899031 5.171738 -1.457763  
7 0 4.454205 3.139135 -1.201573  
1 0 4.298864 2.941437 -2.197321  
1 0 5.445949 3.377885 -1.082531  
6 0 4.166482 1.906511 -0.423936  
1 0 4.251126 2.131303 0.642344  
1 0 3.137473 1.593532 -0.618444  
6 0 5.084510 0.785000 -0.754365  
1 0 4.972815 0.521832 -1.809313  
1 0 6.118748 1.097817 -0.589601

**L1 + CH<sub>3</sub>OH** (geometry is modeled from the crystallographic coordinates with corrected lengths of bonds that involve hydrogen atoms)

6	0	0.196590	-3.020830	-2.737425
6	0	0.025071	2.981071	-2.547862
6	0	-0.534847	0.882653	3.815204
7	0	-4.748226	-0.025099	-0.337813
1	0	-3.727366	-0.023732	-0.230951
6	0	-5.224242	-1.404196	-0.494788
1	0	-6.285357	-1.381024	-0.757555
1	0	-5.134567	-1.915280	0.467604
6	0	-4.481185	-2.219675	-1.547509
1	0	-4.943527	-3.207246	-1.633223
1	0	-4.569064	-1.723236	-2.517338
7	0	-3.031674	-2.381600	-1.207355
1	0	-2.931011	-2.516493	-0.193768
1	0	-2.522338	-1.527795	-1.463624
6	0	-2.430673	-3.557310	-1.929345
1	0	-2.935741	-4.470521	-1.604967
1	0	-2.604183	-3.442885	-3.002910
6	0	-0.955884	-3.699099	-1.684168
6	0	-0.339201	-4.434795	-0.698393
1	0	-0.878889	-4.946142	0.095715
6	0	1.065674	-4.457698	-0.823142
1	0	1.723958	-5.004306	-0.151729
6	0	1.500616	-3.724231	-1.868641
6	0	2.863194	-3.588206	-2.494902
1	0	3.149817	-4.559790	-2.905654
1	0	2.788166	-2.888248	-3.331397
7	0	3.955489	-3.121961	-1.590982
1	0	4.778456	-2.918053	-2.170383
1	0	4.207110	-3.902216	-0.971329
6	0	3.687499	-1.917242	-0.731404
1	0	3.513817	-2.231534	0.301178
1	0	2.789706	-1.404005	-1.085341
6	0	4.880752	-0.968222	-0.785034
1	0	5.793431	-1.516511	-0.539318
1	0	4.985792	-0.574023	-1.799529
7	0	4.709053	0.139936	0.152255
1	0	3.692484	0.348794	0.220998
6	0	5.390942	1.357171	-0.304616
1	0	6.394202	1.093613	-0.647739
1	0	5.496331	2.042517	0.539427
6	0	4.655886	2.069798	-1.430053
1	0	5.218916	2.959445	-1.726037

1	0	4.589037	1.408059	-2.297148
7	0	3.280229	2.474430	-1.005707
1	0	3.315357	2.868480	-0.057400
1	0	2.662850	1.638330	-0.986238
6	0	2.713122	3.494009	-1.951301
1	0	2.811059	3.126692	-2.976028
1	0	3.291421	4.418614	-1.870511
6	0	1.269245	3.788922	-1.668901
6	0	0.741252	4.677062	-0.777606
1	0	1.343073	5.303189	-0.122859
6	0	-0.676542	4.693376	-0.799495
1	0	-1.276320	5.327217	-0.148983
6	0	-1.213611	3.844623	-1.708006
6	0	-2.658839	3.611704	-1.998579
1	0	-2.815009	3.631580	-3.080246
1	0	-3.246785	4.423088	-1.560309
7	0	-3.151804	2.294834	-1.454263
1	0	-2.696750	1.524020	-1.957983
1	0	-2.896164	2.219161	-0.462029
6	0	-4.640277	2.178774	-1.598560
1	0	-4.941061	2.615385	-2.554316
1	0	-5.122370	2.751466	-0.802733
6	0	-5.121356	0.742791	-1.538686
1	0	-6.211026	0.744277	-1.617634
1	0	-4.732179	0.216346	-2.413989
6	0	-5.368809	0.592136	0.850037
1	0	-6.454643	0.527723	0.745935
1	0	-5.104280	1.652992	0.866843
6	0	-4.974746	-0.023405	2.177368
1	0	-5.349905	0.606287	2.988975
1	0	-5.449057	-1.003773	2.270061
7	0	-3.493670	-0.180095	2.325142
1	0	-3.028391	0.639266	1.917392
1	0	-3.190486	-1.007662	1.797661
6	0	-3.057488	-0.327552	3.763929
1	0	-3.359654	0.556762	4.331180
1	0	-3.542467	-1.200366	4.207895
6	0	-1.573841	-0.486535	3.833618
6	0	-0.863597	-1.647540	3.811119
1	0	-1.321601	-2.633817	3.794755
6	0	0.535105	-1.433119	3.815101
1	0	1.268722	-2.236586	3.815081
6	0	0.864008	-0.108885	3.818698
6	0	2.240752	0.487414	3.800677
1	0	2.166726	1.576925	3.740476
1	0	2.762504	0.234305	4.727494

