

Chemical Equilibrium of Zinc-Acetate Complexes in Ethanol Solution. A Theoretical Description Through Thermodynamic Cycles

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Cartesian coordinates for ethanol clusters and for the
 $\left[\text{OAc}(\text{EtOH})_{j_{\text{first}}} \right]^{-} (\text{EtOH})_{j_{\text{second}}}$, $\left[\text{Zn}(\text{EtOH})_{k_c} \right]^{2+} (\text{EtOH})_{k_f}$ and $\left[\text{Zn}(\text{OAc})_n \right]^{2-n}$
species in gas phase at the M05-2X/6-31+G(d) level of theory

S11

Cartesian coordinates for ethanol clusters and for $\left[\text{OAc}(\text{EtOH})_{j_{\text{first}}} \right]^{-} (\text{EtOH})_{j_{\text{second}}}$,
 $\left[\text{Zn}(\text{EtOH})_{k_c} \right]^{2+} (\text{EtOH})_{k_f}$ and $\left[\text{Zn}(\text{OAc})_n \right]^{2-n}$ species in solution phase at the
M05-2X/6-31+G(d) /SMD level of theory

S38

S3

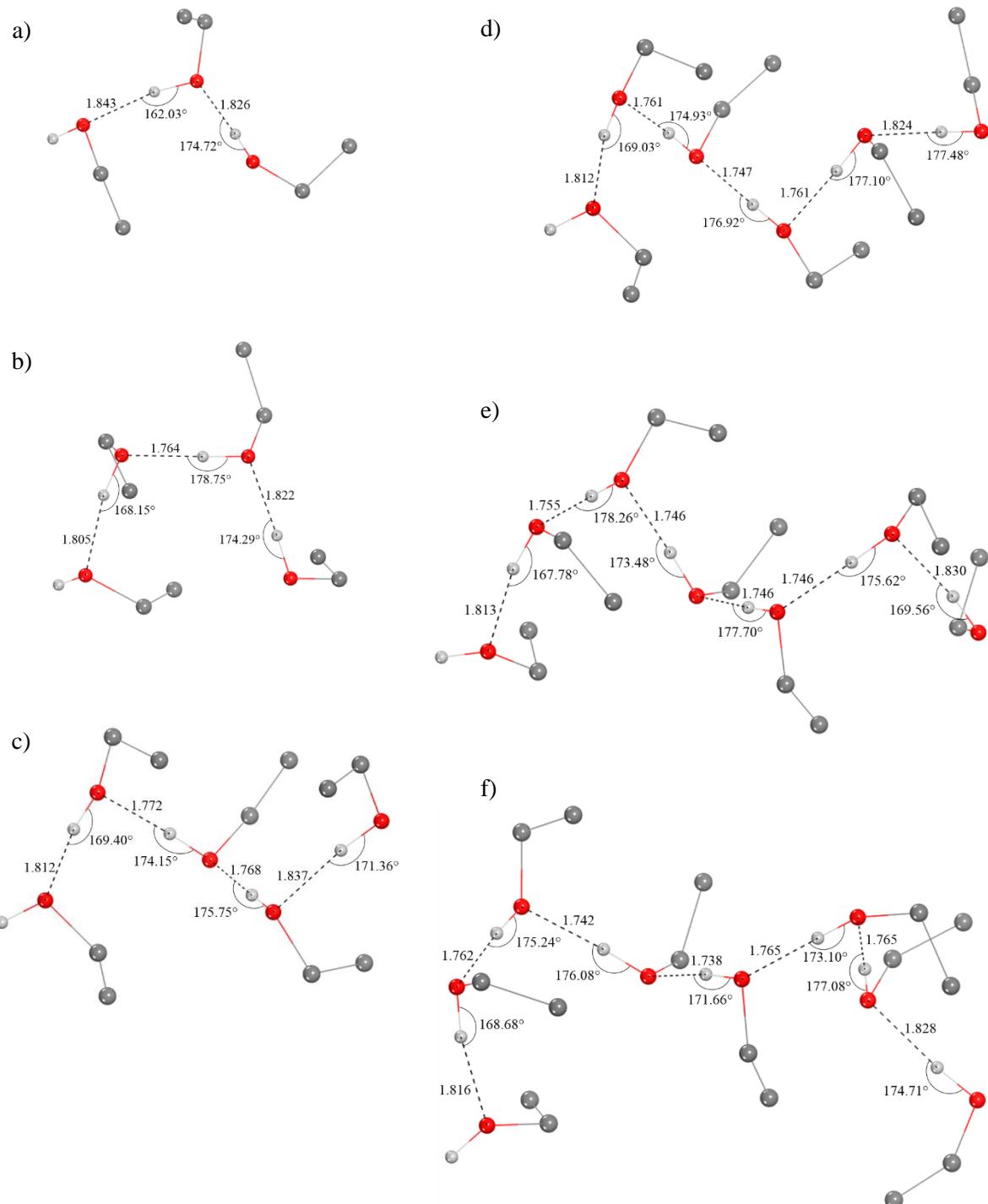


Figure S1. Relevant parameters of optimized geometries in the gas phase optimized for *linear-gauche* ethanol clusters: a) trimer, b) tetramer, c) pentamer, d) hexamer, e) heptamer and f) octamer, at the level M05-2X/6-31+G(d)

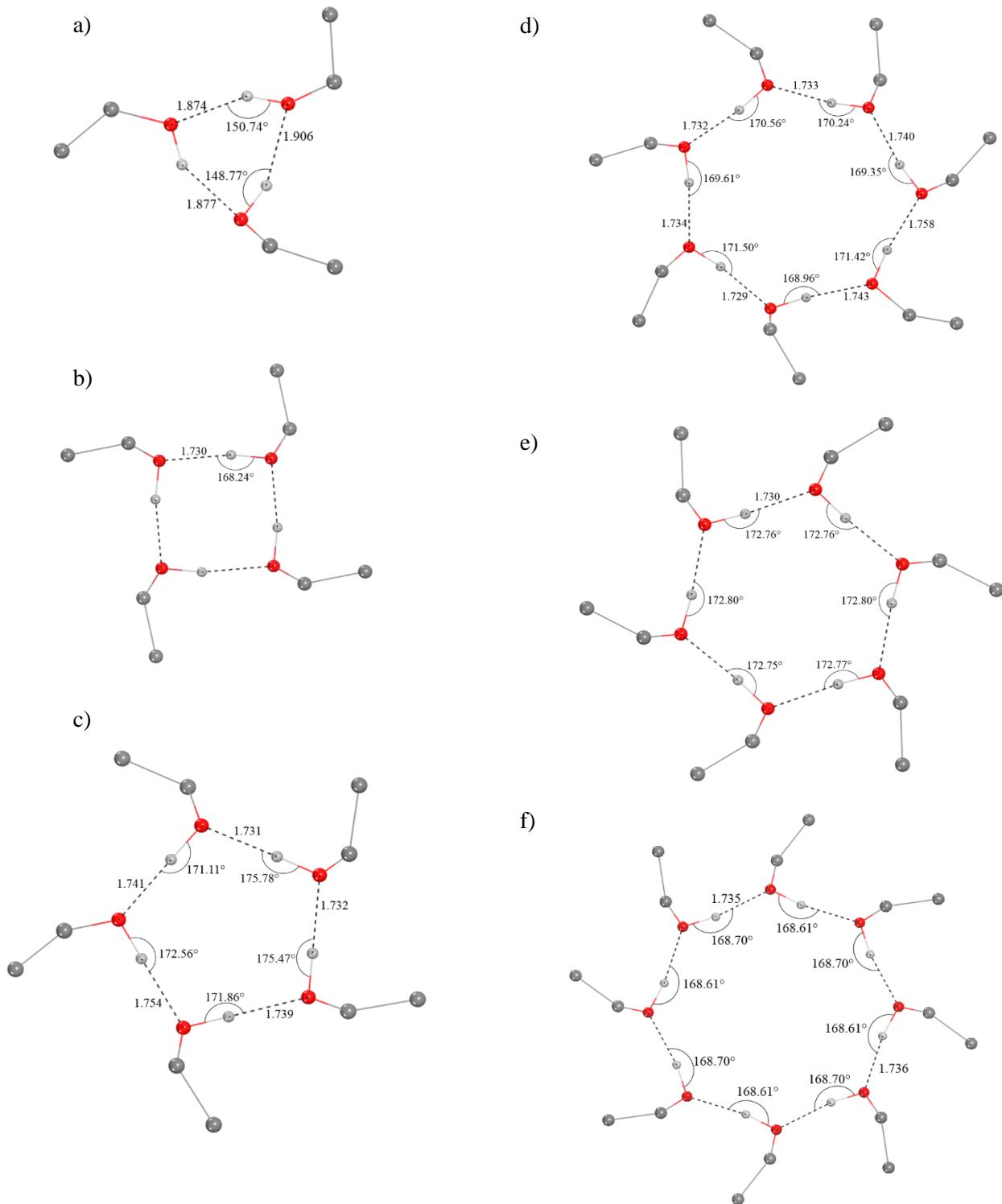


Figure S2. Relevant parameters of optimized geometries in the gas phase optimized for cyclic-gauche ethanol clusters: a) trimer, b) tetramer, c) pentamer, d) hexamer, e) heptamer and f) octamer, at the level M05-2X/6-31+G(d)

Table S1. Thermodynamic stability of ethanol clusters by comparing their corresponding solvation Gibbs free energies ($\Delta G_{\text{solv}}^*(\text{EtOH})_x$) as well as their relative solution phase Gibbs free energies ($\Delta G_s(\text{EtOH})_x$).

x	$\Delta G_{\text{solv}}^*(\text{EtOH})_x$	$\Delta G_s(\text{EtOH})_x^{\text{linear}} - \Delta G_s(\text{EtOH})_x^{\text{cyclic}}$
Cyclic-gauche		
3	-10.27	1.03
4	-11.17	3.16
5	-12.71	4.12
6	-13.62	4.62
7	-15.54	5.42
8	-16.84	5.45
Linear-gauche		
3	-12.86	
4	-14.08	
5	-17.64	
6	-19.98	
7	-21.65	
8	-24.44	

Table S2. Average O-C-O bond distances obtained for the $\left[\text{OAc}(\text{EtOH})_{j_{\text{first}}} \right]^- (\text{EtOH})_{j_{\text{second}}}$ species at the M052X/6-31+G (d) level of theory with the SMD continuum solvation model.

Species	Ethanol		Water ⁴⁶
	Gas phase	Solution phase	
Acetate	1.256	1.264	
$\left[\text{Ac}(\text{EtOH})\right]^-$	1.267, 1.249	1.271, 1.258	1.265
$\left[\text{Ac}(\text{EtOH})_2\right]^-$	1.278, 1.241	1.278, 1.253	1.258, 1.270
$\left[\text{Ac}(\text{EtOH})_3\right]^-$	1.274, 1.248	1.272, 1.259	1.259, 1.273
$\left[\text{Ac}(\text{EtOH})_4\right]^-$	1.261, 1.262	1.267, 1.265	1.260, 1.272
$\left[\text{Ac}(\text{EtOH})_4\right]^- (\text{EtOH})$	1.265, 1.259	1.266	1.262, 1.274
$\left[\text{Ac}(\text{EtOH})_4\right]^- (\text{EtOH})_2$	1.261, 1.262	1.267, 1.265	1.259, 1.278

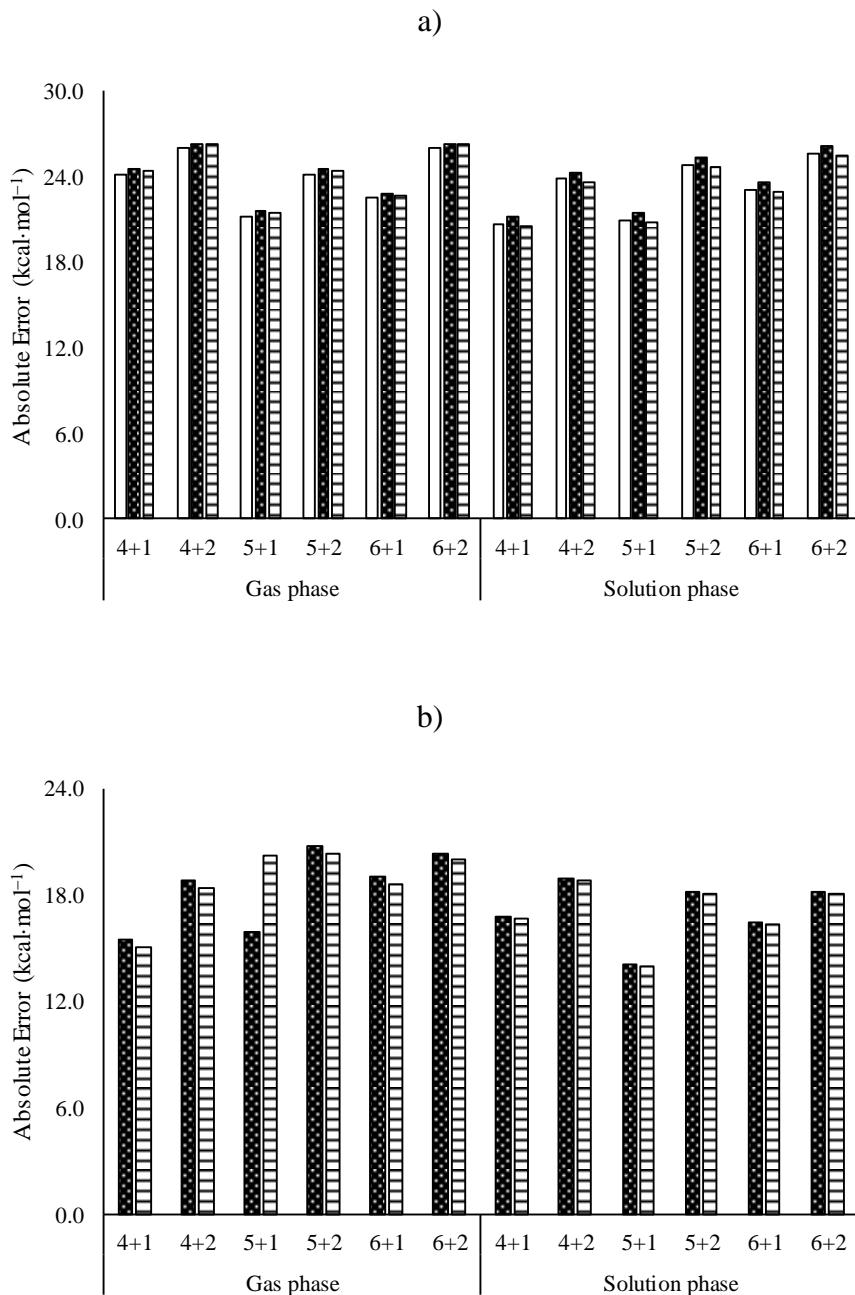


Figure S3. Absolute errors in the computation of $\Delta_r G_{s,1}^*$ for the $[\text{Zn(OAc)}]^+$ species at the M05-2X/6-31+G(d) /SMD level of theory; by means of a) *variant 1* (Eq.(7)) and b) *variant 2* (Eq.(11)), for $j=1$ (white solid bars) $j=2$ (white dotted bars) $j=3$ (bars with horizontal lines)

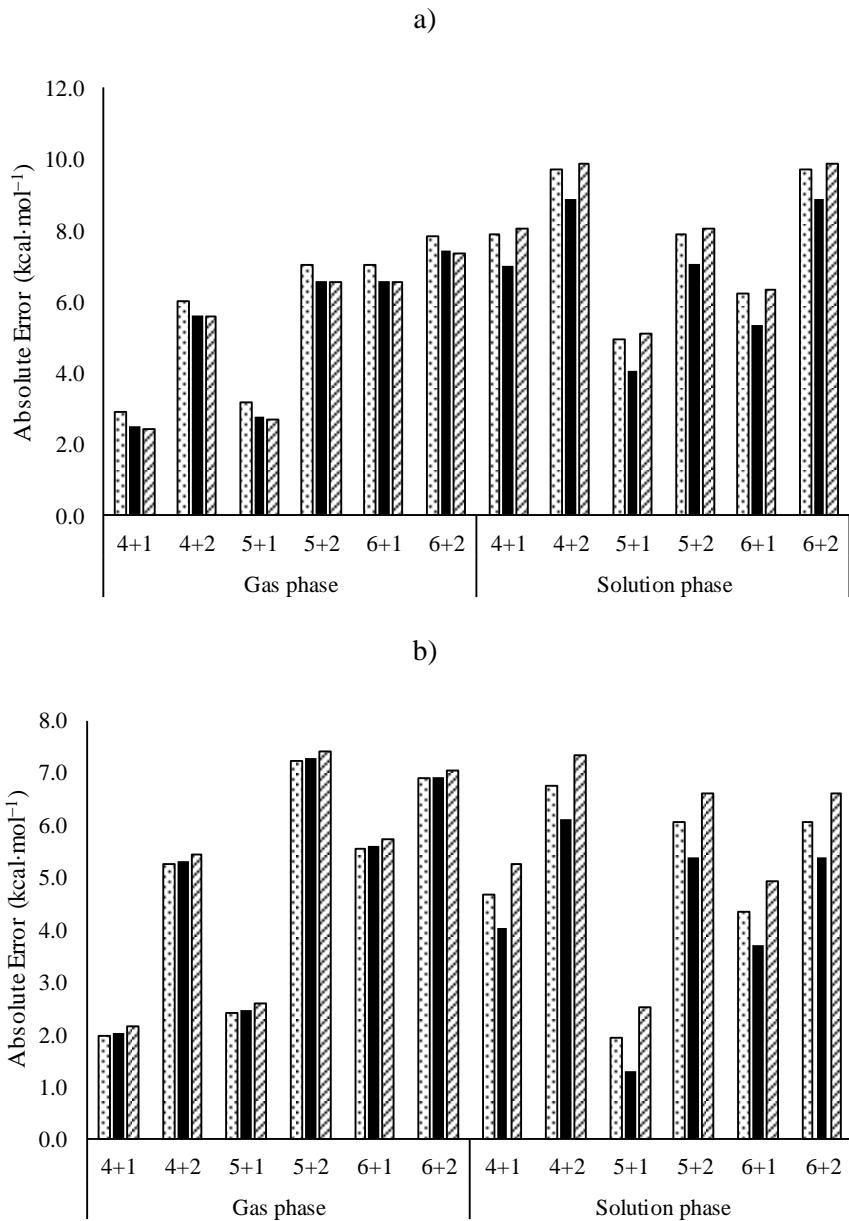


Figure S4. Absolute errors in the computation of $\Delta_r G_{s,1}^*$ for the $[\text{Zn(OAc)}(\text{EtOH})_2]^+$ species at the M05-2X/6-31+G(d) /SMD level of theory; by means of a) *variant 1* (Eq.(7)) and b) *variant 2* (Eq.(11)), for $j = 4+0$ (dotted bars) $j = 4+1$ (solid bars) and $j = 4+2$ (bars with diagonal lines).

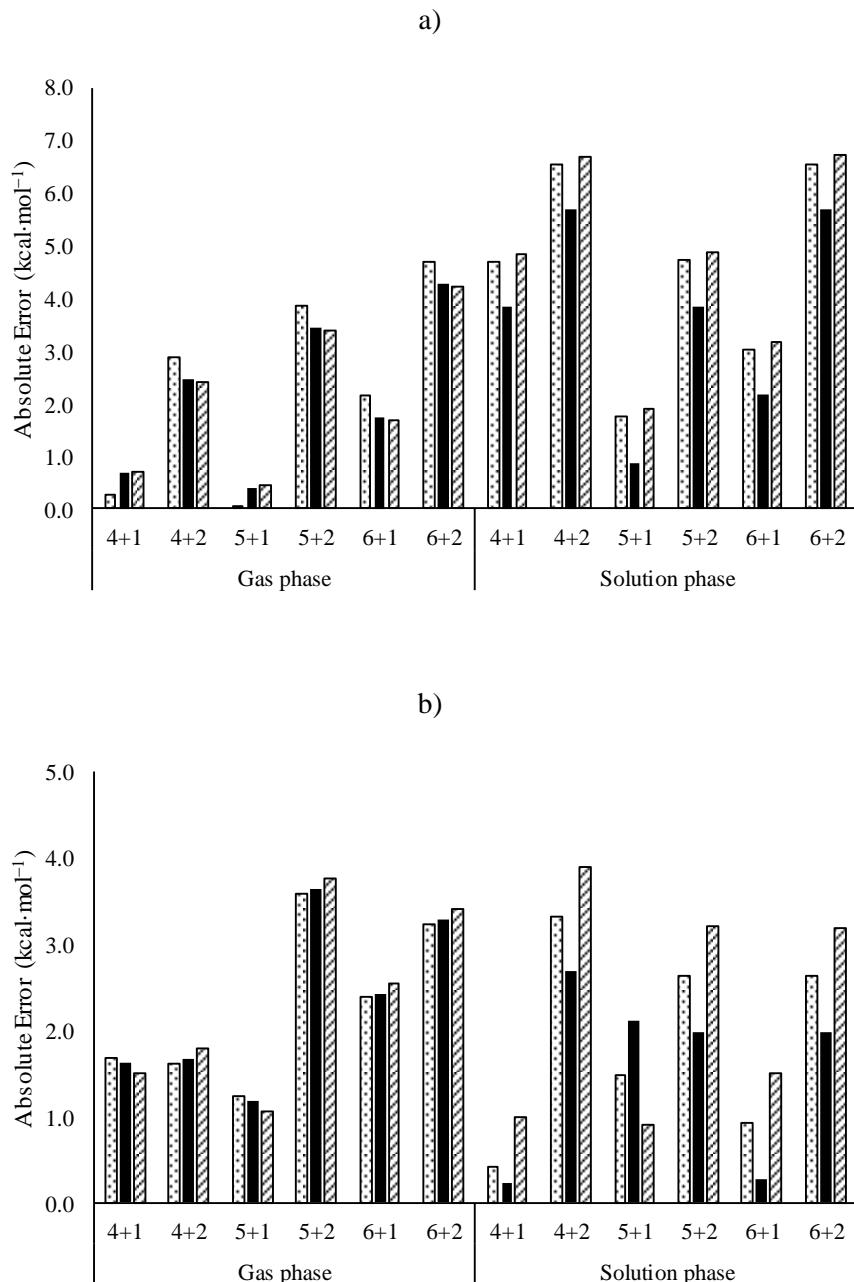


Figure S5. Absolute errors in the computation of $\Delta_r G_{s,1}^*$ for the $[\text{Zn(OAc)}(\text{EtOH})_2]^+(\text{EtOH})$ species at the M05-2X/6-31+G(d)/SMD level of theory; by means of a) *variant 1* (Eq.(7)) and b) *variant 2* (Eq.(11)), for $j = 4+0$ (dotted bars) $j = 4+1$ (solid bars) and $j = 4+2$ (bars with diagonal lines).

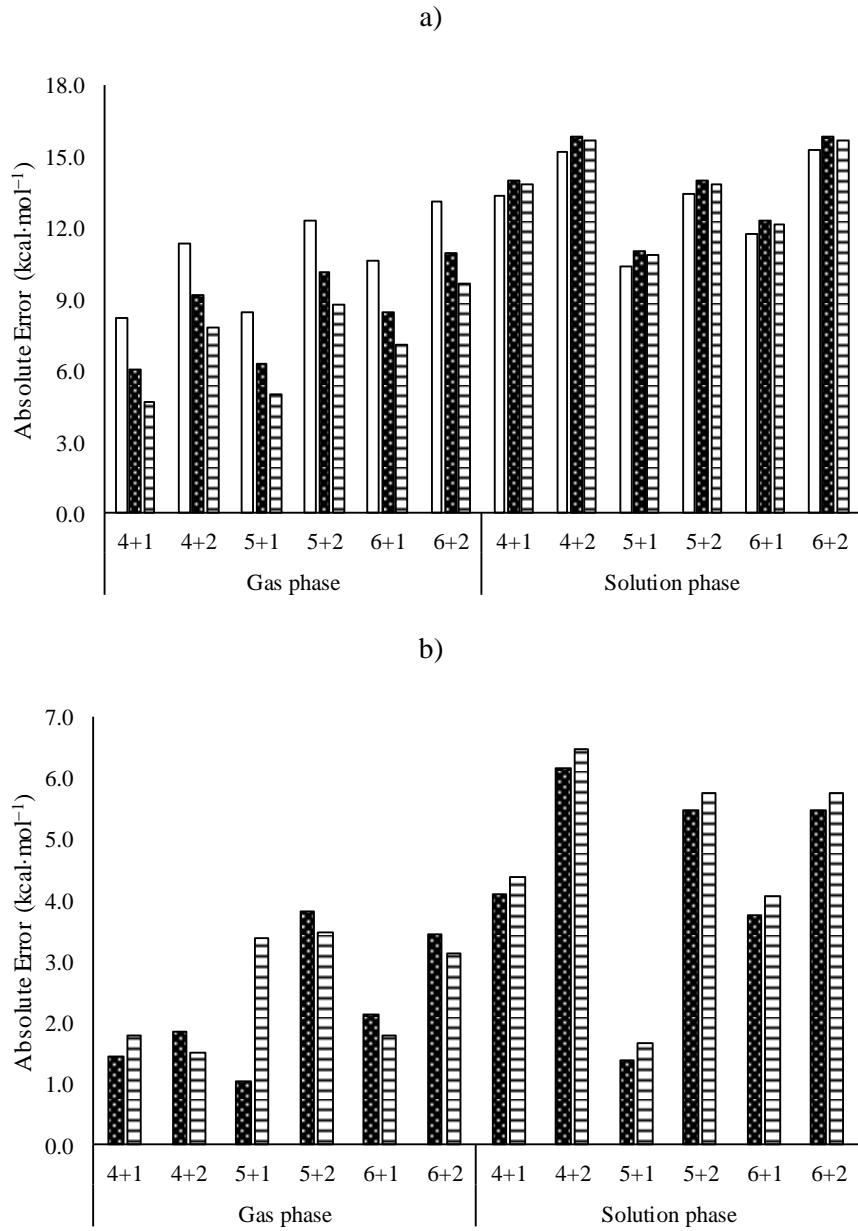
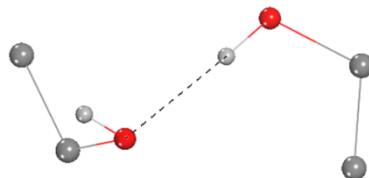


Figure S6. Absolute errors in the computation of $\Delta_r G_{s,2}^*$ for the $[\text{Zn(OAc)}_2]$ species at the M05-2X/6-31+G(d)/SMD level of theory; by means of a) *variant 1* (Eq.(7)) and b) *variant 2* (Eq. (11)), for $j=1$ (white solid bars) $j=2$ (white dotted bars) $j=3$ (bars with horizontal lines).

Optimized geometries of Zinc complexes in gas phase at the M05-2X/6-31 + G(d) level of theory.

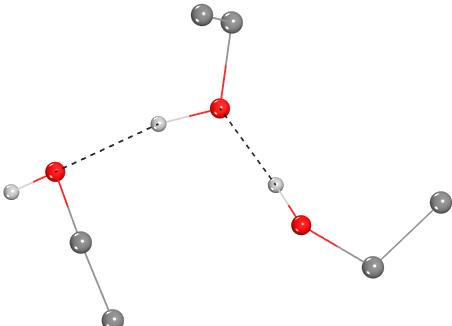
Gauche-(EtOH)₂



C, 2.177314, -0.873693, -0.580237
 C, 2.243383, 0.44123, 0.1849
 O, 0.987534, 1.101532, 0.216753
 H, 3.158841, -1.353165, -0.618326
 H, 1.47967, -1.562175, -0.096173
 H, 1.836082, -0.695328, -1.602111
 H, 2.93316, 1.130914, -0.301691
 H, 2.609674, 0.267176, 1.203277
 H, 0.344395, 0.517285, 0.652964
 C, -2.385505, 0.715011, -0.569761
 C, -1.794527, -0.650249, -0.264053
 O, -1.097635, -0.664561, 0.990247
 H, -2.879983, 0.703581, -1.543752
 H, -3.130643, 0.995467, 0.180251
 H, -1.597917, 1.469683, -0.584947
 H, -1.042235, -0.917718, -1.004461
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 H, -1.710296, -0.418214, 1.694299

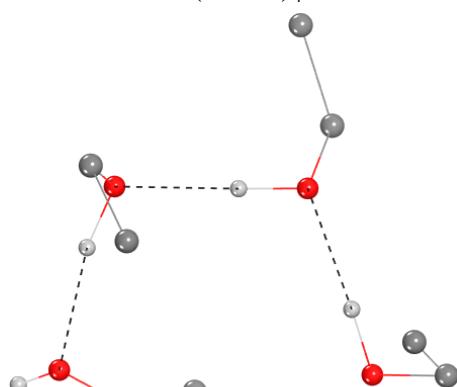
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 H, -1.340521, -3.006618, 0.418734
 H, -3.034431, -1.30059, 1.177535
 H, -1.391782, -0.636899, 1.152171
 H, -0.999573, 0.787173, -0.911173
 O, -0.054874, 1.025234, -0.977267
 C, 0.126277, 2.34621, -0.463848
 C, -0.330623, 2.460656, 0.982767
 H, -0.406473, 3.060991, -1.09811
 H, 1.193464, 2.551804, -0.5493
 H, 0.222374, 1.759082, 1.610523
 H, -1.397013, 2.237229, 1.064837
 H, -0.162377, 3.473364, 1.357512
 H, 0.801693, -0.152366, 0.12431
 O, 1.194228, -0.768406, 0.773488
 C, 2.296048, -1.415293, 0.158003
 C, 3.341392, -0.419736, -0.326122
 H, 1.95487, -2.038023, -0.678671
 H, 2.720712, -2.078176, 0.912565
 H, 3.693799, 0.188564, 0.5091
 H, 2.912066, 0.243843, -1.081327
 H, 4.196449, -0.935118, -0.771166

Linear-gauche (EtOH)₃



C, -1.700647, -2.231139, -0.259797
 C, -2.193068, -1.034697, 0.532598
 O, -2.585092, 0.051217, -0.327919

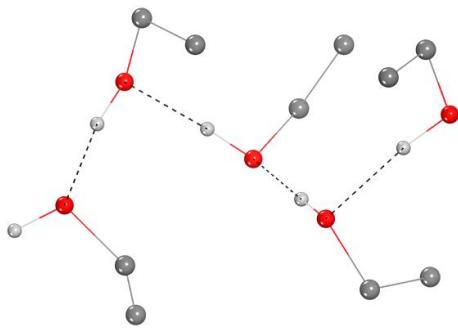
Linear-gauche (EtOH)₄



C, 0.524581, 1.814974, -2.128073
 C, 0.885572, 2.36975, -0.763645
 O, 2.23112, 2.01905, -0.378431

H, 2.844864, 2.339797, -1.050807
 H, 1.150383, 2.251911, -2.912257
 H, 0.653751, 0.73046, -2.140783
 H, -0.521313, 2.033397, -2.346714
 H, 0.779394, 3.456677, -0.7342
 H, 0.240575, 1.944428, 0.001837
 H, 2.21171, 0.254227, 0.001725
 O, 2.004817, -0.671395, 0.243897
 C, 2.20786, -0.838054, 1.649213
 C, 1.333699, 0.104509, 2.461681
 H, 3.265556, -0.688279, 1.883472
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 H, 0.279931, -0.055852, 2.223864
 H, 1.58618, 1.144366, 2.242161
 H, 1.478251, -0.065461, 3.531403
 H, 0.33045, -1.067727, -0.144041
 O, -0.596801, -1.309054, -0.361558
 C, -0.574575, -2.283678, -1.40089
 C, 0.145523, -3.548082, -0.959743
 H, -0.10078, -1.865365, -2.295545
 H, -1.616832, -2.494466, -1.641018
 H, -0.340556, -3.968307, -0.077452
 H, 1.18534, -3.323175, -0.711483
 H, 0.136032, -4.296389, -1.756065
 H, -1.603896, 0.203199, -0.495107
 O, -2.117343, 1.034948, -0.47528
 C, -3.26807, 0.823226, 0.326996
 C, -2.907528, 0.508581, 1.772702
 H, -3.881124, 0.016251, -0.091504
 H, -3.850868, 1.743423, 0.271504
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 H, -2.326767, -0.415266, 1.824898
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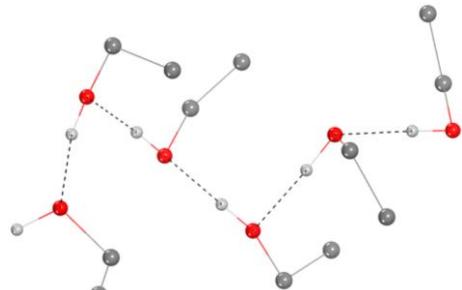
Linear-gauche (EtOH)₅



C, -2.81395, 2.007274, -0.92055
 C, -2.632027, 0.729458, -1.719318
 O, -3.428197, -0.348858, -1.192491
 H, -4.359076, -0.09449, -1.21363

H, -3.856704, 2.337975, -0.938348
 H, -2.506488, 1.86142, 0.116288
 H, -2.203805, 2.804409, -1.350514
 H, -2.888977, 0.876942, -2.771279
 H, -1.600526, 0.387264, -1.660582
 H, -2.772218, -1.000522, 0.365513
 O, -2.256589, -1.312978, 1.135716
 C, -1.621151, -2.543948, 0.784595
 C, -0.679216, -2.37724, -0.397318
 H, -2.383645, -3.298441, 0.571405
 H, -1.078023, -2.86259, 1.674328
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 H, -1.23674, -2.108039, -1.29717
 H, -0.13844, -3.306436, -0.595158
 H, -1.19043, 0.036557, 1.563421
 O, -0.599098, 0.809528, 1.703178
 C, 0.18886, 0.591916, 2.874811
 C, 1.255268, -0.471309, 2.659576
 H, -0.469525, 0.322122, 3.705344
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 H, 0.795339, -1.433152, 2.418183
 H, 1.850912, -0.601048, 3.566921
 H, 0.250241, 1.04507, 0.171133
 O, 0.702381, 1.108661, -0.69995
 C, 1.126772, 2.456501, -0.905214
 C, 1.984294, 2.964846, 0.244078
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 H, 1.695106, 2.451943, -1.835544
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 H, 1.406895, 2.978652, 1.171847
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 H, 2.282984, 0.17607, -0.608809
 O, 3.178773, -0.19775, -0.499191
 C, 3.13429, -1.581955, -0.798818
 C, 2.625256, -1.846549, -2.209419
 H, 2.511813, -2.113135, -0.066762
 H, 4.155004, -1.949598, -0.688206
 H, 3.268814, -1.350497, -2.938185
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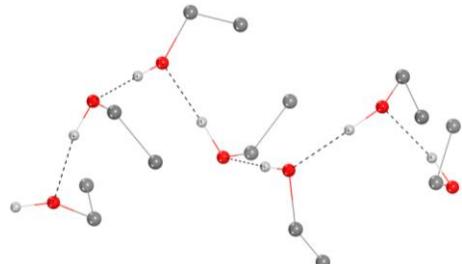
Linear-gauche (EtOH)₆



C, 3.537753, 1.674668, -1.282099
 C, 3.453447, 1.579898, 0.229801
 O, 4.262205, 0.507441, 0.74849
 H, 5.176766, 0.63502, 0.467443
 H, 4.559804, 1.890623, -1.60765
 H, 3.20821, 0.742709, -1.744673
 H, 2.891462, 2.479779, -1.637277
 H, 3.758384, 2.51533, 0.705693
 H, 2.43489, 1.35275, 0.537821
 H, 3.479865, -1.104552, 0.477317
 O, 2.898377, -1.878275, 0.336986
 C, 2.389193, -2.301843, 1.603873
 C, 1.56151, -1.219531, 2.278366
 H, 3.222936, -2.607907, 2.242115
 H, 1.78417, -3.185639, 1.401408
 H, 0.720615, -0.921495, 1.648767
 H, 2.180067, -0.341918, 2.48205
 H, 1.163033, -1.582221, 3.229481
 H, 1.806199, -1.432267, -0.970213
 O, 1.222268, -1.100909, -1.689539
 C, 0.3039, -2.130783, -2.0575
 C, -0.715073, -2.402412, -0.961428
 H, 0.86073, -3.038106, -2.307613
 H, -0.190395, -1.78395, -2.965323
 H, -1.246181, -1.487595, -0.692992
 H, -0.225494, -2.781808, -0.061341
 H, -1.446415, -3.145579, -1.290142
 H, 0.56912, 0.42614, -1.14862
 O, 0.223295, 1.279068, -0.796347
 C, -0.341633, 2.029896, -1.87272
 C, -1.614017, 1.393443, -2.41019
 H, 0.404319, 2.135367, -2.66666
 H, -0.549844, 3.022635, -1.4724
 H, -2.375926, 1.322914, -1.631246
 H, -1.40661, 0.389773, -2.790645
 H, -2.018229, 1.989057, -3.232745
 H, -0.882821, 0.793716, 0.48494
 O, -1.487696, 0.475506, 1.191136
 C, -1.378554, 1.349558, 2.312099
 C, -1.760132, 2.777628, 1.951005

H, -0.358933, 1.310187, 2.710583
 H, -2.052119, 0.950624, 3.070821
 H, -2.776315, 2.807685, 1.552797
 H, -1.077875, 3.17316, 1.194175
 H, -1.708018, 3.425373, 2.829707
 H, -3.196748, 0.511271, 0.556121
 O, -4.096548, 0.537249, 0.176455
 C, -4.368399, -0.733161, -0.389444
 C, -4.255908, -1.853666, 0.635888
 H, -3.694668, -0.928988, -1.234631
 H, -5.383035, -0.680064, -0.785973
 H, -4.954593, -1.681002, 1.456629
 H, -3.244257, -1.891175, 1.047761
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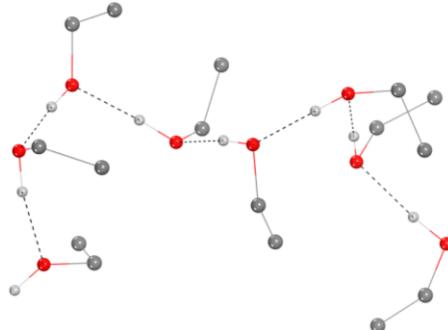
Linear-gauche (EtOH)₇