7	0	3.019179	-0.027204	2.630685
1	0	3.048727	-1.052156	2.674309
1	0	2.528005	0.240339	1.751938
6	0	4.413630	0.501209	2.589665
1	0	4.899662	0.338491	3.554145
1	0	4.397029	1.575857	2.391098
6	0	5.189766	-0.210397	1.496384
1	0	6.247349	0.050657	1.579462
1	0	5.098206	-1.289962	1.638579
8	0	1.322402	0.941366	0.574954
1	0	1.021200	1.748405	1.105549
6	0	0.243035	0.068573	0.220460
1	0	0.632188	-0.781181	-0.345826
1	0	-0.479950	0.614636	-0.390890
1	0	-0.248564	-0.291010	1.128568

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**L2 + CH<sub>3</sub>OH** (geometry is modeled from the crystallographic coordinates with corrected lengths of bonds that involve hydrogen atoms)

7	0	-4.972989	0.478047	-0.271843
6	0	-5.556972	0.916490	1.021198
1	0	-6.645661	0.958461	0.929869
1	0	-5.198412	1.922553	1.255446
6	0	-5.177910	-0.040576	2.171537
1	0	-5.581883	0.352218	3.107716
1	0	-5.638470	-1.015409	1.989736
7	0	-3.724080	-0.215669	2.312132
1	0	-3.268366	0.667286	2.054329
1	0	-3.406574	-0.941106	1.658712
6	0	-3.302588	-0.575593	3.675373
1	0	-3.817877	-1.486595	3.992727
1	0	-3.572911	0.225727	4.366864
6	0	-1.798027	-0.802011	3.718469
6	0	-0.901001	0.169615	4.207584
1	0	-1.269008	1.111669	4.608555
6	0	0.451429	-0.095815	4.164192
1	0	1.134077	0.650767	4.566184
6	0	-1.286557	-1.976593	3.213069
1	0	-1.964578	-2.742367	2.841496
6	0	0.057240	-2.195068	3.167084
1	0	0.423366	-3.129726	2.748973
6	0	0.987860	-1.258372	3.641871
6	0	2.450539	-1.512213	3.570841
1	0	2.621971	-2.573996	3.375495
1	0	2.902071	-1.275357	4.537422
7	0	3.115114	-0.705314	2.512094

1	0	2.660180	-0.894601	1.596754
1	0	3.005912	0.294104	2.722238
6	0	4.544794	-1.037154	2.426194
1	0	4.657715	-2.087391	2.144233
1	0	5.010410	-0.898815	3.406126
6	0	5.254663	-0.158958	1.400479
1	0	5.115655	0.891074	1.669579
1	0	6.326645	-0.374145	1.423558
7	0	4.749260	-0.380691	0.048418
6	0	5.360003	-1.597216	-0.524254
1	0	5.387121	-2.368034	0.250088
1	0	6.392952	-1.370235	-0.798509
6	0	4.668497	-2.154989	-1.716646
1	0	5.159012	-3.084308	-2.013778
1	0	4.760930	-1.448799	-2.546004
7	0	3.219620	-2.426707	-1.466918
1	0	3.113881	-2.767704	-0.504402
1	0	2.699146	-1.529416	-1.539963
6	0	2.599250	-3.395728	-2.370594
1	0	2.940902	-4.400572	-2.109856
1	0	2.923531	-3.189538	-3.394272
6	0	1.130631	-3.357877	-2.317441
6	0	0.397892	-2.986761	-1.177856
1	0	0.928327	-2.784813	-0.249937
6	0	-0.988972	-2.867519	-1.203808
1	0	-1.526436	-2.576906	-0.303607
6	0	0.408098	-3.597958	-3.452409
1	0	0.954127	-3.835765	-4.363202
6	0	-0.995343	-3.558292	-3.518584
1	0	-1.527631	-3.850554	-4.420162
6	0	-1.680040	-3.121201	-2.369337
6	0	-3.177959	-2.953284	-2.474583
1	0	-3.456037	-2.795584	-3.519581
1	0	-3.674225	-3.861274	-2.123244
7	0	-3.632657	-1.784798	-1.655511
1	0	-3.047451	-0.967855	-1.869199
1	0	-3.503260	-2.017561	-0.663695
6	0	-5.035813	-1.428822	-1.912649
1	0	-5.591712	-2.342991	-2.138555
1	0	-5.084848	-0.781356	-2.791730
6	0	-5.722689	-0.720413	-0.727758
1	0	-6.729528	-0.419265	-1.028489
1	0	-5.816904	-1.422268	0.105068
6	0	-5.105255	1.463395	-1.374287
1	0	-6.165109	1.669149	-1.543731
1	0	-4.698224	1.030335	-2.290838