H, 5.634422, 1.31946, 1.156647
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 C, 3.701825, 2.685497, 0.059172
 H, 2.807331, 1.166728, 1.29562
 H, 3.768046, 2.345201, 2.200532
 H, 3.620758, 2.103635, -0.860606
 H, 4.611359, 3.292155, 0.015822
 H, 2.845476, 3.360383, 0.112507
 H, 4.433327, -0.502494, 0.065176
 O, 4.036361, -1.16631, -0.533185
 C, 3.732675, -2.343751, 0.218324
 C, 2.780167, -2.059147, 1.368539
 H, 4.663595, -2.785942, 0.584526
 H, 3.288687, -3.042557, -0.490999
 H, 1.840309, -1.640876, 1.002737
 H, 3.23333, -1.354045, 2.06992
 H, 2.554961, -2.980766, 1.911593
 H, 2.810091, -0.356055, -1.492315
 O, 2.13207, 0.124064, -2.018701
 C, 1.534607, -0.794995, -2.935204
 C, 0.505476, -1.688548, -2.259127
 H, 2.321498, -1.392243, -3.404235
 H, 1.066546, -0.192066, -3.713917

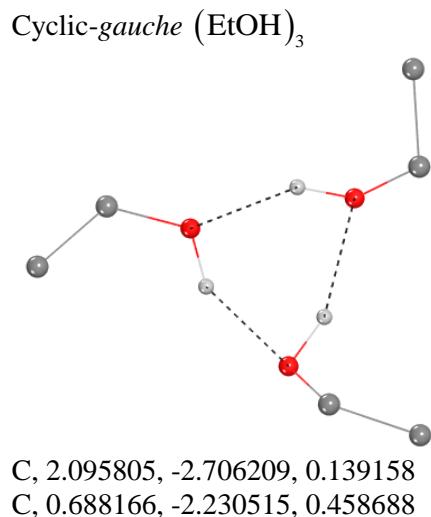
H, -0.306913, -1.094967, -1.836425
 H, 0.96198, -2.26261, -1.449178
 H, 0.078964, -2.390233, -2.981057
 H, 1.141731, 0.969582, -0.856175
 O, 0.616151, 1.370779, -0.124739
 C, -0.217216, 2.404571, -0.650536
 C, -1.130848, 1.900073, -1.756155
 H, 0.410962, 3.224594, -1.012995
 H, -0.802025, 2.776995, 0.191337
 H, -1.750422, 1.073669, -1.402565
 H, -0.542727, 1.55398, -2.610059
 H, -1.788585, 2.702184, -2.101091
 H, -0.151986, 0.011808, 0.658326
 O, -0.587138, -0.772414, 1.064645
 C, -0.698149, -0.562979, 2.47271
 C, -1.498581, 0.686842, 2.803147
 H, 0.305385, -0.510098, 2.908324
 H, -1.189186, -1.451123, 2.871489
 H, -2.504885, 0.624752, 2.383465
 H, -1.000249, 1.572837, 2.400734
 H, -1.582179, 0.809344, 3.8861
 H, -2.045311, -0.99651, 0.130666
 O, -2.851795, -1.057422, -0.429569
 C, -3.161576, -2.431469, -0.642207
 C, -3.445602, -3.153317, 0.666615
 H, -2.33783, -2.914996, -1.177891
 H, -4.039045, -2.446244, -1.289045
 H, -4.26282, -2.662734, 1.199309
 H, -2.559339, -3.143438, 1.305895
 H, -3.721916, -4.194526, 0.4824
 H, -4.113975, -0.093215, 0.4783
 O, -4.666131, 0.551071, 0.961882
 C, -4.477748, 1.8122, 0.344606
 C, -4.972074, 1.824519, -1.095773
 H, -3.417867, 2.100028, 0.379079
 H, -5.033921, 2.53382, 0.944535
 H, -6.032639, 1.568564, -1.128257
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 H, -4.833953, 2.810594, -1.548474

Linear-gauche (EtOH)₈



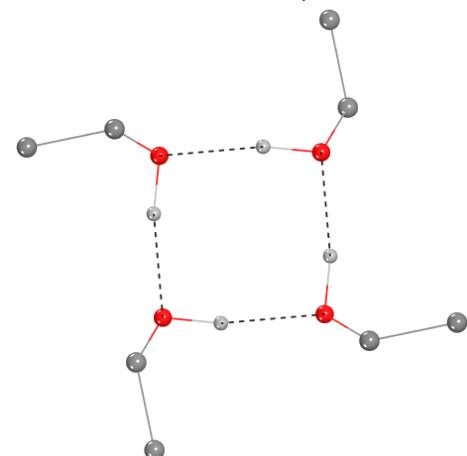
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 O, -4.103169, -2.837575, -0.406882
 C, -2.768846, -2.632983, -0.90787
 C, -2.768749, -2.15613, -2.347668
 H, -2.32857, -1.87598, -0.262317
 H, -2.200524, -3.559726, -0.793429
 H, -3.316018, -1.216154, -2.439266
 H, -3.224465, -2.898531, -3.009666
 H, -1.742643, -1.988037, -2.680376
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 O, -5.178541, -0.371685, 0.301751
 C, -5.12903, -0.301996, 1.728028
 C, -3.746198, -0.631083, 2.267726
 H, -5.879107, -0.977291, 2.149216
 H, -5.417546, 0.716992, 1.986575
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 H, -3.722093, -0.520879, 3.354668
 H, -4.237935, 0.770363, -0.654804
 O, -3.654616, 1.350764, -1.193404
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 C, -3.332773, 3.075922, 0.509234
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 H, -3.43336, 3.311762, -1.636713
 H, -2.260495, 2.871341, 0.543406
 H, -3.815617, 2.494088, 1.297548
 H, -3.491269, 4.135794, 0.723216
 H, -2.038471, 0.731856, -0.989964
 O, -1.152576, 0.322769, -0.858854
 C, -0.27229, 0.759559, -1.899215
 C, -0.000103, 2.253379, -1.816248
 H, -0.710091, 0.499148, -2.867878
 H, 0.653735, 0.197692, -1.775618
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 H, -0.931701, 2.819032, -1.900514
 H, 0.658384, 2.565106, -2.630776
 H, -0.508084, 0.401177, 0.753044
 O, -0.051928, 0.343501, 1.623817

C, 0.134724, -1.0371, 1.933089
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 H, -0.8407, -1.514985, 2.070578
 H, 0.652141, -1.065154, 2.892699
 H, 1.90072, -1.264057, 0.708092
 H, 0.402322, -1.754616, -0.088551
 H, 1.124976, -2.796149, 1.152647
 H, 1.412926, 1.291139, 1.356962
 O, 2.221871, 1.786412, 1.094718
 C, 3.068884, 1.942638, 2.23349
 C, 3.718144, 0.631414, 2.650019
 H, 2.489217, 2.3695, 3.056992
 H, 3.829139, 2.670215, 1.948373
 H, 4.321614, 0.219761, 1.838226
 H, 2.956504, -0.102671, 2.926115
 H, 4.366909, 0.786616, 3.516076
 H, 2.86598, 0.914872, -0.298935
 O, 3.208443, 0.386689, -1.054726
 C, 3.866477, 1.264002, -1.967755
 C, 4.965444, 2.067611, -1.288472
 H, 3.131688, 1.931258, -2.42973
 H, 4.282556, 0.626413, -2.748216
 H, 5.692722, 1.397655, -0.825663
 H, 4.540621, 2.713101, -0.515855
 H, 5.482685, 2.700186, -2.014191
 H, 4.512744, -0.742011, -0.449629
 O, 5.265095, -1.274246, -0.124377
 C, 4.770903, -2.524459, 0.322148
 C, 4.041729, -3.279779, -0.781232
 H, 4.108033, -2.388824, 1.18706
 H, 5.638682, -3.091535, 0.661129
 H, 4.713593, -3.45006, -1.624491
 H, 3.185092, -2.701427, -1.136829
 H, 3.679066, -4.245873, -0.419195



O, 0.062172, -1.639839, -0.679265
 H, 0.614877, -0.881661, -0.954946
 H, 2.074052, -3.420317, -0.685322
 H, 2.728214, -1.86304, -0.151435
 H, 2.54819, -3.186106, 1.010211
 H, 0.053415, -3.06742, 0.748418
 H, 0.704896, -1.514169, 1.288518
 H, -1.21066, -0.411186, -0.053014
 O, -1.453489, 0.487729, 0.248858
 C, -2.745455, 0.827798, -0.248865
 C, -3.816687, -0.102475, 0.296473
 H, -2.740623, 0.810551, -1.343384
 H, -2.927359, 1.853079, 0.072029
 H, -3.818153, -0.075892, 1.387215
 H, -3.632476, -1.130628, -0.024672
 H, -4.804421, 0.193824, -0.064584
 H, 0.198021, 1.124274, -0.368335
 O, 1.08332, 0.954031, -0.747807
 C, 2.081524, 1.441485, 0.143483
 C, 1.988253, 2.948422, 0.320535
 H, 3.038236, 1.166545, -0.300673
 H, 1.999699, 0.936867, 1.112867
 H, 1.029523, 3.223137, 0.76711
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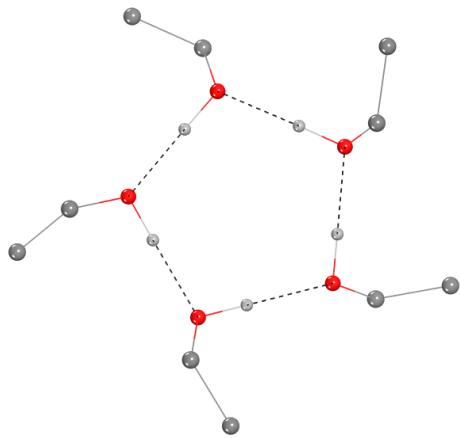
Cyclic-gauche $(\text{EtOH})_4$



C, -3.911302, -0.161345, 0.963906
 C, -2.693351, 0.731903, 1.13299
 O, -1.821066, 0.636151, 0.008141
 H, -1.500496, -0.293198, -0.056914
 H, -4.45126, 0.106496, 0.054292
 H, -3.605597, -1.207894, 0.892438
 H, -4.585948, -0.059733, 1.817362
 H, -2.987546, 1.779558, 1.19985

H, -2.15066, 0.471383, 2.047313
 H, -0.293196, 1.500511, 0.056924
 O, 0.636153, 1.821055, -0.008248
 C, 0.731878, 2.692979, -1.13338
 C, -0.161296, 3.911029, -0.964622
 H, 0.471269, 2.150012, -2.047514
 H, 1.779544, 2.987099, -1.200402
 H, 0.10663, 4.451257, -0.055193
 H, -1.207855, 3.605398, -0.892993
 H, -0.059705, 4.585407, -1.818293
 H, 1.500485, 0.293173, -0.056763
 O, 1.821048, -0.636165, 0.008497
 C, 2.69319, -0.731717, 1.133474
 C, 3.911171, 0.161487, 0.964376
 H, 2.987366, -1.779362, 1.200567
 H, 2.150387, -0.47102, 2.04768
 H, 3.605486, 1.208026, 0.892677
 H, 4.45124, -0.106528, 0.054879
 H, 4.585711, 0.060026, 1.817935
 H, 0.29317, -1.500515, 0.057224
 O, -0.636168, -1.821075, -0.008031
 C, -0.73173, -2.693156, -1.133056
 C, 0.161469, -3.911151, -0.964027
 H, -0.471032, -2.150304, -2.047233
 H, -1.779377, -2.987322, -1.200161
 H, -0.106545, -4.451267, -0.054559
 H, 1.208008, -3.605471, -0.892314
 H, 0.060004, -4.585645, -1.817621

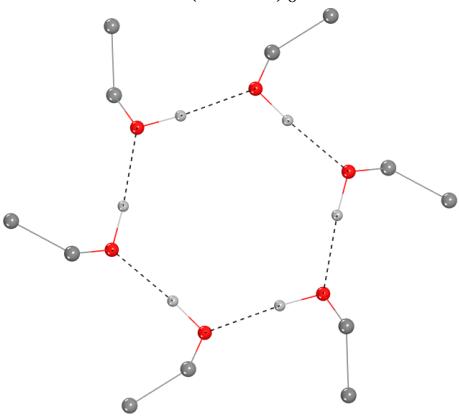
Cyclic-gauche (EtOH)₅



C, 4.401358, 1.007868, -0.114152
 C, 3.399627, 0.136191, 0.626084
 O, 2.258172, -0.138073, -0.181015
 H, 1.756726, 0.701256, -0.305339
 H, 4.723198, 0.512836, -1.031664
 H, 3.947763, 1.964364, -0.384239

H, 5.278234, 1.203661, 0.507929
 H, 3.839179, -0.830564, 0.874902
 H, 3.08813, 0.612719, 1.561848
 H, 1.193523, -1.484972, 0.107741
 O, 0.570391, -2.247434, 0.119786
 C, 0.882143, -3.084682, -0.993748
 C, 2.279649, -3.668994, -0.87107
 H, 0.784914, -2.515694, -1.923362
 H, 0.130457, -3.874887, -0.9986
 H, 2.372935, -4.230539, 0.060047
 H, 3.023368, -2.868974, -0.874307
 H, 2.492386, -4.33766, -1.708686
 H, -1.038704, -1.609933, 0.095811
 O, -1.946719, -1.228278, 0.151944
 C, -2.556067, -1.707948, 1.349378
 C, -2.726094, -3.217927, 1.313997
 H, -3.523996, -1.210088, 1.419133
 H, -1.957748, -1.409246, 2.215765
 H, -1.750947, -3.705059, 1.243541
 H, -3.325184, -3.508727, 0.449356
 H, -3.221896, -3.57183, 2.221198
 H, -1.844972, 0.488386, -0.056961
 O, -1.782031, 1.452943, -0.252725
 C, -2.628858, 1.740226, -1.364342
 C, -4.083193, 1.43707, -1.043042
 H, -2.301715, 1.168108, -2.237973
 H, -2.493045, 2.799998, -1.583431
 H, -4.403846, 2.010733, -0.171695
 H, -4.207322, 0.373577, -0.826899
 H, -4.726239, 1.692336, -1.888833
 H, -0.112787, 1.925273, -0.372886
 O, 0.83342, 2.192849, -0.301053
 C, 0.953994, 3.030061, 0.847591
 C, 0.137327, 4.302747, 0.692941
 H, 2.015136, 3.264226, 0.945815
 H, 0.641276, 2.481645, 1.742528
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 H, 0.453892, 4.845252, -0.199444
 H, 0.265048, 4.950921, 1.563416

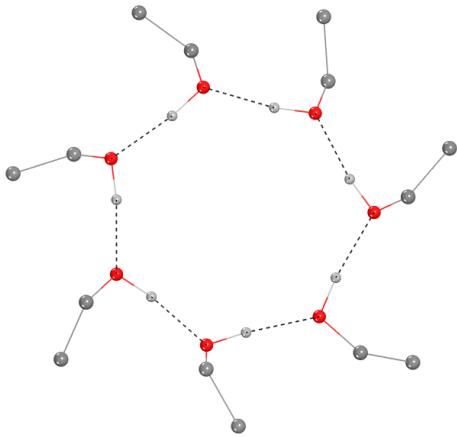
Cyclic-gauche (EtOH)₆



C, 4.75218, 0.223851, -0.968231
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 O, 2.568664, 0.84633, -0.093099
 H, 2.320457, -0.099122, 0.034463
 H, 5.241396, 0.650261, -0.090605
 H, 4.581627, -0.840335, -0.791981
 H, 5.419052, 0.327526, -1.827778
 H, 3.589708, 1.993421, -1.410259
 H, 2.933314, 0.504581, -2.102909
 H, 1.245383, 1.959063, -0.034422
 O, 0.550926, 2.646757, 0.094306
 C, 0.910883, 3.434645, 1.22769
 C, 2.182036, 4.226891, 0.969003
 H, 1.0318, 2.790284, 2.103695
 H, 0.068952, 4.103118, 1.413267
 H, 2.055583, 4.865198, 0.092665
 H, 3.018546, 3.547995, 0.790263
 H, 2.426656, 4.854916, 1.829256
 H, -1.074899, 2.058116, 0.036149
 O, -2.017981, 1.80126, -0.092073
 C, -2.519855, 2.506429, -1.225993
 C, -2.569087, 4.003541, -0.968101
 H, -3.520035, 2.112167, -1.411394
 H, -1.901554, 2.287955, -2.101898
 H, -1.56246, 4.387587, -0.789704
 H, -3.184751, 4.214115, -0.091731
 H, -2.990338, 4.529399, -1.828476
 H, -2.320518, 0.098944, -0.034518
 O, -2.5689, -0.846493, 0.092854
 C, -3.431645, -0.930071, 1.225733
 C, -4.752353, -0.223331, 0.967668
 H, -2.933939, -0.505387, 2.102743
 H, -3.590872, -1.993633, 1.409333
 H, -5.241526, -0.64917, 0.089741
 H, -4.581237, 0.84084, 0.791878
 H, -5.419509, -0.327031, 1.826988

H, -1.245441, -1.959033, 0.034614
 O, -0.550883, -2.646658, -0.093962
 C, -0.910431, -3.434519, -1.22751
 C, -2.18156, -4.226936, -0.969206
 H, -0.068365, -4.102876, -1.412909
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 H, -3.018212, -3.548159, -0.790662
 H, -2.055268, -4.865269, -0.092862
 H, -2.42586, -4.854952, -1.829554
 H, 1.075011, -2.058197, -0.035832
 O, 2.018155, -1.801457, 0.092168
 C, 2.520068, -2.506455, 1.226182
 C, 2.56872, -4.003664, 0.968765
 H, 1.902065, -2.28749, 2.102175
 H, 3.520434, -2.112491, 1.411205
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 H, 2.990039, -4.529372, 1.8292

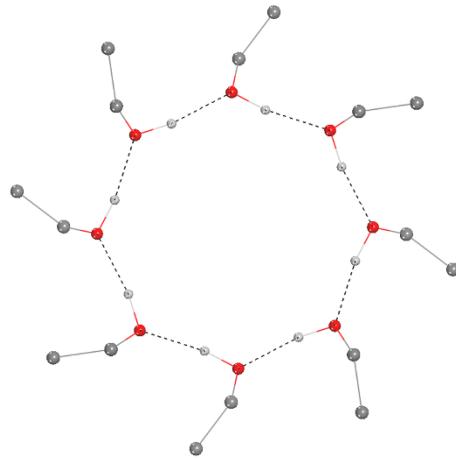
Cyclic-gauche (EtOH)₇



C, 4.148064, -3.401535, -0.074814
 C, 2.929436, -3.18327, 0.808227
 O, 1.968427, -2.349391, 0.170175
 H, 2.347719, -1.445674, 0.080418
 H, 3.85165, -3.869421, -1.015487
 H, 4.625657, -2.446888, -0.306395
 H, 4.877018, -4.045536, 0.42357
 H, 2.425946, -4.129111, 1.014051
 H, 3.219792, -2.745843, 1.76932
 H, 0.268215, -2.727308, 0.105224
 O, -0.646869, -3.025361, -0.094642
 C, -0.653299, -3.584085, -1.407591
 C, 0.102106, -4.902089, -1.453514
 H, -0.222471, -2.869811, -2.115187
 H, -1.702318, -3.731026, -1.66954
 H, -0.325574, -5.606437, -0.737647

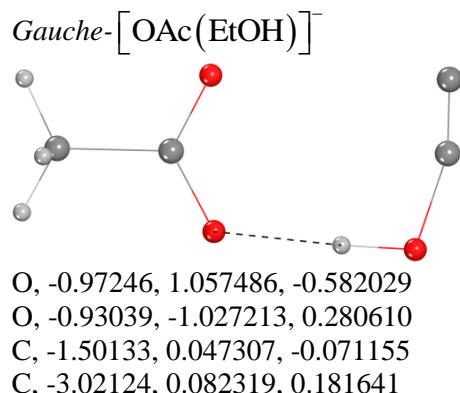
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 H, -1.936123, -1.909186, 0.193492
 O, -2.748732, -1.390501, 0.396378
 C, -3.451036, -2.045707, 1.449478
 C, -4.028947, -3.372958, 0.985292
 H, -4.245222, -1.363719, 1.757313
 H, -2.783219, -2.194392, 2.303136
 H, -3.225289, -4.046431, 0.67994
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 O, -2.888727, 1.292064, 0.051952
 C, -3.756238, 1.388188, -1.076135
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 H, -3.352859, 0.798384, -1.904611
 H, -3.75215, 2.437789, -1.374273
 H, -5.558036, 1.517845, 0.099595
 H, -5.158713, -0.122664, -0.446747
 H, -5.829034, 1.050895, -1.592185
 H, -1.475141, 2.290926, 0.003879
 O, -0.755925, 2.960769, 0.069804
 C, -1.040432, 3.809807, 1.179686
 C, -2.255886, 4.68212, 0.910761
 H, -0.150087, 4.4222, 1.331306
 H, -1.192738, 3.205055, 2.078513
 H, -3.140695, 4.058826, 0.765316
 H, -2.097761, 5.280725, 0.011572
 H, -2.442509, 5.354345, 1.752026
 H, 0.896618, 2.493032, -0.162631
 O, 1.849715, 2.371748, -0.378356
 C, 2.14376, 3.115481, -1.558661
 C, 2.033711, 4.611736, -1.313622
 H, 1.473343, 2.808308, -2.366787
 H, 3.16176, 2.843893, -1.842754
 H, 2.702043, 4.91075, -0.503648
 H, 1.009994, 4.873355, -1.037851
 H, 2.301594, 5.17055, -2.213834
 H, 2.658074, 0.844824, -0.168417
 O, 3.228675, 0.07531, 0.058279
 C, 4.017032, 0.44168, 1.188834
 C, 4.974998, 1.573981, 0.85484
 H, 4.57019, -0.453084, 1.479466
 H, 3.364985, 0.723312, 2.021549
 H, 4.414849, 2.467406, 0.57213
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 H, 5.600113, 1.816527, 1.717902

Cyclic-gauche (EtOH)₈

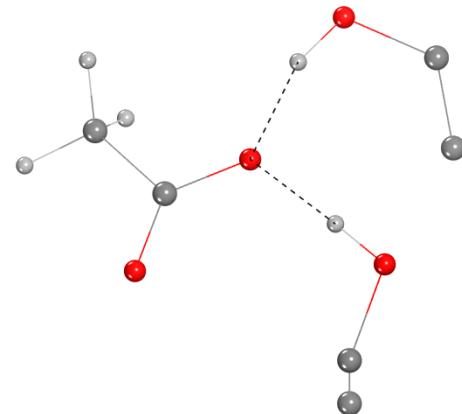


C, -5.538042, 0.990179, -0.976384
 C, -4.353735, 0.09626, -1.30684
 O, -3.506187, -0.083395, -0.174585
 H, -3.057854, 0.771985, 0.014301
 H, -6.105474, 0.57059, -0.143266
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 H, -4.690497, -0.900654, -1.596124
 H, -3.777417, 0.5136, -2.137708
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 O, -2.41884, -2.536718, 0.183635
 C, -3.151686, -3.016233, 1.308571
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 H, -3.049137, -2.31589, 2.142621
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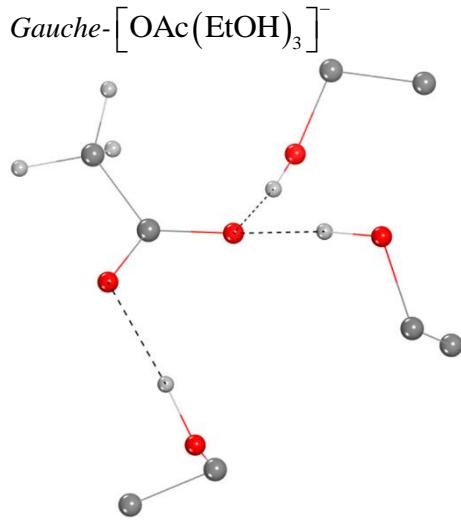
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 H, 1.525691, 0.407987, -1.277212
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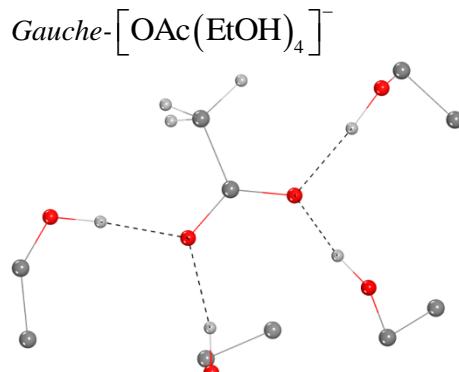
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 C, -2.0024, -1.71641, 0.974304
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 H, -2.67896, -1.471964, 1.797732

H, -1.85462, -2.800722, 0.941021
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H, -3.247944, -1.596968, 1.150215
H, -3.36208, -0.620386, 2.631272
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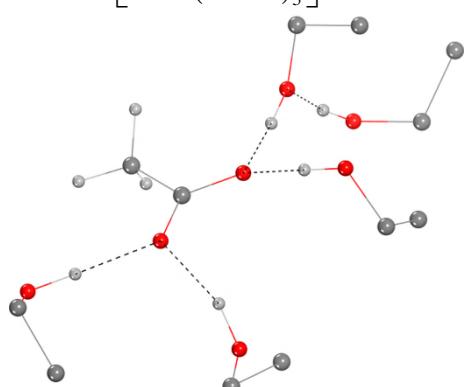
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H, 1.163015, -2.976823, -1.456099
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C, 3.718519, 0.68518, 0.187901
H, 2.852016, 1.105473, -0.326382
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O, 3.227696, -1.689049, 1.202898
C, 3.895133, -2.118415, 0.032301
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C, 4.586555, -0.968681, -0.690751
H, 3.855452, -0.232962, -1.03164
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H, 2.416759, -1.217557, 0.909116
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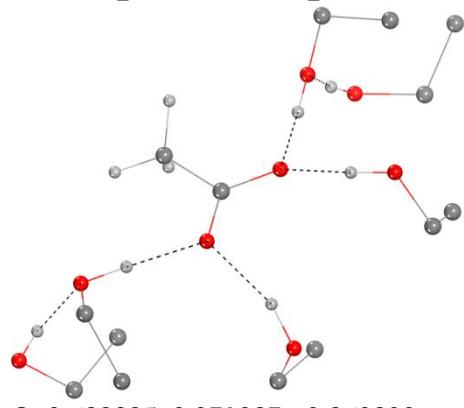
Gauche-[OAc(EtOH)₅]⁻



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 C, 0.152241, -2.42488, -0.419281
 H, 0.351468, -2.8226, -1.418426
 H, 0.829362, -2.90754, 0.284754
 H, -0.886537, -2.64541, -0.173208
 O, 3.080216, 1.4883, -1.382507
 C, 2.967192, 2.555263, -0.455034
 H, 3.474542, 3.411368, -0.906915
 H, 1.915806, 2.823066, -0.312018
 C, 3.612516, 2.207909, 0.882084
 H, 3.529995, 3.042819, 1.585886
 H, 3.121524, 1.335703, 1.319193
 H, 4.669337, 1.968541, 0.740473
 O, 3.366147, -2.18757, 1.061871
 C, 4.170904, -2.52642, -0.051072
 H, 4.709021, -3.43868, 0.219375
 H, 3.540007, -2.75604, -0.919542
 C, 5.154798, -1.41868, -0.40778
 H, 4.62347, -0.51028, -0.698705
 H, 5.782495, -1.19064, 0.457285
 H, 5.798596, -1.72361, -1.239547
 H, 2.708938, -1.53135, 0.744244

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 C, -3.845646, 1.178349, -1.779283
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 C, -4.125105, -0.65139, 1.807467
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 C, -2.708026, -0.99832, 2.24751
 H, -2.670832, -2.02874, 2.607908
 H, -2.009218, -0.89475, 1.414601
 H, -2.37423, -0.33146, 3.04834

Gauche-[OAc(EtOH)₆]⁻

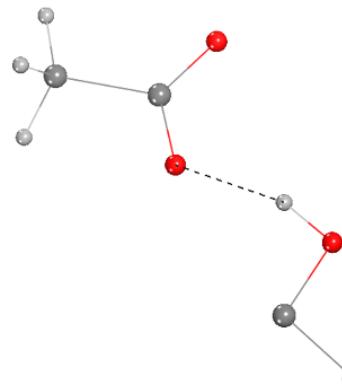


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 H, 0.219687, -1.767473, -2.422699
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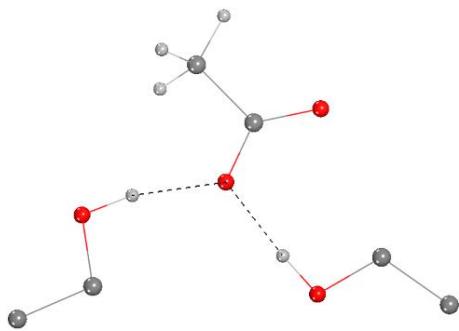
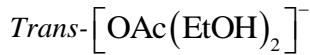
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 C, 3.580551, -0.761104, -2.137352
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 C, 5.0867, -1.333619, 1.504905
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C, 6.405086, -1.339918, 0.738718
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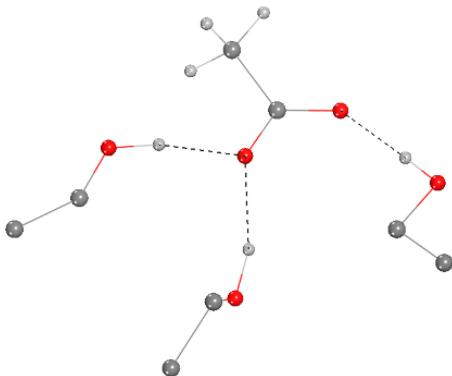
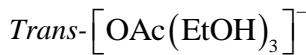
Trans-[OAc(EtOH)]⁻



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 H, -3.007858, -1.564556, 0.895113
 C, 2.250327, -0.436449, -0.019605
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 H, 4.308765, -1.131445, -0.057932
 H, 4.030226, 0.42612, -0.871663
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 H, 0.61978, 0.600571, 0.037298

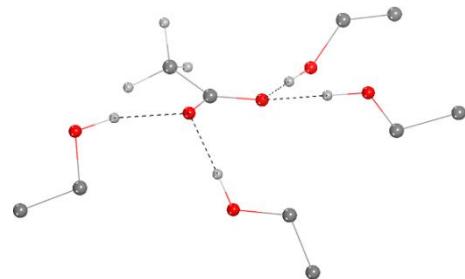


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 H, -1.12057, 3.005639, 0.906324
 H, 0.049742, 4.037731, 0.033011
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 C, 2.639391, -1.138793, 0.468487
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 C, 3.824059, -1.846308, -0.173333
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 C, -3.181539, 0.442764, -0.157227
 H, -3.523182, 1.321504, -0.723258
 H, -2.517622, -0.133849, -0.809119
 C, -4.381653, -0.398223, 0.247488
 H, -4.045858, -1.291711, 0.778798
 H, -5.029917, 0.172417, 0.916914
 H, -4.960676, -0.704516, -0.628674
 H, -1.554597, 1.00471, 0.758901
 H, 0.001656, -0.474549, -0.855714
 O, 3.714235, 0.350193, -0.103288
 C, 2.968707, -0.806944, 0.222974
 H, 2.229347, -0.580597, 0.999428
 H, 2.417257, -1.174677, -0.649673
 C, 3.93692, -1.871066, 0.711256
 H, 4.474899, -1.51347, 1.592433
 H, 3.405997, -2.792083, 0.969347
 H, 4.669891, -2.094639, -0.067629
 H, 3.069319, 1.059481, -0.323518

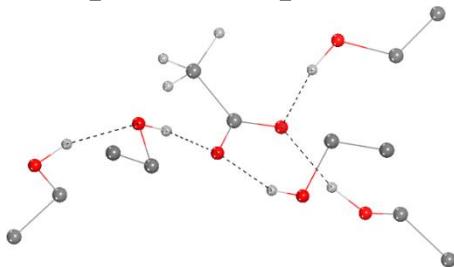
Trans-[OAc(EtOH)₄]⁻



O, -0.551992, -0.709413, 0.027397
O, 1.584526, -0.649741, 0.68994
C, 0.575837, -1.241358, 0.223522
C, 0.725008, -2.725001, -0.097019
H, 0.617867, -3.285599, 0.835571
H, -0.046279, -3.055802, -0.791878
H, 1.719531, -2.927491, -0.49577
O, -2.224028, 1.145955, 1.180779
C, -2.850448, 1.586245, -0.009277
H, -2.286134, 2.416325, -0.455848
H, -2.887998, 0.775729, -0.744724
C, -4.255574, 2.04953, 0.336453
H, -4.772383, 2.426791, -0.550399
H, -4.830234, 1.219025, 0.752794
H, -4.212837, 2.844074, 1.084923
O, 4.160011, -1.56521, 0.482314
H, 3.212197, -1.369159, 0.652247
C, 4.718604, -0.388676, -0.073835
H, 4.189071, -0.106869, -0.991063
H, 4.622783, 0.45148, 0.623198
C, 6.182878, -0.656385, -0.374057
H, 6.274524, -1.486725, -1.07791
H, 6.66044, 0.22742, -0.805598
H, 6.708381, -0.929011, 0.543917
O, -2.763778, -1.882146, -1.05674
C, -3.600311, -1.958277, 0.083109
H, -3.419378, -2.8947, 0.628796
H, -3.389773, -1.129544, 0.766399
C, -5.047684, -1.906792, -0.377312
H, -5.240411, -0.962241, -0.891035
H, -5.247253, -2.721982, -1.076803
H, -5.73264, -1.993928, 0.470985
H, -1.898696, -1.517362, -0.761218
H, -1.472786, 0.571427, 0.92239
O, 2.006624, 2.046847, 0.118967
C, 0.731812, 2.565148, -0.215613
H, 0.24565, 1.929644, -0.964459
H, 0.079079, 2.587919, 0.664134
C, 0.921981, 3.969703, -0.760734
H, 1.559955, 3.945186, -1.647109

H, -0.039744, 4.4165, -1.02851
H, 1.405123, 4.599372, -0.010096
H, 1.87842, 1.114366, 0.394402

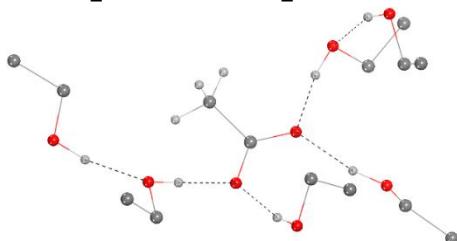
Trans-[OAc(EtOH)₅]⁻



O, -0.859244, -0.196475, 0.077606
O, 1.165004, -1.145316, 0.12398
C, -0.037134, -1.102472, -0.241781
C, -0.545023, -2.244076, -1.114531
H, -0.796714, -3.084148, -0.461846
H, -1.43812, -1.953253, -1.667461
H, 0.238006, -2.574133, -1.797815
O, 0.113501, 2.366841, 0.318983
C, 0.847978, 2.308403, -0.890318
H, 1.517826, 1.441584, -0.886169
H, 0.168661, 2.197464, -1.746383
C, 1.646614, 3.592784, -1.023685
H, 2.214772, 3.603984, -1.957686
H, 0.975185, 4.45433, -1.008431
H, 2.34254, 3.688011, -0.187027
O, -4.98909, -1.167704, 0.089888
H, -4.423277, -0.667311, -0.533417
C, -4.139355, -1.639997, 1.123192
H, -3.464972, -2.416216, 0.741144
H, -3.512992, -0.827763, 1.507306
C, -5.009495, -2.207341, 2.22949
H, -5.632194, -3.014681, 1.837951
H, -4.395534, -2.598255, 3.04462
H, -5.6668, -1.429476, 2.623499
O, -3.112917, 0.393781, -1.225815
C, -3.374288, 1.699924, -0.72319
H, -3.561921, 1.654638, 0.356226
H, -2.501744, 2.340081, -0.880916
C, -4.591584, 2.250486, -1.442457
H, -4.404599, 2.290345, -2.517551
H, -5.455614, 1.606343, -1.264626
H, -4.826644, 3.256962, -1.087042
H, -2.273847, 0.082348, -0.797494
H, -0.251119, 1.467556, 0.461853
O, 2.844112, -0.161979, 2.129935

C, 3.119363, 1.159467, 1.702619
H, 3.609099, 1.150219, 0.7182
H, 2.194317, 1.73542, 1.607996
C, 4.041205, 1.802453, 2.723764
H, 4.963278, 1.223651, 2.815066
H, 4.293336, 2.825421, 2.430728
H, 3.55425, 1.825886, 3.70078
H, 2.167841, -0.531504, 1.527452
O, 3.173651, -2.495309, -1.17858
H, 2.380853, -2.154035, -0.7117
C, 4.191814, -1.527103, -1.005786
H, 3.9082, -0.582711, -1.489314
H, 4.346504, -1.319581, 0.058496
C, 5.467234, -2.06419, -1.630772
H, 5.306419, -2.270223, -2.691328
H, 6.284514, -1.344802, -1.530345
H, 5.756385, -2.996889, -1.142026

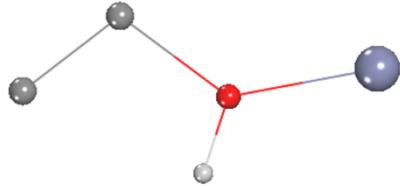
Trans- $\left[\text{OAc}(\text{EtOH})_6 \right]^-$