6	0	-4.377237	2.786712	-1.078456
1	0	-4.551377	3.476222	-1.908856
1	0	-4.768416	3.190831	-0.265520
7	0	-2.926065	2.637389	-0.882337
1	0	-2.591914	1.813599	-1.396123
1	0	-2.736744	2.497683	0.117622
6	0	-2.201723	3.881234	-1.351356
1	0	-2.422117	4.026190	-2.411919
1	0	-2.607522	4.740984	-0.810918
6	0	-0.728184	3.872084	-1.178884
6	0	0.127789	3.555127	-2.243276
1	0	-0.320115	3.234349	-3.182059
6	0	1.505079	3.622782	-2.171324
1	0	2.105493	3.344754	-3.034729
6	0	-0.110568	4.258302	0.019932
1	0	-0.715034	4.517376	0.885637
6	0	1.289789	4.310429	0.104122
1	0	1.743810	4.561658	1.060063
6	0	2.132349	4.049490	-0.988768
6	0	3.585256	4.316684	-0.863042
1	0	3.810544	4.596904	0.169260
1	0	3.852289	5.159579	-1.506006
7	0	4.408891	3.128202	-1.239970
1	0	4.252464	2.925617	-2.234191
1	0	5.400746	3.368989	-1.122874
6	0	4.122723	1.899369	-0.455261
1	0	4.208959	2.129355	0.609368
1	0	3.094118	1.585103	-0.647878
6	0	5.040891	0.777290	-0.781003
1	0	4.929660	0.508310	-1.834511
1	0	6.075950	1.091199	-0.618656
8	0	1.440510	-0.191772	0.202357
1	0	1.571870	-0.191321	-0.689390
6	0	0.188039	0.433806	0.535132
1	0	0.043245	0.403310	1.618198
1	0	-0.630498	-0.095299	0.041668
1	0	0.202165	1.474159	0.199087

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**L1 + H<sub>2</sub>O** (partially optimized geometry – geometry of a cryptand is frozen and the position of the encapsulated small molecule inside it is optimized)

16	0	0.262623	-2.929330	-2.771471
16	0	0.043700	3.067076	-2.482763
16	0	-0.521838	0.858719	3.842488
7	0	-4.713642	-0.012294	-0.340124

1	0	-3.693199	-0.004815	-0.229597
6	0	-5.178356	-1.392224	-0.521712
1	0	-6.238704	-1.372884	-0.787859
1	0	-5.088028	-1.918556	0.432365
6	0	-4.425335	-2.184291	-1.585174
1	0	-4.879672	-3.173842	-1.688953
1	0	-4.513728	-1.672463	-2.546925
7	0	-2.975792	-2.340646	-1.242566
1	0	-2.877583	-2.491618	-0.231007
1	0	-2.472239	-1.478779	-1.482778
6	0	-2.363158	-3.499488	-1.981844
1	0	-2.862216	-4.421851	-1.674507
1	0	-2.533845	-3.368545	-3.053974
6	0	-0.888166	-3.633934	-1.733775
6	0	-0.269181	-4.381154	-0.758163
1	0	-0.807610	-4.909812	0.025394
6	0	1.136254	-4.391114	-0.878240
1	0	1.796451	-4.943723	-0.213651
6	0	1.569078	-3.636998	-1.909833
6	0	2.932711	-3.480033	-2.528859
1	0	3.228311	-4.442397	-2.954677
1	0	2.855124	-2.766842	-3.353864
7	0	4.018211	-3.020474	-1.613402
1	0	4.841562	-2.800589	-2.186379
1	0	4.273760	-3.808971	-1.005909
6	0	3.737876	-1.832345	-0.734879
1	0	3.563081	-2.165123	0.291706
1	0	2.837340	-1.320241	-1.083450
6	0	4.923878	-0.873366	-0.768447
1	0	5.839946	-1.418598	-0.528610
1	0	5.029350	-0.461527	-1.775864
7	0	4.740315	0.217668	0.186516
1	0	3.734509	0.414355	0.254271
6	0	5.414276	1.447579	-0.247606
1	0	6.420737	1.197535	-0.591466
1	0	5.511405	2.119567	0.608086
6	0	4.677583	2.173145	-1.363668
1	0	5.234686	3.071924	-1.642799
1	0	4.618887	1.525441	-2.241879
7	0	3.297358	2.560007	-0.937587
1	0	3.326138	2.938468	0.017260
1	0	2.693920	1.729204	-0.934268
6	0	2.725596	3.590777	-1.868125
1	0	2.829932	3.241343	-2.898460
1	0	3.296394	4.518351	-1.769902
6	0	1.278499	3.869773	-1.586039

6	0	0.740526	4.738839	-0.681999
1	0	1.335187	5.358610	-0.014780
6	0	-0.677267	4.744553	-0.708696
1	0	-1.284208	5.362817	-0.049889
6	0	-1.204566	3.906921	-1.633112
6	0	-2.646922	3.667707	-1.932696
1	0	-2.799505	3.704384	-3.014436
1	0	-3.242682	4.467109	-1.483107
7	0	-3.131493	2.338182	-1.412119
1	0	-2.668710	1.579405	-1.926951
1	0	-2.878701	2.247975	-0.420371
6	0	-4.618508	2.213037	-1.563660
1	0	-4.919381	2.663166	-2.513097
1	0	-5.107796	2.768652	-0.760156
6	0	-5.088590	0.772579	-1.529394
1	0	-6.177960	0.766956	-1.612212
1	0	-4.692303	0.263809	-2.411928
6	0	-5.343115	0.580257	0.855591
1	0	-6.428049	0.509195	0.746542
1	0	-5.086917	1.642700	0.890982
6	0	-4.948859	-0.054238	2.173910
1	0	-5.331713	0.558931	2.994523
1	0	-5.415836	-1.039651	2.248589
7	0	-3.467125	-0.201912	2.324365
1	0	-3.006837	0.627698	1.931964
1	0	-3.155684	-1.018211	1.784288
6	0	-3.034783	-0.369932	3.762056
1	0	-3.345786	0.502449	4.342845
1	0	-3.514479	-1.253742	4.189708
6	0	-1.550192	-0.518578	3.834410
6	0	-0.830852	-1.673522	3.795158
1	0	-1.281100	-2.662901	3.760757
6	0	0.566116	-1.448389	3.807717
1	0	1.305964	-2.246049	3.796968
6	0	0.884679	-0.121896	3.834510
6	0	2.256790	0.485247	3.831340
1	0	2.174487	1.575004	3.788996
1	0	2.777292	0.220780	4.755685
7	0	3.043241	-0.003782	2.655751
1	0	3.080620	-1.029059	2.682435
1	0	2.560235	0.270907	1.792305
6	0	4.433667	0.536007	2.628522
1	0	4.917615	0.361012	3.591899
1	0	4.409380	1.613652	2.447790
6	0	5.219095	-0.151274	1.526349
1	0	6.274319	0.116530	1.617547

1	0	5.135456	-1.233731	1.650247
1	0	0.002878	-1.396169	-0.088652
8	0	0.184135	-0.483855	0.178593
1	0	0.124514	-0.448970	1.140706

**L1 + CH<sub>3</sub>OH** (partially optimized geometry – geometry of a cryptand is frozen and the position of the encapsulated small molecule inside it is optimized)