O, 1.007633, 0.412457, -1.35905
O, -0.857795, -0.713315, -0.863506
C, 0.392549, -0.628451, -0.995071
C, 1.238188, -1.848517, -0.656443
H, 2.023721, -1.978275, -1.402323
H, 1.725719, -1.669769, 0.305517
H, 0.626932, -2.747033, -0.584946
O, 0.126616, 2.844015, -0.419147
C, -0.173275, 2.379262, 0.88513
H, -0.852754, 1.521654, 0.837435
H, 0.742138, 2.045754, 1.393238
C, -0.813939, 3.515705, 1.660714
H, -1.042738, 3.207948, 2.684179
H, -0.140459, 4.375224, 1.690652
H, -1.740397, 3.824626, 1.170994
O, 5.708127, -1.113369, -0.697087
H, 4.977801, -0.482012, -0.857615
C, 5.462486, -1.723818, 0.554913
H, 5.35795, -0.963722, 1.338639
H, 4.528573, -2.298387, 0.527599
C, 6.628065, -2.64374, 0.870332

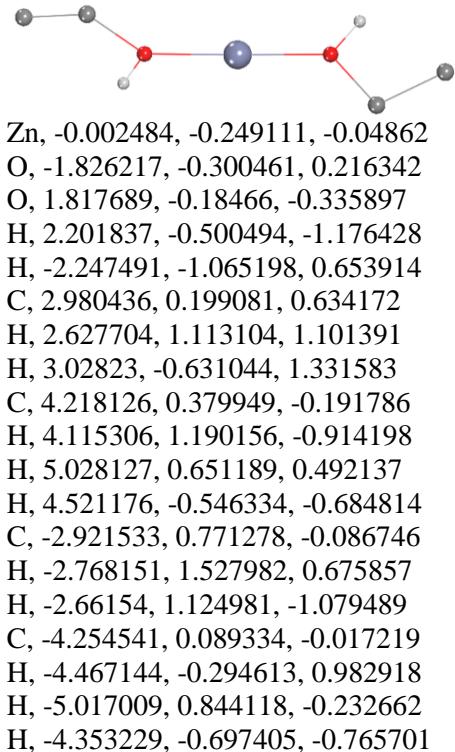
H, 7.556112, -2.069726, 0.91061
H, 6.480603, -3.146205, 1.829778
H, 6.72798, -3.399255, 0.088514
O, 3.576809, 0.643153, -0.670224
C, 3.758963, 2.037507, -0.461569
H, 4.106051, 2.510004, -1.38783
H, 2.804792, 2.496556, -0.1895
C, 4.786654, 2.231899, 0.639876
H, 4.421274, 1.796604, 1.572443
H, 5.722897, 1.73579, 0.372772
H, 4.985752, 3.294604, 0.801331
H, 2.656861, 0.488787, -1.005961
H, 0.378485, 2.055561, -0.944685
O, -3.107801, 0.689863, -1.740836
C, -3.185831, 1.955781, -1.109003
H, -3.353198, 1.835815, -0.029562
H, -2.253577, 2.512627, -1.238947
C, -4.349666, 2.716092, -1.719428
H, -5.275495, 2.150858, -1.589948
H, -4.464865, 3.694985, -1.246171
H, -4.182034, 2.858287, -2.788895
H, -2.256095, 0.271243, -1.500862
O, -2.315286, -2.850506, -0.08439
H, -1.684683, -2.135061, -0.341828
C, -3.413379, -2.794194, -0.992142
H, -3.750313, -1.760523, -1.109453
H, -3.09594, -3.158126, -1.975835
C, -4.52861, -3.66615, -0.444201
H, -4.859634, -3.290512, 0.526456
H, -5.381619, -3.672429, -1.127571
H, -4.174766, -4.69133, -0.313529
O, -3.189765, -1.743094, 2.3362
H, -2.864918, -2.309481, 1.609012
C, -3.328783, -0.435057, 1.80014
H, -2.500429, -0.214731, 1.120822
H, -4.258079, -0.354686, 1.220229
C, -3.345826, 0.555828, 2.949907
H, -2.404379, 0.502898, 3.500879
H, -3.480909, 1.576188, 2.581303
H, -4.160236, 0.318725, 3.638447

Gauche- $\left[\text{Zn}(\text{EtOH})\right]^{2+}$



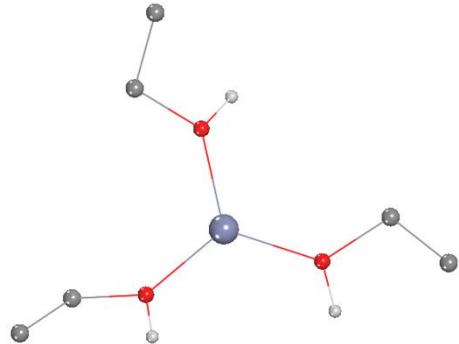
Zn, 1.443589, 0.012616, 0.013369
 O, -0.359069, -0.325028, -0.053052
 H, -0.664901, -1.25095, -0.158835
 C, -1.672298, 0.648143, -0.03387
 H, -1.487787, 1.249974, 0.849285
 H, -1.564234, 1.189919, -0.967098
 C, -2.851657, -0.256668, 0.04934
 H, -2.881234, -0.833392, 0.974497
 H, -3.728137, 0.408069, 0.064553
 H, -2.965088, -0.890732, -0.831874

Gauche- $\left[\text{Zn}(\text{EtOH})_2\right]^{2+}$



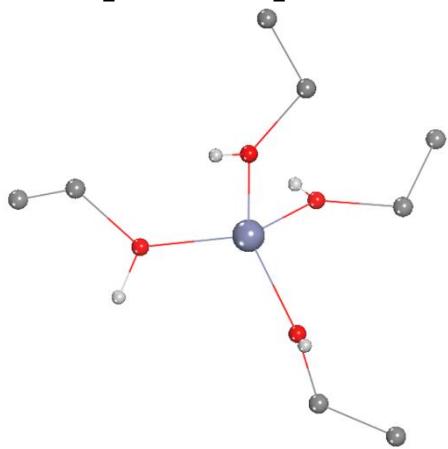
Zn, -0.002484, -0.249111, -0.04862
 O, -1.826217, -0.300461, 0.216342
 O, 1.817689, -0.18466, -0.335897
 H, 2.201837, -0.500494, -1.176428
 H, -2.247491, -1.065198, 0.653914
 C, 2.980436, 0.199081, 0.634172
 H, 2.627704, 1.113104, 1.101391
 H, 3.02823, -0.631044, 1.331583
 C, 4.218126, 0.379949, -0.191786
 H, 4.115306, 1.190156, -0.914198
 H, 5.028127, 0.651189, 0.492137
 H, 4.521176, -0.546334, -0.684814
 C, -2.921533, 0.771278, -0.086746
 H, -2.768151, 1.527982, 0.675857
 H, -2.66154, 1.124981, -1.079489
 C, -4.254541, 0.089334, -0.017219
 H, -4.467144, -0.294613, 0.982918
 H, -5.017009, 0.844118, -0.232662
 H, -4.353229, -0.697405, -0.765701

Gauche- $\left[\text{Zn}(\text{EtOH})_3\right]^{2+}$



Zn, 0.177541, -0.240635, -0.17535
 O, -0.237834, 1.616993, -0.408872
 O, 1.999316, -0.833018, -0.211315
 H, 2.236328, -1.753875, -0.415965
 O, -1.264964, -1.451133, 0.19674
 H, -1.145643, -2.228948, 0.768539
 H, 0.320342, 2.212895, -0.93711
 C, 3.266527, -0.013456, -0.085888
 H, 2.97926, 0.823532, 0.545199
 H, 3.503201, 0.319143, -1.093035
 C, 4.344537, -0.864432, 0.528872
 H, 4.59638, -1.716335, -0.107145
 H, 5.248884, -0.258879, 0.621095
 H, 4.066879, -1.209604, 1.52475
 C, -2.632252, -1.51764, -0.449145
 H, -2.875357, -0.479753, -0.661686
 H, -2.498797, -2.077891, -1.370556
 C, -3.5974, -2.163544, 0.507655
 H, -3.685765, -1.599331, 1.436255
 H, -4.581517, -2.19406, 0.034828
 H, -3.317698, -3.197215, 0.724267
 C, -1.472649, 2.364834, 0.041615
 H, -2.161857, 2.329052, -0.79819
 H, -1.846788, 1.777135, 0.876303
 C, -1.089304, 3.765185, 0.437277
 H, -0.687863, 4.326835, -0.409408
 H, -1.989952, 4.287805, 0.767064
 H, -0.375171, 3.770134, 1.260546

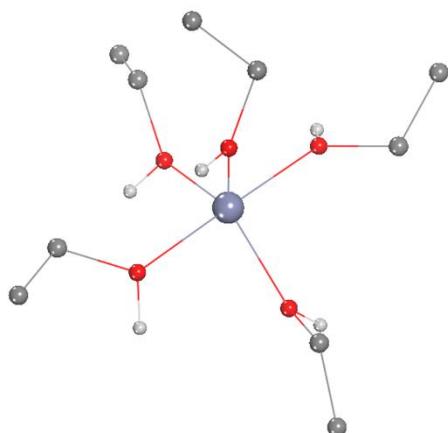
Gauche- $\left[\text{Zn}(\text{EtOH})_5\right]^{2+}$



Zn, 0.092667, -0.299741, -0.224804
 O, 1.411133, -1.681757, 0.269026
 O, -0.634159, 0.518814, 1.422594
 O, -1.496775, -0.976611, -1.182891
 H, -1.624774, -0.849768, -2.136416
 O, 1.029043, 1.102423, -1.251217
 H, -0.264383, 0.328084, 2.299385
 H, 1.549465, 0.920562, -2.049716
 H, 1.18429, -2.624673, 0.304048
 C, 2.894236, -1.52934, 0.327384
 H, 3.047789, -0.491598, 0.61297
 H, 3.267026, -1.700165, -0.6803
 C, -2.558503, -1.874825, -0.651551
 H, -2.301377, -2.885317, -0.961669
 H, -2.46875, -1.785909, 0.429064
 C, 0.901902, 2.576283, -1.066011
 H, 0.064085, 2.898005, -1.68091
 H, 0.663653, 2.693966, -0.011668
 C, -1.904375, 1.27887, 1.56214
 H, -2.683943, 0.55471, 1.790644
 H, -2.074892, 1.705357, 0.575888
 C, -1.761508, 2.331995, 2.632357
 H, -2.696934, 2.889049, 2.709357
 H, -1.572438, 1.883921, 3.610554
 H, -0.963872, 3.037009, 2.396404
 C, 2.195513, 3.252527, -1.443847
 H, 2.431973, 3.101991, -2.499877
 H, 2.090599, 4.328035, -1.289886
 H, 3.023985, 2.900572, -0.828719
 C, -3.908823, -1.434389, -1.157777
 H, -3.971816, -1.511232, -2.245554
 H, -4.674422, -2.093703, -0.744601
 H, -4.135979, -0.412088, -0.853729
 C, 3.467708, -2.497379, 1.33087
 H, 4.550265, -2.363324, 1.370936

H, 3.066037, -2.323144, 2.329117
 H, 3.28359, -3.533503, 1.037303

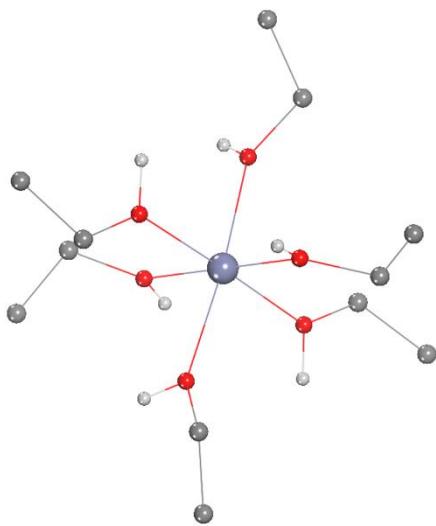
Gauche- $\left[\text{Zn}(\text{EtOH})_5\right]^{2+}$



Zn, -0.169595, -0.071798, -0.346718
 O, 0.111048, 0.122564, 1.640176
 O, -1.5768, -1.466513, -0.851371
 O, 1.396929, -1.391525, -0.552082
 O, 0.929815, 1.190525, -1.515671
 O, -1.767829, 1.238942, -0.205944
 H, -0.614069, 0.502844, 2.159185
 H, 1.997945, -1.301746, -1.307569
 C, -2.492077, -2.108823, 0.114788
 C, 1.292342, -0.082072, 2.498878
 C, 1.473376, -2.753046, -0.004301
 C, 2.116642, 1.928369, -1.038801
 C, -1.717025, 2.691048, 0.015324
 H, 0.930143, -3.416402, -0.676946
 H, 2.620346, 1.230055, -0.372808
 H, -0.854943, 2.839058, 0.663771
 H, 2.069155, -0.411031, 1.813667
 H, 0.946988, -2.694124, 0.946684
 H, -1.530861, 3.170745, -0.945324
 C, 2.913356, -3.177109, 0.166718
 H, 2.947353, -4.180798, 0.593356
 H, 3.432582, -3.215305, -0.793673
 H, 3.448772, -2.502832, 0.836138
 C, -2.998217, 3.17797, 0.651345
 H, -2.930061, 4.252717, 0.827095
 H, -3.855297, 3.010191, -0.004712
 H, -3.17851, 2.685678, 1.607573
 C, -3.675965, -2.710237, -0.603845
 H, -3.365914, -3.503844, -1.287707
 H, -4.35027, -3.158947, 0.127461

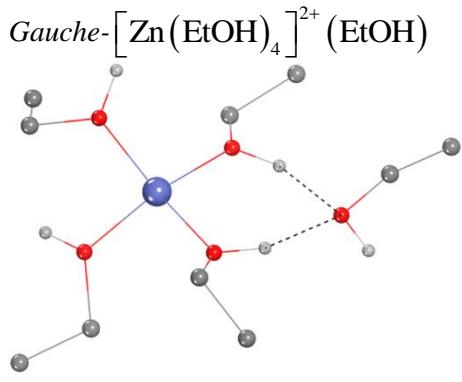
C, 2.98644, 2.336521, -2.203587
 H, 2.461556, 3.023896, -2.871021
 H, 3.867815, 2.859577, -1.828783
 C, 1.656124, 1.197768, 3.213473
 H, 2.54029, 1.028357, 3.830417
 H, 1.881836, 1.996914, 2.505585
 H, 0.854738, 1.524689, 3.879796
 H, 1.051439, -0.889192, 3.188649
 H, 3.320033, 1.469067, -2.773682
 H, -4.22973, -1.953824, -1.160661
 H, 0.537105, 1.664173, -2.264829
 H, -1.91965, -2.854323, 0.665423
 H, -2.783938, -1.30596, 0.788957
 H, 1.763401, 2.785487, -0.466271
 H, -1.448854, -2.057246, -1.609379
 H, -2.59683, 1.001784, -0.649684

Gauche- $\left[\text{Zn}(\text{EtOH})_6\right]^{2+}$



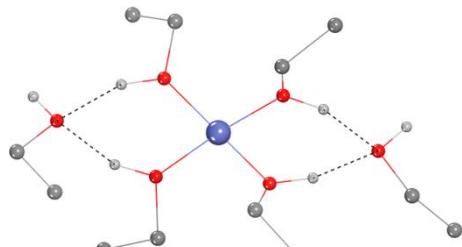
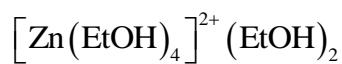
Zn, -0.035659, -0.000705, -0.088965
 O, 1.316722, 0.176621, 1.532513
 O, -1.503832, 0.950857, 1.142772
 O, -0.680352, -1.980762, 0.440162
 O, -1.419104, -0.181808, -1.763353
 O, 1.38873, -0.992593, -1.339604
 O, 0.405775, 1.957109, -0.837808
 C, 1.365045, 2.992134, -0.505701
 H, 2.210544, 2.890685, -1.172607
 H, 1.685206, 2.766182, 0.498814
 C, -2.485569, 0.510326, 2.113578
 H, -1.970115, 0.32476, 3.046603
 H, -2.869811, -0.424591, 1.735606
 C, 2.722108, -0.140989, 1.699475

H, 3.194204, 0.141903, 0.771768
 H, 2.807302, -1.211918, 1.8227
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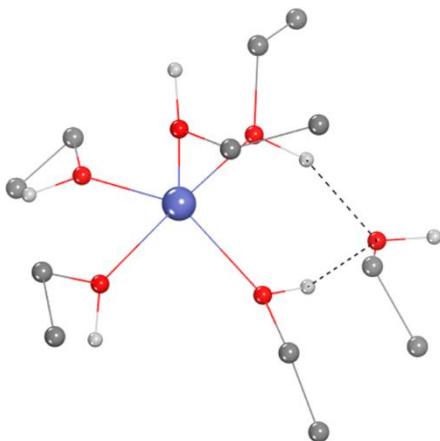
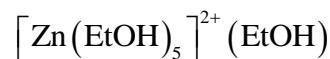
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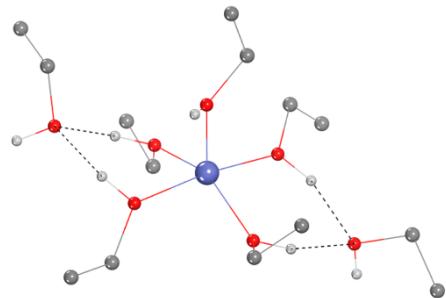
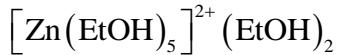
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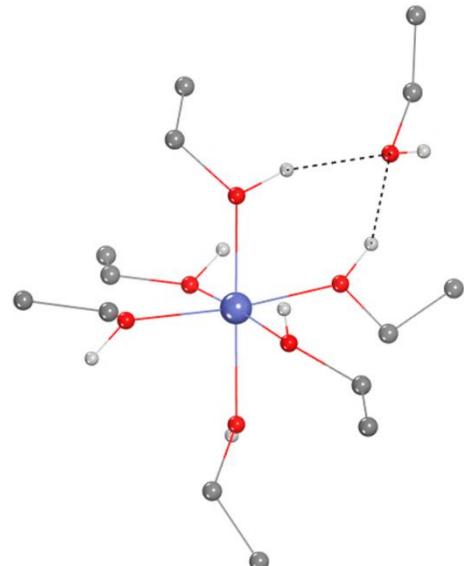
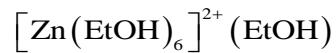
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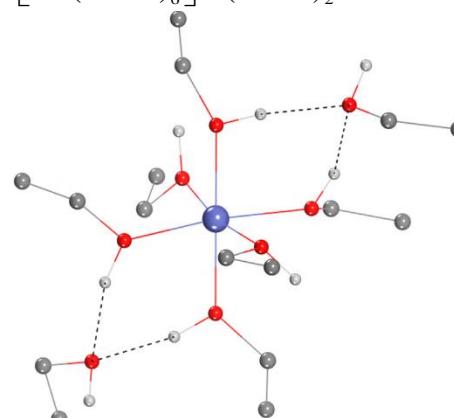
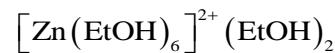
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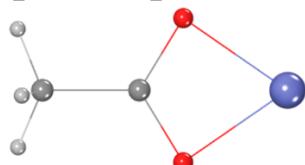
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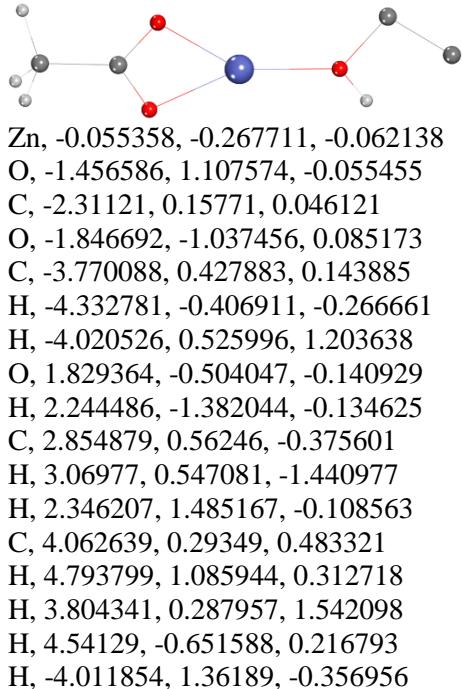
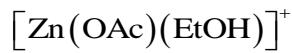