16	0	0.249389	-2.814165	-2.870140
16	0	-0.001993	3.171586	-2.427695
16	0	-0.538268	0.799221	3.840460
7	0	-4.736413	0.011840	-0.352359
1	0	-3.715733	0.022219	-0.244275
6	0	-5.193956	-1.365586	-0.567975
1	0	-6.255108	-1.345402	-0.830840
1	0	-5.098147	-1.915604	0.372103
6	0	-4.439420	-2.125988	-1.653252
1	0	-4.888541	-3.115099	-1.781133
1	0	-4.533234	-1.590263	-2.601376
7	0	-2.988115	-2.282911	-1.318445
1	0	-2.886351	-2.459121	-0.311329
1	0	-2.489996	-1.412377	-1.537829
6	0	-2.371058	-3.419033	-2.088661
1	0	-2.864166	-4.351733	-1.803730
1	0	-2.545350	-3.261704	-3.156655
6	0	-0.894681	-3.551495	-1.847865
6	0	-0.268941	-4.319911	-0.893252
1	0	-0.802322	-4.871426	-0.122096
6	0	1.136198	-4.318915	-1.017123
1	0	1.801234	-4.884608	-0.368561
6	0	1.562060	-3.536274	-2.030203
6	0	2.923132	-3.355898	-2.648484
1	0	3.222916	-4.305396	-3.099514
1	0	2.839374	-2.622311	-3.454790
7	0	4.008526	-2.913794	-1.724347
1	0	4.829101	-2.674727	-2.293612
1	0	4.270075	-3.716107	-1.137861
6	0	3.723973	-1.750087	-0.815031
1	0	3.553786	-2.109957	0.203154
1	0	2.819678	-1.234306	-1.148103
6	0	4.904546	-0.783925	-0.827094
1	0	5.824264	-1.329958	-0.603607
1	0	5.005023	-0.345899	-1.823921
7	0	4.717506	0.281311	0.155908
1	0	3.698205	0.473596	0.232148
6	0	5.383469	1.525672	-0.248350
1	0	6.390373	1.290145	-0.601051

1	0	5.479173	2.176116	0.623990
6	0	4.639767	2.275368	-1.343620
1	0	5.191126	3.184096	-1.601105
1	0	4.582301	1.649991	-2.237948
7	0	3.258569	2.643469	-0.904276
1	0	3.287819	2.997570	0.059857
1	0	2.652341	1.799187	-0.920867
6	0	2.678602	3.694450	-1.806704
1	0	2.782102	3.372044	-2.845896
1	0	3.244510	4.622401	-1.686257
6	0	1.230744	3.958027	-1.513893
6	0	0.690396	4.800682	-0.586567
1	0	1.283403	5.406531	0.094759
6	0	-0.727475	4.799122	-0.609498
1	0	-1.336060	5.396939	0.066440
6	0	-1.252606	3.982433	-1.553677
6	0	-2.694415	3.742862	-1.855603
1	0	-2.850107	3.806307	-2.935660
1	0	-3.293386	4.527164	-1.384212
7	0	-3.170206	2.397775	-1.367949
1	0	-2.704610	1.655006	-1.903184
1	0	-2.914252	2.283681	-0.379477
6	0	-4.656908	2.268202	-1.518852
1	0	-4.962822	2.740743	-2.455703
1	0	-5.147104	2.800355	-0.700163
6	0	-5.118904	0.824724	-1.520219
1	0	-6.208444	0.815106	-1.600379
1	0	-4.722176	0.340897	-2.416476
6	0	-5.365943	0.570111	0.859712
1	0	-6.450755	0.495771	0.751644
1	0	-5.115545	1.632724	0.921594
6	0	-4.964630	-0.095633	2.160372
1	0	-5.348670	0.494215	2.997363
1	0	-5.425935	-1.085237	2.211028
7	0	-3.481703	-0.238787	2.303230
1	0	-3.027078	0.603146	1.930992
1	0	-3.167194	-1.039263	1.741673
6	0	-3.044570	-0.441052	3.735051
1	0	-3.358842	0.414449	4.338738
1	0	-3.518208	-1.338176	4.141192
6	0	-1.558989	-0.583167	3.799800
6	0	-0.833366	-1.732677	3.729206
1	0	-1.278213	-2.723365	3.670674
6	0	0.562361	-1.500105	3.743959
1	0	1.306589	-2.293066	3.710941
6	0	0.873636	-0.172962	3.803838