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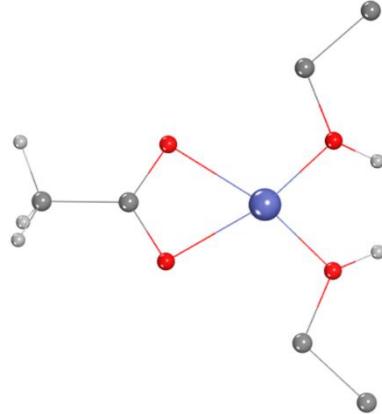
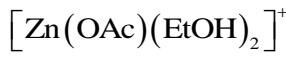
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 H, 3.01233442, -1.49726636, 4.49144704
 C, 4.53378715, -1.8628151, 2.98598168
 H, 5.22632926, -1.09517756, 3.33776133
 H, 4.84968815, -2.81371196, 3.41836838
 H, 4.61175075, -1.93796052, 1.89973736



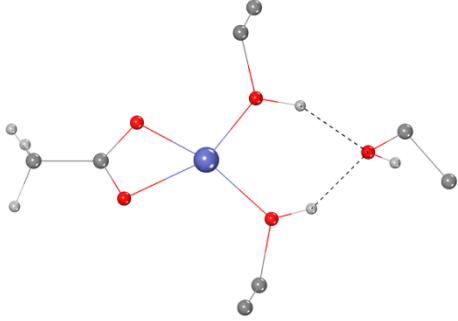
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 O, 0.385158, -1.095572, -0.008578
 C, 2.543451, 0.000508, 0.002649
 H, 2.858331, -0.080373, 1.047162
 H, 2.91601, -0.866801, -0.537477
 H, 2.921034, 0.931992, -0.41019



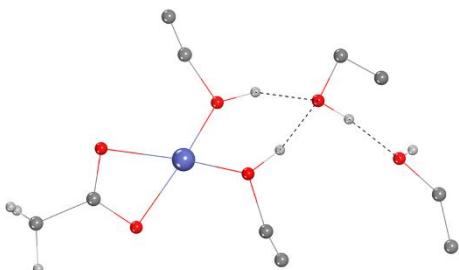
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 O, -1.846692, -1.037456, 0.085173
 C, -3.770088, 0.427883, 0.143885
 H, -4.332781, -0.406911, -0.266661
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 O, 1.829364, -0.504047, -0.140929
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 C, 2.854879, 0.56246, -0.375601
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 C, 4.062639, 0.29349, 0.483321
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 H, 3.804341, 0.287957, 1.542098
 H, 4.54129, -0.651588, 0.216793
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Zn, 0.000786, -0.106177, -0.004303
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 O, 1.553559, -1.276571, 0.359594
 C, 0.000038, 2.233611, 0.009977
 C, -0.022037, 3.725632, 0.001625
 H, 0.900198, 4.110894, -0.42708
 H, -0.852622, 4.047728, -0.631371
 H, -0.18372, 4.105679, 1.007111
 C, 2.934913, -0.759768, 0.229073
 C, 3.862874, -1.874593, -0.187279
 H, 3.552968, -2.306521, -1.138778
 H, 4.871275, -1.473768, -0.303171
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 H, 2.855755, 0.021616, -0.522291
 H, 3.205596, -0.319177, 1.18685
 H, 1.532368, -2.037666, 0.958334
 C, -2.931266, -0.776913, -0.227107
 C, -3.845033, -1.899541, 0.199587
 H, -4.855669, -1.507506, 0.325643
 H, -3.89112, -2.68737, -0.555835
 H, -3.521512, -2.327943, 1.148144
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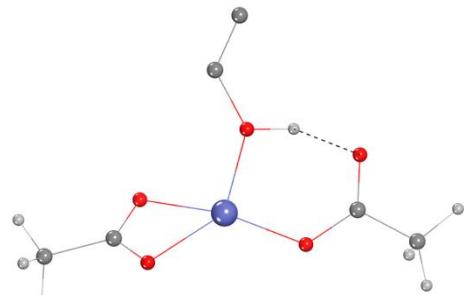
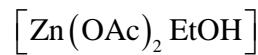
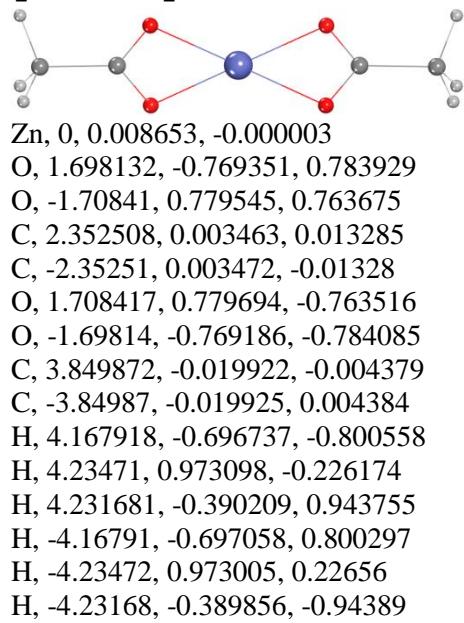
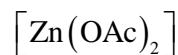


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 O, -0.389118, 1.31245, 1.078098
 O, -0.730387, -1.30962, -0.386283
 C, 2.984146, -0.048372, -0.384407
 C, 4.4491, -0.047815, -0.672821
 H, 4.632331, 0.305248, -1.684738
 H, 4.930592, 0.640531, 0.026087
 H, 4.863067, -1.04086, -0.51593
 C, -0.461353, -2.75176, -0.378638
 C, -0.152078, -3.238286, 1.019112
 H, -0.991278, -3.061429, 1.695277
 H, 0.03888, -4.312834, 0.997062
 H, 0.741541, -2.748682, 1.411854
 H, -1.334847, -3.236338, -0.811424
 H, 0.382419, -2.880195, -1.051854
 H, -1.600203, -1.088492, 0.009835
 C, -0.058224, 2.738506, 0.999682
 C, -0.35122, 3.286826, -0.378667
 H, -0.092, 4.34654, -0.413196
 H, 0.243746, 2.771348, -1.135428
 H, -1.412151, 3.195701, -0.62324
 H, -0.625862, 3.237006, 1.783155
 H, 1.00009, 2.792015, 1.242061
 H, -1.355293, 1.150767, 1.022765
 O, -2.832484, 0.141298, 0.596599
 C, -3.63881, 0.590037, -0.534369
 H, -4.164502, 1.498837, -0.240968
 H, -2.913404, 0.837178, -1.30778
 C, -4.592087, -0.492958, -0.991334
 H, -5.302313, -0.75379, -0.203546
 H, -5.165169, -0.141283, -1.85069
 H, -4.048754, -1.391447, -1.289619
 H, -3.420249, -0.092392, 1.330201



Zn, -1.46913, -0.119147, 0.068341
 O, -2.59695, -1.736211, -0.348986
 O, -3.43687, 0.145494, 0.388625
 O, -0.66248, 1.242935, -1.115573
 O, 0.072969, -0.457416, 1.254462
 C, -3.61962, -1.058509, 0.003351
 C, -4.99317, -1.642065, -0.058699
 H, -5.59991, -1.251907, 0.755634
 H, -5.45073, -1.332516, -1.001359
 H, -4.94435, -2.727443, -0.033048
 C, 0.502752, -1.833348, 1.493759
 C, 0.871962, -2.515941, 0.193451
 H, 1.662614, -1.969161, -0.326677
 H, 1.230623, -3.527305, 0.39541
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 H, 0.834762, 0.107755, 0.964827
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 C, -1.8235, 3.29492, -0.440994
 H, -2.40302, 4.139554, -0.818154
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 C, 4.637056, -0.948209, -0.482324
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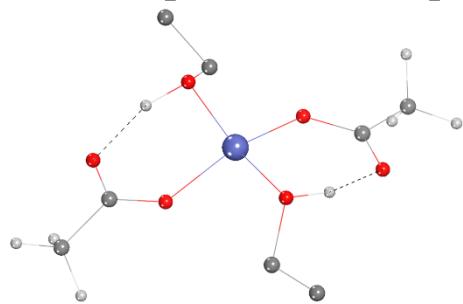
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 H, 5.389246, -1.948749, -2.246201



Zn, 0.265138, -0.425677, -0.160789
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 O, -1.29023, -1.519384, 0.004443
 C, 2.6179, -0.590861, 0.078701
 C, -2.47899, -1.015871, 0.078821
 C, -0.10176, 2.524289, 0.378739
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 H, -0.56442, 3.977333, -1.139868
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 H, 4.326695, -1.788566, 0.400453
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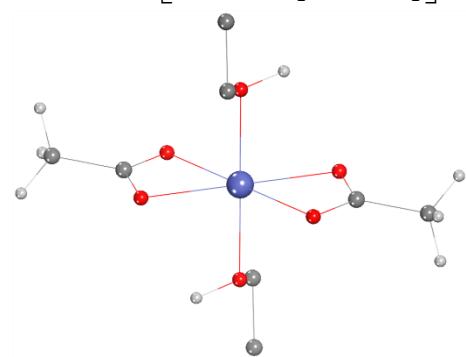
Tetrahedral- $\left[\text{Zn}(\text{OAc})_2(\text{EtOH})_2\right]$



Zn, 0.100597, 0.105693, -0.504698
 O, -1.111194, 1.656312, -0.076725
 O, -2.97703, -0.081581, -0.474208
 O, 0.708869, -0.52034, 1.334125
 O, 1.783598, 0.515282, -1.340252
 O, -1.161125, -1.204674, -1.165593
 C, 2.920839, 0.257796, -0.791002
 C, -2.432508, -1.070614, -1.001177
 C, -1.044025, 2.308673, 1.2075
 H, -0.029566, 2.694782, 1.295219
 H, -1.199166, 1.566471, 1.993097
 C, -2.070172, 3.421861, 1.278575
 H, -2.003454, 3.934067, 2.240842
 H, -1.8984, 4.146333, 0.481729
 H, -3.080106, 3.020428, 1.173128
 H, -1.977036, 1.145967, -0.17721
 C, -3.272552, -2.218616, -1.504913
 H, -3.125183, -2.317236, -2.581543
 H, -2.932928, -3.146351, -1.042684
 H, -4.322554, -2.044997, -1.285003
 O, 3.064413, -0.226561, 0.348148
 C, 4.129491, 0.58838, -1.631004
 H, 5.04214, 0.339236, -1.096254

H, 4.074612, 0.033887, -2.568763
 H, 4.112137, 1.650777, -1.878047
 H, 1.701701, -0.474511, 1.138053
 C, 0.331428, -1.83295, 1.794276
 H, -0.757244, -1.835351, 1.832808
 H, 0.650921, -2.575862, 1.059929
 C, 0.93725, -2.103711, 3.157197
 H, 0.630453, -3.088135, 3.517103
 H, 2.027518, -2.082634, 3.103307
 H, 0.609489, -1.350076, 3.874526

Octahedral- $\left[\text{Zn}(\text{OAc})_2(\text{EtOH})_2\right]$



Zn, 0, 0, 0
 O, 0.384596, -1.775444, -1.053036
 O, 0.309648, 1.832896, -1.034305
 C, 0.099767, -2.43305, 0.000228
 C, -0.099768, 2.433049, -0.000229
 O, -0.309648, -1.832897, 1.034305
 O, -0.384596, 1.775444, 1.053036
 C, 0.282526, -3.927707, 0.013778
 C, -0.282525, 3.927707, -0.013779
 H, 1.316135, -4.138697, 0.297815
 H, -0.376347, -4.383898, 0.749544
 H, 0.111392, -4.339802, -0.978925
 H, -0.111391, 4.339802, 0.978924
 H, 0.376347, 4.383898, -0.749546
 H, -1.316135, 4.138697, -0.297816
 O, 2.049775, 0.068317, 0.640322
 O, -2.049775, -0.068317, -0.640322
 H, 2.114888, 0.839137, 1.222697
 H, -2.114889, -0.839137, -1.222696
 C, 3.016589, 0.172438, -0.430758
 H, 2.80976, 1.075787, -1.006029
 H, 2.816518, -0.692609, -1.0591
 C, -3.016588, -0.172438, 0.430759
 H, -2.80976, -1.075787, 1.00603
 H, -2.816517, 0.69261, 1.059101
 C, 4.429183, 0.15248, 0.119334

H, 4.600043, -0.754907, 0.699869
H, 5.149671, 0.185563, -0.70067
H, 4.614065, 1.017377, 0.761913
C, -4.429183, -0.152479, -0.119332
H, -4.614066, -1.017376, -0.761911
H, -5.149671, -0.185562, 0.700673
H, -4.600043, 0.754908, -0.699867

Optimized geometries of Zinc complexes in solution phase at the M05-2X/6-31+G(d)/SMD level of theory.

Gauche-(EtOH)₂

C, -2.19606, 0.947441, -0.513066
 C, -2.265769, -0.397512, 0.189226
 O, -1.077412, -1.169545, -0.010879
 H, -3.137944, 1.488742, -0.387562
 H, -1.392662, 1.560711, -0.097391
 H, -2.014417, 0.811118, -1.582009
 H, -3.084596, -0.995437, -0.211535
 H, -2.441303, -0.260056, 1.260739
 H, -0.33342, -0.690587, 0.406541
 C, 2.535818, -0.532592, -0.640626
 C, 1.842248, 0.699545, -0.094154
 O, 1.010708, 0.38588, 1.038093
 H, 3.143047, -0.266542, -1.509613
 H, 3.195008, -0.970786, 0.113574
 H, 1.803834, -1.283989, -0.945673
 H, 1.168435, 1.130073, -0.834539
 H, 2.568674, 1.461996, 0.195759
 H, 1.561548, -0.017215, 1.72571

C, 3.383601, -0.421559, -0.483378
 H, 1.881543, -1.972626, -0.514018
 H, 2.898861, -1.9777, 0.930151
 H, 3.897389, 0.211378, 0.244327
 H, 2.876997, 0.221082, -1.208395
 H, 4.13149, -1.014869, -1.016538

Linear-gauche (EtOH)₄

C, -0.275632, -1.883029, -2.080966
 C, -0.629097, -2.483015, -0.734408
 O, -2.015048, -2.269478, -0.403168
 H, -2.565853, -2.656474, -1.100154
 H, -0.87265, -2.344218, -2.872755
 H, -0.460087, -0.806004, -2.087735
 H, 0.77902, -2.057336, -2.305351
 H, -0.420455, -3.555017, -0.717173
 H, -0.065793, -2.00962, 0.070243
 H, -2.182202, -0.491322, -0.18504
 O, -2.106793, 0.476639, -0.040211
 C, -2.589828, 0.78887, 1.275896
 C, -1.830765, 0.033568, 2.351352
 H, -3.659266, 0.568469, 1.327753
 H, -2.457494, 1.864882, 1.392525
 H, -0.76263, 0.258259, 2.297491
 H, -1.968941, -1.044763, 2.239776
 H, -2.194816, 0.323795, 3.34052
 H, -0.402342, 0.982366, -0.1066
 O, 0.517551, 1.331569, -0.118674
 C, 0.626063, 2.282317, -1.187919
 C, -0.286565, 3.474979, -0.970011
 H, 0.398722, 1.790581, -2.138371
 H, 1.671012, 2.592791, -1.20847
 H, -0.051348, 3.970438, -0.025069
 H, -1.333346, 3.161644, -0.949417
 H, -0.16332, 4.197937, -1.780624
 H, 1.75354, 0.041939, -0.415221
 O, 2.53232, -0.540773, -0.541374
 C, 3.412354, -0.322795, 0.564883
 C, 2.826239, -0.847147, 1.863922
 H, 3.638694, 0.744892, 0.651066
 H, 4.339432, -0.844611, 0.325123
 H, 2.621606, -1.917954, 1.786746
 H, 1.892678, -0.330231, 2.101987

H, 3.524989, -0.6866, 2.689672

Linear-gauche (EtOH)₅

C, -2.380791, 2.099187, -1.384359
C, -2.557697, 0.693752, -1.923553
O, -3.541426, -0.047074, -1.176719
H, -4.386842, 0.424285, -1.220163
H, -3.312615, 2.664803, -1.471215
H, -2.081068, 2.07667, -0.334205
H, -1.61021, 2.623018, -1.95558
H, -2.849055, 0.711156, -2.976076
H, -1.635118, 0.121722, -1.83096
H, -2.912572, -0.344197, 0.489529
O, -2.468592, -0.531733, 1.344818
C, -2.079131, -1.914067, 1.364161
C, -1.170176, -2.261129, 0.198993
H, -2.974982, -2.540575, 1.357699
H, -1.56901, -2.064705, 2.31562
H, -0.312464, -1.585496, 0.171223
H, -1.707119, -2.184889, -0.749524
H, -0.802074, -3.285775, 0.301852
H, -1.054426, 0.535352, 1.531046
O, -0.289545, 1.142601, 1.651278
C, 0.420617, 0.774042, 2.843598
C, 1.340608, -0.41165, 2.613634
H, -0.300032, 0.558618, 3.63664
H, 0.9944, 1.652183, 3.140685
H, 2.059349, -0.191883, 1.820024
H, 0.768508, -1.299679, 2.335273
H, 1.896931, -0.637011, 3.527843
H, 0.614381, 0.999508, 0.12517
O, 1.061028, 1.015141, -0.751438
C, 1.611914, 2.326922, -0.937446
C, 2.734625, 2.612247, 0.043904
H, 0.816551, 3.070773, -0.83696
H, 1.978363, 2.357593, -1.963781
H, 3.540431, 1.882889, -0.067431
H, 2.366201, 2.572812, 1.072524
H, 3.14461, 3.610393, -0.132619
H, 2.40799, -0.210549, -0.860827
O, 3.148211, -0.849601, -0.933421
C, 2.606884, -2.171323, -0.862001
C, 1.737599, -2.494892, -2.064644
H, 2.03917, -2.288812, 0.066415
H, 3.461336, -2.847373, -0.817222
H, 2.322027, -2.429464, -2.985737
H, 0.899602, -1.796764, -2.13733
H, 1.333603, -3.507814, -1.981782