6	0	2.242347	0.441751	3.812694
1	0	2.153892	1.531756	3.798429
1	0	2.766792	0.156681	4.728648
7	0	3.028332	-0.012666	2.622990
1	0	3.071467	-1.038064	2.623362
1	0	2.534239	0.285200	1.755710
6	0	4.415666	0.535434	2.606025
1	0	4.903167	0.338603	3.563379
1	0	4.384921	1.617191	2.452962
6	0	5.201926	-0.119046	1.484649
1	0	6.255890	0.152255	1.579974
1	0	5.124623	-1.204769	1.581050
8	0	1.264194	-1.141361	0.638526
1	0	1.538686	-0.268732	0.257814
6	0	-0.154070	-1.174601	0.578045
1	0	-0.492571	-2.123424	0.990858
1	0	-0.491235	-1.086493	-0.456998
1	0	-0.593336	-0.349424	1.146116

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**L2 + H<sub>2</sub>O** (partially optimized geometry – geometry of a cryptand is frozen and the position of the encapsulated small molecule inside it is optimized)

7	0	-4.961374	0.479879	-0.280176
6	0	-5.536780	0.953313	1.004344
1	0	-6.625574	1.000123	0.916704
1	0	-5.170765	1.962410	1.212566
6	0	-5.158713	0.021969	2.175926
1	0	-5.555996	0.439952	3.104027
1	0	-5.626292	-0.953974	2.019816
7	0	-3.705418	-0.159096	2.314478
1	0	-3.245231	0.714376	2.033368
1	0	-3.395464	-0.902202	1.677494
6	0	-3.280163	-0.488600	3.684226
1	0	-3.799838	-1.388280	4.025805
1	0	-3.542282	0.330982	4.357225
6	0	-1.776901	-0.723666	3.726335
6	0	-0.871521	0.253687	4.187868
1	0	-1.231718	1.207552	4.567440
6	0	0.478980	-0.021487	4.145116
1	0	1.168164	0.730172	4.525934
6	0	-1.275196	-1.913447	3.247392
1	0	-1.959740	-2.683585	2.897427
6	0	0.066960	-2.141688	3.200944

1	0	0.425246	-3.088562	2.804066
6	0	1.005647	-1.199819	3.648856
6	0	2.466345	-1.464793	3.577719
1	0	2.630123	-2.532090	3.407460
1	0	2.923681	-1.207516	4.536318
7	0	3.131333	-0.688122	2.496857
1	0	2.671127	-0.896583	1.588344
1	0	3.029450	0.316782	2.683156
6	0	4.558469	-1.031218	2.412889
1	0	4.663426	-2.088691	2.156013
1	0	5.029320	-0.872193	3.387166
6	0	5.269352	-0.182766	1.363124
1	0	5.138251	0.874360	1.607261
1	0	6.340031	-0.404282	1.386809
7	0	4.756525	-0.433919	0.019027
6	0	5.356933	-1.667905	-0.526578
1	0	5.382580	-2.419889	0.266117
1	0	6.390079	-1.454346	-0.810698
6	0	4.656575	-2.249915	-1.702099
1	0	5.139820	-3.189325	-1.978700
1	0	4.749818	-1.564648	-2.548739
7	0	3.207120	-2.506092	-1.439626
1	0	3.103495	-2.822968	-0.468674
1	0	2.692065	-1.607475	-1.532184
6	0	2.576558	-3.492685	-2.316847
1	0	2.912946	-4.493109	-2.033273
1	0	2.897584	-3.313475	-3.346612
6	0	1.108461	-3.444026	-2.258314
6	0	0.383191	-3.040651	-1.124931
1	0	0.919034	-2.819720	-0.204474
6	0	-1.002985	-2.913076	-1.147806
1	0	-1.534568	-2.597248	-0.252619
6	0	0.379361	-3.706851	-3.384005
1	0	0.919798	-3.970202	-4.291098
6	0	-1.024078	-3.659694	-3.445089
1	0	-1.562233	-3.970262	-4.337013
6	0	-1.700845	-3.190443	-2.303855
6	0	-3.198116	-3.015408	-2.406703
1	0	-3.479834	-2.881282	-3.454014
1	0	-3.698597	-3.911377	-2.031304
7	0	-3.641691	-1.824488	-1.614278
1	0	-3.052240	-1.016779	-1.850240
1	0	-3.509366	-2.033979	-0.617672
6	0	-5.043679	-1.465751	-1.873943
1	0	-5.606403	-2.381500	-2.075208
1	0	-5.092496	-0.839476	-2.768258