Linear-gauche (EtOH)₆

C, -3.673282, -1.471875, -1.360683
C, -3.711965, -1.6401, 0.145022
O, -4.431121, -0.569191, 0.78548
H, -5.33578, -0.550406, 0.438786
H, -4.683771, -1.50165, -1.777439
H, -3.209699, -0.521058, -1.633381
H, -3.095498, -2.282998, -1.811266
H, -4.171491, -2.591651, 0.421555
H, -2.708422, -1.606658, 0.56745
H, -3.56356, 1.000592, 0.585297
O, -3.01658, 1.81233, 0.505343
C, -2.354332, 2.042748, 1.759225
C, -1.535535, 0.840476, 2.193354
H, -3.098536, 2.29929, 2.517845
H, -1.717413, 2.913354, 1.601933
H, -0.8424, 0.544743, 1.403738
H, -2.185143, -0.006818, 2.425807
H, -0.955058, 1.081151, 3.0884
H, -1.825378, 1.603454, -0.795059
O, -1.182481, 1.492129, -1.531994
C, -0.287813, 2.615304, -1.549716
C, 0.849354, 2.451283, -0.557258
H, -0.855628, 3.527146, -1.347412
H, 0.101503, 2.679949, -2.566313
H, 1.415091, 1.542359, -0.77313
H, 0.473443, 2.393599, 0.467177
H, 1.531614, 3.303527, -0.624649
H, -0.483749, -0.096984, -1.170546
O, -0.188536, -1.008431, -0.944542
C, 0.234653, -1.663591, -2.147918
C, 1.575617, -1.142375, -2.632031
H, -0.53071, -1.530375, -2.91729
H, 0.294545, -2.726482, -1.912681
H, 2.344966, -1.290399, -1.869853
H, 1.512479, -0.076658, -2.868136
H, 1.880635, -1.674853, -3.537188
H, 1.042761, -0.803327, 0.317782
O, 1.634305, -0.706449, 1.098397
C, 1.346149, -1.781747, 2.001556
C, 1.779723, -3.12025, 1.431713
H, 0.275532, -1.7861, 2.228034
H, 1.886393, -1.557957, 2.921697
H, 2.853866, -3.121793, 1.230399
H, 1.250438, -3.329653, 0.498033
H, 1.558166, -3.924588, 2.138385
H, 3.36924, -0.676573, 0.601102

O, 4.30253, -0.606165, 0.30666
 C, 4.486755, 0.69767, -0.2515
 C, 4.345399, 1.788618, 0.795833
 H, 3.775476, 0.855625, -1.068796
 H, 5.490747, 0.707185, -0.677239
 H, 5.084372, 1.652376, 1.589441
 H, 3.348209, 1.76937, 1.243185
 H, 4.499484, 2.772512, 0.34401

Linear-gauche (EtOH)₇

H, 5.796198, -1.185187, -1.553721
 O, 4.97093, -0.681452, -1.619698
 C, 3.88172, -1.599784, -1.830865
 C, 3.775187, -2.615975, -0.711304
 H, 2.987783, -0.979293, -1.882502
 H, 4.015723, -2.093528, -2.795998
 H, 3.634473, -2.119733, 0.251554
 H, 4.67959, -3.228688, -0.661169
 H, 2.924148, -3.278197, -0.889975
 H, 4.644697, 0.360469, -0.187543
 O, 4.382546, 0.940435, 0.560439
 C, 3.941671, 2.201456, 0.032045
 C, 2.793915, 2.034323, -0.947187
 H, 4.786466, 2.706716, -0.443569
 H, 3.635191, 2.792904, 0.894925
 H, 1.973515, 1.481657, -0.484849
 H, 3.1217, 1.495133, -1.83925
 H, 2.419009, 3.013455, -1.258208
 H, 3.110056, 0.146574, 1.493374
 O, 2.412225, -0.302541, 2.023515
 C, 1.971239, 0.587641, 3.060542
 C, 0.954028, 1.595619, 2.556539
 H, 2.841167, 1.094816, 3.485934
 H, 1.534253, -0.040033, 3.837724
 H, 0.070998, 1.090034, 2.158482
 H, 1.380404, 2.22329, 1.770421
 H, 0.63601, 2.244205, 3.377774
 H, 1.252768, -0.756918, 0.766849
 O, 0.650553, -1.04395, 0.04226
 C, -0.054028, -2.213514, 0.482031
 C, -0.964768, -1.913879, 1.658807
 H, 0.669248, -2.990855, 0.744009
 H, -0.628621, -2.561803, -0.376601
 H, -1.683802, -1.132329, 1.402243
 H, -0.381045, -1.582025, 2.521738
 H, -1.516505, -2.813128, 1.945956
 H, -0.370123, 0.34891, -0.340477
 O, -0.872244, 1.132445, -0.663046

C, -0.815925, 1.122673, -2.096861
 C, -1.664076, 0.010138, -2.685526
 H, 0.22638, 1.020993, -2.412737
 H, -1.173832, 2.098777, -2.424273
 H, -2.708956, 0.119782, -2.385072
 H, -1.30351, -0.966074, -2.350159
 H, -1.614017, 0.035772, -3.777619
 H, -2.482899, 1.048452, 0.081496
 O, -3.352704, 1.035473, 0.542579
 C, -3.899651, 2.361518, 0.510494
 C, -4.218159, 2.806842, -0.905315
 H, -3.195901, 3.052139, 0.983437
 H, -4.80402, 2.328504, 1.118236
 H, -4.928643, 2.121367, -1.374029
 H, -3.310381, 2.839464, -1.513218
 H, -4.658027, 3.807823, -0.89493
 H, -4.449449, -0.134803, -0.28662
 O, -4.963137, -0.842082, -0.731735
 C, -4.3879, -2.093463, -0.346141
 C, -4.720196, -2.448949, 1.092848
 H, -3.30308, -2.061517, -0.493992
 H, -4.795866, -2.841944, -1.026618
 H, -5.803252, -2.503466, 1.228148
 H, -4.322318, -1.697319, 1.779528
 H, -4.28922, -3.418883, 1.356136

Linear-gauche (EtOH)₈

H, 5.564105, 3.072418, -0.469361
 O, 4.898672, 2.603188, 0.05586
 C, 3.595507, 2.883823, -0.488083
 C, 3.488087, 2.471431, -1.942463
 H, 2.897943, 2.31921, 0.129567
 H, 3.381732, 3.947999, -0.365841
 H, 3.706922, 1.407809, -2.061162
 H, 4.186628, 3.044041, -2.558806
 H, 2.475805, 2.661624, -2.308386
 H, 5.188841, 0.832916, 0.217945
 O, 5.275612, -0.135423, 0.356965
 C, 5.034546, -0.420314, 1.743611
 C, 3.64913, 0.020348, 2.180597
 H, 5.803385, 0.067386, 2.348882
 H, 5.15366, -1.498123, 1.851497
 H, 2.883031, -0.424129, 1.5412
 H, 3.557346, 1.108022, 2.133645
 H, 3.462803, -0.292823, 3.211667
 H, 4.156717, -0.957061, -0.745662
 O, 3.530023, -1.362479, -1.388214
 C, 3.550661, -2.788815, -1.232359

C, 2.847334, -3.237897, 0.035848
 H, 4.588223, -3.132923, -1.241038
 H, 3.053577, -3.196207, -2.112704
 H, 1.810603, -2.892026, 0.047717
 H, 3.354839, -2.849533, 0.922103
 H, 2.846338, -4.329907, 0.094216
 H, 2.020726, -0.530445, -1.018213
 O, 1.218484, 0.005663, -0.820537
 C, 0.334321, -0.055863, -1.947599
 C, -0.171099, -1.465909, -2.193458
 H, 0.851357, 0.327104, -2.831992
 H, -0.493669, 0.616788, -1.720456
 H, -0.684917, -1.85217, -1.310092
 H, 0.658271, -2.135451, -2.437213
 H, -0.87155, -1.471347, -3.032831
 H, 0.430685, -0.461792, 0.672756
 O, -0.04716, -0.646338, 1.51534
 C, -0.239819, 0.59785, 2.204093
 C, -1.018598, 1.595966, 1.365426
 H, 0.733899, 1.008703, 2.48707
 H, -0.779523, 0.352774, 3.11901
 H, -1.958151, 1.156531, 1.023303
 H, -0.439757, 1.904121, 0.491268
 H, -1.244904, 2.487842, 1.95643
 H, -1.574826, -1.43419, 1.098748
 O, -2.406249, -1.896712, 0.84293
 C, -3.182784, -2.149229, 2.023003
 C, -3.903244, -0.903797, 2.507173
 H, -2.528059, -2.546947, 2.802864
 H, -3.898992, -2.926813, 1.756705
 H, -4.566616, -0.516034, 1.729809
 H, -3.189384, -0.123442, 2.782145
 H, -4.50774, -1.139378, 3.387595
 H, -3.131317, -0.804384, -0.356946
 O, -3.476973, -0.235467, -1.081832
 C, -4.136262, -1.080727, -2.03483
 C, -5.363491, -1.750898, -1.443278
 H, -3.430552, -1.830206, -2.403337
 H, -4.411718, -0.43513, -2.86925
 H, -6.075344, -1.004213, -1.083023
 H, -5.084682, -2.399926, -0.608781
 H, -5.858299, -2.364085, -2.201381
 H, -4.667813, 1.002465, -0.485163
 O, -5.324304, 1.673942, -0.201662
 C, -4.622549, 2.739206, 0.444928
 C, -3.681971, 3.45862, -0.506414
 H, -4.073436, 2.351022, 1.308493
 H, -5.385668, 3.423588, 0.817143
 H, -4.242004, 3.893897, -1.337763
 H, -2.939733, 2.767296, -0.914474
 H, -3.15223, 4.261359, 0.014129

Cyclic-gauche (EtOH)₃
 C, 2.378053, -2.515346, 0.070234
 C, 0.956936, -2.18314, 0.482757
 O, 0.201468, -1.6403, -0.610711
 H, 0.621136, -0.798204, -0.879189
 H, 2.379946, -3.243751, -0.74384
 H, 2.902805, -1.616124, -0.26449
 H, 2.927822, -2.937139, 0.915598
 H, 0.423092, -3.079872, 0.795853
 H, 0.952147, -1.474536, 1.316801
 H, -1.167596, -0.563214, 0.234677
 O, -1.51425, 0.293015, 0.555342
 C, -2.687028, 0.619202, -0.205711
 C, -3.833451, -0.3255, 0.101021
 H, -2.445075, 0.60025, -1.272336
 H, -2.94298, 1.642635, 0.067384
 H, -4.081058, -0.295847, 1.16458
 H, -3.569534, -1.351804, -0.167573
 H, -4.72059, -0.040173, -0.470438
 H, -0.006657, 1.130769, -0.268875
 O, 0.804299, 1.126327, -0.816646
 C, 1.904677, 1.574772, -0.013184
 C, 1.755498, 3.033514, 0.375484
 H, 2.797274, 1.426496, -0.620445
 H, 1.988261, 0.946328, 0.878311
 H, 0.858213, 3.181013, 0.98232
 H, 1.681944, 3.661419, -0.515284
 H, 2.620604, 3.358406, 0.959465

Cyclic-gauche (EtOH)₄
 C, 1.775614, 3.500326, -0.970732
 C, 0.440444, 2.781261, -1.005926
 O, 0.27906, 1.920475, 0.131428
 H, 0.941213, 1.194404, 0.061272
 H, 1.863801, 4.098408, -0.060802
 H, 2.599261, 2.78178, -0.998391
 H, 1.870861, 4.163625, -1.834388
 H, -0.385288, 3.491804, -0.965854
 H, 0.342135, 2.192721, -1.92278
 H, -1.194096, 0.94107, -0.060384
 O, -1.920044, 0.278733, -0.130065
 C, -2.781027, 0.440917, 1.007031
 C, -3.501661, 1.775183, 0.969676
 H, -2.192364, 0.344764, 1.92403
 H, -3.49061, -0.385703, 0.968282

H, -4.099902, 1.861142, 0.059637
 H, -2.78408, 2.599716, 0.995917
 H, -4.165018, 1.871089, 1.833215
 H, -0.94063, -1.194215, 0.061572
 O, -0.278248, -1.920217, 0.129833
 C, -0.441484, -2.77979, -1.008183
 C, -1.774635, -3.502394, -0.969153
 H, 0.386237, -3.488236, -0.97218
 H, -0.348057, -2.189628, -1.924501
 H, -2.600239, -2.785943, -0.992412
 H, -1.857759, -4.102257, -0.059918
 H, -1.871477, -4.164464, -1.833577
 H, 1.194507, -0.940807, -0.062276
 O, 1.920577, -0.27855, -0.131019
 C, 2.780063, -0.441011, 1.007172
 C, 3.501445, -1.774875, 0.969955
 H, 2.190046, -0.345786, 1.923403
 H, 3.489254, 0.38602, 0.969988
 H, 4.101146, -1.859847, 0.060784
 H, 2.784242, -2.599791, 0.994453
 H, 4.163506, -1.871094, 1.834455

H, -2.931962, -3.868945, 0.638795
 H, -2.962244, -3.566764, 2.386529
 H, -1.900673, 0.207776, -0.196585
 O, -2.008245, 1.187428, -0.223485
 C, -2.729639, 1.535045, -1.414768
 C, -4.151036, 1.006873, -1.381287
 H, -2.194971, 1.151271, -2.288204
 H, -2.723189, 2.624353, -1.462829
 H, -4.682116, 1.39213, -0.507812
 H, -4.156965, -0.085536, -1.34295
 H, -4.688477, 1.319275, -2.280601
 H, -0.410033, 1.904588, -0.310291
 O, 0.482694, 2.323413, -0.285264
 C, 0.641694, 2.920793, 1.010569
 C, -0.320995, 4.076266, 1.212852
 H, 1.673945, 3.267142, 1.062093
 H, 0.496769, 2.159284, 1.782595
 H, -1.356165, 3.729852, 1.158261
 H, -0.167823, 4.841402, 0.448189
 H, -0.163951, 4.530555, 2.194775

Cyclic-gauche (EtOH)₅
 C, 4.21055, 1.594339, -0.291827
 C, 3.347474, 0.509163, 0.324029
 O, 2.22699, 0.191995, -0.514859
 H, 1.602352, 0.95309, -0.492105
 H, 4.589159, 1.273613, -1.265058
 H, 3.636741, 2.514751, -0.427917
 H, 5.062309, 1.813876, 0.357451
 H, 3.914171, -0.415476, 0.437026
 H, 2.988171, 0.80914, 1.312459
 H, 1.388171, -1.2519, 0.033023
 O, 0.924142, -2.085524, 0.282518
 C, 1.240527, -3.082649, -0.701683
 C, 2.716012, -3.43395, -0.688867
 H, 0.937136, -2.725734, -1.690142
 H, 0.6333, -3.95345, -0.453769
 H, 3.019692, -3.777597, 0.302813
 H, 3.323218, -2.566926, -0.960925
 H, 2.917982, -4.231149, -1.409124
 H, -0.789427, -1.732105, 0.077725
 O, -1.749313, -1.534938, -0.030243
 C, -2.410677, -1.852602, 1.204001
 C, -2.429472, -3.348244, 1.457297
 H, -3.42465, -1.462036, 1.113038
 H, -1.915445, -1.326535, 2.025176
 H, -1.41179, -3.737136, 1.547135

Gauche-[OAc(EtOH)]⁻
 O, -1.115894, -0.588895, 1.115468
 O, -0.917949, 0.897652, -0.545687
 C, -1.565788, 0.02416, 0.11276
 C, -2.981533, -0.269015, -0.357101
 H, -3.419959, -1.10056, 0.192856
 H, -3.595822, 0.622943, -0.209891
 H, -2.977921, -0.493353, -1.425636
 C, 2.314143, -0.05987, 0.442062
 H, 1.844764, -0.497944, 1.32863
 H, 3.356537, 0.150551, 0.686244
 C, 2.230411, -1.026931, -0.727092
 H, 2.733351, -1.965814, -0.478614
 H, 1.188263, -1.251249, -0.969211
 H, 2.709006, -0.600738, -1.612478
 O, 1.711891, 1.200101, 0.145264
 H, 0.754, 1.055233, -0.056035

Gauche-[OAc(EtOH)₂]⁻
 O, 0.113636, 0.484312, 0.038825
 O, -1.384101, 1.963647, -0.709449
 C, -0.269104, 1.676425, -0.215074
 C, 0.717125, 2.784291, 0.106924
 H, 1.007843, 2.723256, 1.157987

H, 1.620089, 2.64625, -0.49325
 H, 0.290844, 3.764762, -0.09994
 O, -1.591948, -1.590196, -0.540433
 C, -2.953373, -1.197211, -0.357414
 H, -3.196826, -0.37233, -1.034026
 H, -3.560637, -2.057144, -0.64391
 C, -3.242154, -0.801291, 1.080871
 H, -4.296042, -0.533384, 1.197631
 H, -3.016978, -1.629792, 1.757205
 H, -2.635636, 0.060172, 1.372269
 H, -1.015584, -0.811541, -0.35145
 O, 2.649168, -0.006115, 0.920661
 C, 3.188762, -0.735442, -0.183616
 H, 3.020236, -0.177547, -1.111012
 H, 4.265652, -0.795166, -0.019436
 C, 2.590031, -2.127787, -0.289624
 H, 2.775076, -2.69228, 0.627727
 H, 1.510221, -2.071766, -0.451178
 H, 3.034817, -2.671534, -1.127843
 H, 1.715164, 0.21096, 0.689987

Gauche- $\left[\text{OAc}(\text{EtOH})_3 \right]^-$

O, 0.177232, -0.595095, -0.163168
 O, -1.360801, -1.511038, -1.492811
 C, -0.319391, -1.585418, -0.788593
 C, 0.409041, -2.910289, -0.697188
 H, 1.239221, -2.893997, -1.409415
 H, 0.823429, -3.053987, 0.301338
 H, -0.251952, -3.73731, -0.953223
 O, -0.008918, 1.856479, -1.462005
 C, -0.324451, 2.877143, -0.512673
 H, -0.386144, 3.808291, -1.077626
 H, -1.308846, 2.685895, -0.074879
 C, 0.729268, 2.988153, 0.576354
 H, 0.461011, 3.77814, 1.283594
 H, 0.816621, 2.048709, 1.129111
 H, 1.703537, 3.22715, 0.143164
 O, 2.361505, -0.82585, 1.475699
 C, 3.492508, -0.877338, 0.60378
 H, 4.35426, -1.107495, 1.23183
 H, 3.371262, -1.697093, -0.112319
 C, 3.706883, 0.435647, -0.129969
 H, 2.847311, 0.669345, -0.763353
 H, 3.846082, 1.252106, 0.583019
 H, 4.594853, 0.374413, -0.765625
 H, 1.555592, -0.755005, 0.913528
 H, -0.012136, 0.990709, -0.997224
 O, -3.057471, 0.425232, -0.409072

C, -2.908159, 0.385504, 1.011567
 H, -1.890431, 0.676979, 1.289057
 H, -3.592646, 1.136826, 1.408232
 C, -3.235049, -0.982923, 1.585658
 H, -2.545319, -1.739301, 1.201857
 H, -3.150606, -0.965442, 2.675805
 H, -4.254102, -1.275414, 1.320277
 H, -2.417257, -0.204219, -0.809911