6	0	-5.720733	-0.724389	-0.703649
1	0	-6.726959	-0.424091	-1.007268
1	0	-5.815714	-1.405226	0.146361
6	0	-5.092258	1.439055	-1.405627
1	0	-6.151521	1.647515	-1.575456
1	0	-4.692086	0.981276	-2.313141
6	0	-4.354496	2.764401	-1.145126
1	0	-4.527930	3.434698	-1.991256
1	0	-4.739462	3.190634	-0.340562
7	0	-2.903449	2.610460	-0.951682
1	0	-2.576855	1.772309	-1.446759
1	0	-2.710570	2.493807	0.050549
6	0	-2.173278	3.837845	-1.453856
1	0	-2.397465	3.958481	-2.516666
1	0	-2.571169	4.713057	-0.932699
6	0	-0.699074	3.823317	-1.287548
6	0	0.150108	3.475107	-2.347606
1	0	-0.304013	3.134583	-3.276395
6	0	1.528108	3.535546	-2.283238
1	0	2.122883	3.232782	-3.142217
6	0	-0.073670	4.234462	-0.101124
1	0	-0.672606	4.518358	0.760631
6	0	1.327353	4.279524	-0.024244
1	0	1.787222	4.550897	0.923358
6	0	2.163353	3.986711	-1.114092
6	0	3.618482	4.247440	-1.001135
1	0	3.850151	4.551129	0.023085
1	0	3.888021	5.072754	-1.665505
7	0	4.432826	3.044851	-1.352651
1	0	4.270680	2.819248	-2.340981
1	0	5.426709	3.281964	-1.245697
6	0	4.142319	1.837282	-0.537132
1	0	4.234762	2.092439	0.521222
1	0	3.110880	1.525121	-0.717642
6	0	5.051845	0.701702	-0.839495
1	0	4.934207	0.407994	-1.885678
1	0	6.089599	1.012729	-0.689263
8	0	1.135417	0.972930	1.148413
1	0	0.986011	1.850746	0.758993
1	0	0.617911	0.948872	1.968111

**L2 + CH<sub>3</sub>OH** (partially optimized geometry – geometry of a cryptand is frozen and the position of the encapsulated small molecule inside it is optimized)

7	0	-4.954446	0.466389	-0.292549
6	0	-5.533914	0.931996	0.993005
1	0	-6.622474	0.978680	0.902431

1	0	-5.169120	1.940076	1.208179
6	0	-5.158739	-0.005937	2.160253
1	0	-5.559002	0.406400	3.089597
1	0	-5.625270	-0.981227	1.997083
7	0	-3.705750	-0.186958	2.302029
1	0	-3.245261	0.688404	2.027370
1	0	-3.393476	-0.926160	1.661645
6	0	-3.284331	-0.524189	3.671083
1	0	-3.804468	-1.426147	4.005883
1	0	-3.548921	0.291304	4.348068
6	0	-1.781058	-0.758620	3.716251
6	0	-0.877627	0.216556	4.186135
1	0	-1.239512	1.167982	4.570193
6	0	0.473159	-0.057577	4.145761
1	0	1.160768	0.692253	4.532981
6	0	-1.277231	-1.945298	3.231867
1	0	-1.960280	-2.713783	2.875408
6	0	0.065193	-2.172482	3.188047
1	0	0.425214	-3.116818	2.786718
6	0	1.001992	-1.232690	3.644202
6	0	2.463051	-1.496394	3.575828
1	0	2.627971	-2.562584	3.399838
1	0	2.917410	-1.244438	4.537252
7	0	3.130752	-0.713051	2.501472
1	0	2.673347	-0.916484	1.590408
1	0	3.027718	0.290692	2.693319
6	0	4.558335	-1.054819	2.419713
1	0	4.664682	-2.110716	2.156992
1	0	5.026220	-0.901199	3.396282
6	0	5.271795	-0.199851	1.377007
1	0	5.139341	0.855758	1.626909
1	0	6.342533	-0.420877	1.402556
7	0	4.763078	-0.443468	0.029964
6	0	5.365830	-1.673904	-0.521046
1	0	5.389595	-2.430478	0.267327
1	0	6.399678	-1.458090	-0.800872
6	0	4.669285	-2.249464	-1.701998
1	0	5.153905	-3.186965	-1.982639
1	0	4.764608	-1.559222	-2.544353
7	0	3.219217	-2.508011	-1.445292
1	0	3.112926	-2.830598	-0.476511
1	0	2.703897	-1.609172	-1.534133
6	0	2.591832	-3.489844	-2.330099
1	0	2.927985	-4.491708	-2.051367
1	0	2.915780	-3.304451	-3.357852
6	0	1.123541	-3.442384	-2.275611

6	0	0.394695	-3.046042	-1.142039
1	0	0.927693	-2.830164	-0.218737
6	0	-0.991484	-2.919144	-1.168256
1	0	-1.525889	-2.608847	-0.272816
6	0	0.397915	-3.699071	-3.404958
1	0	0.941178	-3.956817	-4.311973
6	0	-1.005367	-3.652377	-3.469901
1	0	-1.540707	-3.958057	-4.365201
6	0	-1.685771	-3.190178	-2.327952
6	0	-3.182837	-3.015421	-2.434191
1	0	-3.461552	-2.875359	-3.481530
1	0	-3.683884	-3.913853	-2.065494
7	0	-3.629459	-1.829396	-1.636155
1	0	-3.039801	-1.019982	-1.865671
1	0	-3.499941	-2.044612	-0.640400
6	0	-5.030890	-1.469970	-1.897857
1	0	-5.592470	-2.384858	-2.106109
1	0	-5.077451	-0.838524	-2.788648
6	0	-5.711831	-0.735833	-0.725265
1	0	-6.717340	-0.434358	-1.030093
1	0	-5.808906	-1.421667	0.120481
6	0	-5.082592	1.432029	-1.412775
1	0	-6.141476	1.640858	-1.584508
1	0	-4.679477	0.979778	-2.321757
6	0	-4.346397	2.756265	-1.142387
1	0	-4.517741	3.431379	-1.985106
1	0	-4.733985	3.177580	-0.336491
7	0	-2.895832	2.602047	-0.945567
1	0	-2.567279	1.766985	-1.444553
1	0	-2.705834	2.479668	0.056532
6	0	-2.164924	3.832763	-1.438429
1	0	-2.386054	3.959458	-2.501175
1	0	-2.564872	4.704691	-0.913359
6	0	-0.691207	3.818125	-1.267866
6	0	0.161301	3.476592	-2.327427
1	0	-0.289880	3.141220	-3.259517
6	0	1.539069	3.537459	-2.258648
1	0	2.136551	3.240052	-3.117618
6	0	-0.069545	4.222714	-0.077229
1	0	-0.671186	4.501237	0.784396
6	0	1.331218	4.268146	0.004040
1	0	1.788133	4.534262	0.954558
6	0	2.170598	3.982175	-1.085027
6	0	3.625231	4.243090	-0.966265
1	0	3.853702	4.540942	0.060385
1	0	3.896230	5.072417	-1.625019

7	0	4.441328	3.043045	-1.322377
1	0	4.282228	2.823109	-2.312479
1	0	5.434750	3.280110	-1.211116
6	0	4.149147	1.830575	-0.514765
1	0	4.238322	2.079616	0.545325
1	0	3.118432	1.518870	-0.700129
6	0	5.060241	0.697307	-0.821055
1	0	4.945859	0.409631	-1.869273
1	0	6.097362	1.008060	-0.665958
8	0	1.214481	0.951417	0.663525
1	0	1.278580	1.900549	0.473252
6	0	-0.156448	0.598211	0.705094
1	0	-0.228853	-0.388383	1.159662
1	0	-0.576215	0.562754	-0.307613
1	0	-0.719488	1.301228	1.326726

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### Energies used in calculation

**Table 1.** HF energies of the reagents (Hartree)

Reagent	Energy
Water	-76.404808
Methanol	-115.696643
L1	-2808.228379
L2	-1843.193380

**Table 2.** Counterpoise corrected HF energies ( $E_{\text{CORR}}$ ) and corresponding BSSE energies ( $E_{\text{BSSE}}$ ) for investigated complexes (Hartree)

Complex	$E_{\text{CORR}}$	$E_{\text{BSSE}}$
<i>Geometry is modeled from the crystallographic coordinates with corrected lengths of bonds that involve hydrogen atoms</i>		
L1 + CH <sub>3</sub> OH	-2923.925963	0.005291
L2 + CH <sub>3</sub> OH	-1958.899439	0.006283
<i>Partially optimized geometry – geometry of a cryptand is frozen and the position of the encapsulated small molecule inside it is optimized</i>		
L1 + H <sub>2</sub> O	-2884.634164	0.003804
L1 + CH <sub>3</sub> OH	-2923.940858	0.004681
L2 + H <sub>2</sub> O	-1919.619293	0.005897
L2 + CH <sub>3</sub> OH	-1958.910385	0.006407