Gauche- $\left[\text{OAc}(\text{EtOH})_4 \right]^-$

O, 1.059878, -0.312539, 0.463836
 O, -1.065132, -0.570686, -0.150371
 C, -0.041167, -0.933308, 0.501007
 C, -0.157886, -2.174718, 1.35858
 H, -0.374322, -3.032946, 0.717815
 H, 0.756672, -2.360646, 1.919377
 H, -0.995075, -2.059297, 2.050639
 O, 1.435536, 1.630201, -1.470625
 C, 2.009092, 2.695692, -0.71079
 H, 1.986114, 3.578723, -1.350944
 H, 1.385653, 2.900377, 0.165842
 C, 3.434577, 2.38616, -0.285294
 H, 3.861449, 3.233617, 0.25883
 H, 3.462485, 1.511165, 0.369233
 H, 4.059122, 2.186289, -1.159654
 O, 3.41798, -1.551918, 1.163457
 C, 3.645308, -2.34843, -0.002223
 H, 4.456253, -3.034119, 0.247027
 H, 2.753568, -2.946769, -0.218971
 C, 4.018756, -1.501599, -1.206851
 H, 3.206033, -0.819864, -1.469222
 H, 4.913713, -0.910772, -0.995749
 H, 4.221531, -2.141035, -2.070774
 H, 2.579994, -1.061149, 1.015205
 H, 1.247426, 0.89605, -0.845051
 O, -1.658737, 2.127571, -0.334564
 C, -2.447239, 2.209272, 0.855022
 H, -3.020206, 3.134681, 0.78058
 H, -3.156555, 1.375795, 0.888153
 C, -1.585155, 2.219938, 2.105466
 H, -0.893353, 3.065576, 2.085956
 H, -2.210361, 2.304413, 2.998927
 H, -1.002992, 1.297402, 2.180813
 H, -1.305221, 1.213634, -0.38164
 O, -3.482883, -1.829881, 0.243571
 H, -2.609842, -1.385745, 0.150564
 C, -4.117213, -1.811785, -1.037898
 H, -4.992028, -2.458096, -0.955329

H, -3.447226, -2.246531, -1.786734
 C, -4.530363, -0.409602, -1.450875
 H, -3.657184, 0.242628, -1.533854
 H, -5.032164, -0.433625, -2.422335
 H, -5.218874, 0.018533, -0.718007

Gauche- $\left[\text{OAc}(\text{EtOH})_5 \right]^-$

O, 1.581333, -0.428924, -0.035713
 O, -0.460108, -0.154748, -0.881959
 C, 0.421232, -0.857389, -0.306121
 C, 0.09308, -2.28141, 0.089346
 H, 0.803228, -2.958821, -0.390424
 H, 0.212484, -2.389272, 1.170005
 H, -0.921295, -2.556949, -0.194116
 O, 2.640281, 1.805257, -1.287868
 C, 3.111362, 2.636404, -0.224265
 H, 3.437989, 3.568737, -0.687035
 H, 2.28541, 2.869271, 0.454652
 C, 4.257481, 1.994991, 0.540109
 H, 4.608161, 2.667312, 1.328421
 H, 3.937098, 1.059402, 1.006051
 H, 5.093689, 1.781381, -0.130297
 O, 3.439697, -2.134676, 1.078661
 C, 4.129994, -2.690555, -0.042936
 H, 4.753631, -3.494903, 0.349464
 H, 3.409395, -3.13345, -0.738621
 C, 4.984349, -1.657406, -0.757529
 H, 4.36299, -0.854568, -1.162239
 H, 5.712103, -1.221329, -0.068603
 H, 5.52587, -2.12245, -1.586252
 H, 2.763645, -1.510437, 0.731552
 H, 2.206221, 1.0215, -0.884263
 O, -0.589096, 2.552465, -0.261046
 C, -1.332784, 2.466885, 0.956875
 H, -1.760428, 3.456355, 1.125588
 H, -2.160314, 1.760015, 0.835695
 C, -0.456924, 2.063347, 2.131091
 H, 0.348727, 2.788382, 2.270561
 H, -1.047584, 2.02359, 3.050647
 H, -0.011721, 1.078945, 1.963987
 H, -0.396504, 1.635672, -0.551243
 O, -2.931239, -1.149214, -1.499658
 H, -2.039718, -0.802492, -1.256698
 C, -3.50118, -0.29346, -2.498082
 H, -4.417809, -0.7835, -2.827583
 H, -2.820952, -0.234064, -3.35241
 C, -3.798905, 1.092309, -1.95487
 H, -2.879714, 1.586075, -1.630693

H, -4.262028, 1.708748, -2.730457
 H, -4.485035, 1.032493, -1.106045
 O, -4.591342, -1.535186, 0.694932
 H, -3.992078, -1.375828, -0.066624
 C, -4.204224, -0.667093, 1.762966
 H, -4.911975, -0.84967, 2.572385
 H, -4.313224, 0.377369, 1.451995
 C, -2.783231, -0.934303, 2.228514
 H, -2.671414, -1.979351, 2.52921
 H, -2.068151, -0.72317, 1.430114
 H, -2.538394, -0.298694, 3.083889

Gauche- $\left[\text{OAc}(\text{EtOH})_6 \right]^-$

O, 0.652543, 0.157958, -0.985342
 O, -1.552813, 0.43329, -1.11586
 C, -0.516445, -0.28971, -1.17807
 C, -0.656666, -1.763679, -1.492796
 H, -0.047013, -2.004376, -2.366509
 H, -0.27365, -2.347339, -0.652478
 H, -1.692685, -2.039008, -1.683454
 O, 1.314853, 2.858345, -1.090888
 C, 1.845073, 3.232795, 0.1833
 H, 2.128668, 4.282677, 0.098151
 H, 1.063925, 3.156025, 0.944923
 C, 3.045511, 2.386912, 0.572361
 H, 3.428224, 2.69928, 1.54851
 H, 2.767096, 1.331968, 0.638134
 H, 3.845573, 2.494449, -0.164093
 O, 2.750659, -1.570587, -0.785446
 C, 3.461637, -1.496023, -2.026662
 H, 4.224404, -2.274441, -1.990522
 H, 2.778599, -1.732753, -2.8481
 C, 4.090991, -0.130857, -2.239322
 H, 3.322745, 0.645934, -2.269628
 H, 4.790724, 0.102113, -1.433065
 H, 4.6365, -0.110144, -3.186935
 H, 1.979472, -0.955694, -0.837164
 H, 1.00563, 1.927965, -1.032378
 O, -1.645422, 2.416266, 0.833367
 C, -1.944813, 1.601147, 1.96908
 H, -2.366602, 2.267483, 2.723021
 H, -2.712795, 0.867077, 1.703743
 C, -0.707376, 0.905018, 2.510681
 H, 0.043474, 1.640753, 2.809697
 H, -0.961446, 0.298677, 3.384646
 H, -0.266148, 0.25097, 1.753993
 H, -1.494697, 1.815411, 0.073199
 O, -4.065027, -0.587379, -1.461464

H, -3.148725, -0.250006, -1.319635
 C, -4.929973, 0.52913, -1.706391
 H, -5.880365, 0.109232, -2.036875
 H, -4.52039, 1.127877, -2.524632
 C, -5.121314, 1.379698, -0.463612
 H, -4.169052, 1.800855, -0.133024
 H, -5.804472, 2.207293, -0.67429
 H, -5.543491, 0.782285, 0.348662
 O, -4.938301, -2.307313, 0.533703
 H, -4.617255, -1.68208, -0.152237
 C, -4.266551, -2.016255, 1.761397
 H, -4.689531, -2.692517, 2.505118
 H, -4.4919, -0.991543, 2.075444
 C, -2.764675, -2.218322, 1.653343
 H, -2.539735, -3.238318, 1.331046
 H, -2.330479, -1.521634, 0.932424
 H, -2.288041, -2.048334, 2.622728
 O, 3.958988, -1.181835, 1.705212
 H, 3.575624, -1.309422, 0.811228
 C, 5.268634, -0.628142, 1.562457
 H, 5.221146, 0.30013, 0.984384
 H, 5.602957, -0.375935, 2.569545
 C, 6.229569, -1.610267, 0.915194
 H, 5.888676, -1.881383, -0.087734
 H, 7.226792, -1.169769, 0.829486
 H, 6.30279, -2.522392, 1.512649

$\text{Trans-}\left[\text{OAc}(\text{EtOH})_2\right]^-$
 O, -0.076991, 0.811402, -0.216512
 O, 1.472871, 2.420805, -0.174045
 C, 0.290397, 2.025226, -0.056548
 C, -0.80356, 3.016211, 0.296792
 H, -1.573125, 2.999399, -0.478733
 H, -1.276131, 2.714922, 1.234734
 H, -0.407919, 4.025728, 0.396633
 O, 1.873766, -1.032191, -0.736927
 C, 2.705911, -1.034101, 0.424225
 H, 3.122315, -0.034536, 0.583764
 H, 2.112687, -1.298067, 1.306367
 C, 3.820847, -2.038382, 0.221968
 H, 4.474665, -2.060947, 1.097258
 H, 3.411497, -3.040326, 0.070488
 H, 4.421555, -1.772346, -0.651307
 H, 1.1763, -0.346615, -0.603733
 O, -2.665771, 0.00503, 0.016306
 C, -2.49536, -1.414388, 0.019627
 H, -1.950511, -1.724149, -0.878
 H, -1.906926, -1.715148, 0.892875
 C, -3.860859, -2.068735, 0.056503
 H, -4.407184, -1.765083, 0.952952
 H, -4.446185, -1.783631, -0.821248
 H, -3.760272, -3.156719, 0.065746
 H, -1.766025, 0.402158, -0.053783

$\text{Trans-}\left[\text{OAc}(\text{EtOH})\right]^-$
 O, 1.891036, 1.33454, 0.169822
 O, 0.9545, -0.637419, -0.321043
 C, 1.949488, 0.090665, -0.008924
 C, 3.285281, -0.616485, 0.148811
 H, 4.076795, 0.081207, 0.418862
 H, 3.199941, -1.387381, 0.918153
 H, 3.543961, -1.115347, -0.788079
 C, -2.289041, -0.47344, 0.168563
 H, -1.961022, -0.693386, 1.189985
 H, -2.178282, -1.387115, -0.424971
 C, -3.734616, -0.021703, 0.169047
 H, -4.376528, -0.797756, 0.592967
 H, -3.850303, 0.886554, 0.765579
 H, -4.0707, 0.186577, -0.849708
 O, -1.483206, 0.566774, -0.386171
 H, -0.549175, 0.241264, -0.388625

$\text{Trans-}\left[\text{OAc}(\text{EtOH})_3\right]^-$
 O, 0.009447, 1.01477, 0.145983
 O, 1.522413, 2.308794, -0.863451
 C, 0.416138, 2.139593, -0.287283
 C, -0.500692, 3.328586, -0.082005
 H, -1.441501, 3.155049, -0.61033
 H, -0.732581, 3.42815, 0.980703
 H, -0.045026, 4.248117, -0.445348
 O, -0.138505, -1.417301, -1.155543
 C, -0.434661, -2.245851, -0.027891
 H, 0.492321, -2.50817, 0.493479
 H, -1.073647, -1.701007, 0.673329
 C, -1.133505, -3.49859, -0.513631
 H, -1.349086, -4.161836, 0.327541
 H, -2.075848, -3.246206, -1.00664
 H, -0.502812, -4.038031, -1.224712
 O, -2.526563, 0.678786, 1.118233
 C, -3.277939, 0.325676, -0.046025

H, -3.535085, 1.2285, -0.610571
 H, -2.674353, -0.316341, -0.694259
 C, -4.536699, -0.397722, 0.38569
 H, -4.284543, -1.317099, 0.920492
 H, -5.136148, 0.235297, 1.044957
 H, -5.143263, -0.657919, -0.485205
 H, -1.604854, 0.875178, 0.831698
 H, 0.0598, -0.520176, -0.813742
 O, 3.569722, 0.650546, 0.020489
 C, 3.123167, -0.668211, 0.345139
 H, 2.372139, -0.622613, 1.139609
 H, 2.664228, -1.131398, -0.533333
 C, 4.319301, -1.476973, 0.801023
 H, 4.776326, -1.022582, 1.683626
 H, 4.014341, -2.4949, 1.05607
 H, 5.070069, -1.529503, 0.008768
 H, 2.806751, 1.17368, -0.311919

$\text{Trans-}\left[\text{OAc}(\text{EtOH})_4\right]$
 O, 0.484046, -0.718852, -0.160561
 O, -1.528249, -0.479526, -1.085743
 C, -0.653749, -1.167761, -0.479372
 C, -1.008113, -2.585276, -0.086508
 H, -1.633268, -3.049604, -0.849293
 H, -0.112151, -3.181886, 0.082349
 H, -1.582192, -2.548827, 0.844219
 O, 2.202756, 1.078882, -1.374112
 C, 2.939241, 1.568814, -0.250089
 H, 2.47193, 2.484405, 0.127933
 H, 2.923907, 0.826004, 0.552593
 C, 4.363246, 1.853098, -0.682076
 H, 4.941652, 2.248513, 0.156634
 H, 4.847669, 0.940966, -1.039742
 H, 4.376299, 2.591828, -1.487549
 O, -4.156355, -1.262139, -0.811883
 H, -3.21421, -1.048859, -0.992752
 C, -4.612584, -0.361429, 0.201354
 H, -3.952084, -0.419113, 1.072639
 H, -4.588281, 0.665708, -0.176104
 C, -6.02574, -0.745667, 0.585997
 H, -6.052456, -1.765343, 0.977928
 H, -6.407567, -0.069037, 1.354208
 H, -6.686845, -0.689407, -0.282374
 O, 2.513814, -1.950553, 1.204165
 C, 3.514855, -2.109524, 0.194265
 H, 3.409855, -3.092655, -0.276865
 H, 3.379161, -1.350492, -0.581086
 C, 4.883942, -1.97605, 0.828836

H, 5.005673, -0.985275, 1.274444
 H, 5.018329, -2.726464, 1.612097
 H, 5.666079, -2.117973, 0.078703
 H, 1.704124, -1.599985, 0.772046
 H, 1.462236, 0.533775, -1.035567
 O, -1.861242, 1.994758, 0.186989
 C, -0.584499, 2.610227, 0.386279
 H, 0.03591, 1.976227, 1.02691
 H, -0.076874, 2.726174, -0.575731
 C, -0.799387, 3.961717, 1.034136
 H, -1.303461, 3.850195, 1.99724
 H, 0.160352, 4.456427, 1.202631
 H, -1.410541, 4.601926, 0.393238
 H, -1.724684, 1.153328, -0.296528

$\text{Trans-}\left[\text{OAc}(\text{EtOH})_5\right]$

O, -0.86362, -0.234995, 0.184606
 O, 1.187768, -1.096996, 0.06227
 C, -0.032894, -1.077195, -0.267237
 C, -0.520322, -2.138865, -1.229467
 H, -0.602029, -3.083268, -0.68411
 H, -1.495257, -1.886238, -1.644593
 H, 0.203865, -2.280108, -2.033157
 O, 0.115568, 2.336159, 0.408172
 C, 0.789733, 2.415861, -0.850035
 H, 1.615532, 1.697264, -0.876206
 H, 0.097055, 2.163052, -1.660251
 C, 1.313996, 3.825236, -1.028127
 H, 1.840779, 3.91601, -1.98102
 H, 0.492095, 4.545514, -1.017527
 H, 2.008758, 4.080027, -0.223892
 O, -4.828423, -1.272047, 0.136748
 H, -4.280591, -0.69037, -0.431918
 C, -4.032564, -1.649947, 1.265563
 H, -3.155902, -2.212937, 0.930149
 H, -3.681742, -0.7542, 1.787649
 C, -4.881523, -2.499492, 2.186995
 H, -5.22374, -3.399335, 1.670097
 H, -4.303266, -2.803518, 3.06258
 H, -5.755885, -1.939172, 2.526964
 O, -3.093495, 0.440594, -1.222549
 C, -3.427789, 1.760607, -0.770334
 H, -3.504846, 1.764712, 0.321366
 H, -2.634446, 2.455473, -1.059673
 C, -4.743831, 2.16309, -1.40046
 H, -4.664168, 2.156315, -2.490186
 H, -5.538546, 1.474058, -1.104025
 H, -5.023044, 3.169861, -1.081085

H, -2.268936, 0.157408, -0.760121
 H, -0.224181, 1.420245, 0.49689
 O, 2.548264, 0.068875, 2.177907
 C, 3.313419, 1.187536, 1.722694
 H, 3.8486, 0.92405, 0.805028
 H, 2.649028, 2.027749, 1.502284
 C, 4.294888, 1.570036, 2.810726
 H, 4.968438, 0.738292, 3.031245
 H, 4.895085, 2.427287, 2.496301
 H, 3.763452, 1.839876, 3.726596
 H, 1.990293, -0.259718, 1.440851
 O, 3.146502, -2.508843, -1.237271
 H, 2.359926, -2.124276, -0.791192
 C, 4.218965, -1.579767, -1.060579
 H, 3.922426, -0.596336, -1.440067
 H, 4.448607, -1.478661, 0.0053
 C, 5.431035, -2.088177, -1.812774
 H, 5.211308, -2.175486, -2.879556
 H, 6.270122, -1.399578, -1.687743
 H, 5.732012, -3.069493, -1.437839

Trans-- $\left[\text{OAc}(\text{EtOH})_6 \right]^-$

O, -1.003886, -0.343632, -1.201943
 O, 0.829629, 0.884235, -0.888067
 C, -0.405356, 0.67007, -0.730378
 C, -1.220154, 1.656658, 0.078058
 H, -2.128781, 1.918432, -0.467114
 H, -1.517397, 1.178987, 1.015898
 H, -0.648257, 2.556158, 0.30147
 O, -0.219018, -2.756856, -0.044489
 C, -0.060786, -2.241223, 1.280807
 H, 0.641517, -1.401409, 1.270509
 H, -1.023361, -1.875729, 1.654239
 C, 0.460228, -3.351247, 2.169196
 H, 0.580315, -2.991201, 3.193633
 H, -0.238626, -4.191306, 2.179997
 H, 1.428535, -3.709007, 1.810439
 O, -5.050674, 1.35346, -0.657169
 H, -4.484075, 0.562566, -0.527403
 C, -5.253551, 1.955322, 0.624205
 H, -5.694315, 1.225089, 1.310733
 H, -4.29275, 2.274614, 1.04108
 C, -6.174804, 3.144825, 0.456997
 H, -7.141506, 2.827484, 0.058479
 H, -6.340803, 3.634129, 1.419657
 H, -5.737287, 3.87362, -0.2297
 O, -3.445705, -0.835158, -0.073767
 C, -3.957453, -2.067726, -0.598381

H, -4.044749, -1.993963, -1.68627
 H, -3.262561, -2.878474, -0.363069
 C, -5.310579, -2.329415, 0.027743
 H, -5.222347, -2.394943, 1.114915
 H, -6.01044, -1.526927, -0.21832
 H, -5.721538, -3.271332, -0.34285
 H, -2.572544, -0.648647, -0.495279
 H, -0.444982, -2.000048, -0.621198
 O, 2.794644, -0.588293, -2.162749
 C, 2.748413, -1.960598, -1.764955
 H, 2.593013, -2.031052, -0.684151
 H, 1.910725, -2.462525, -2.259532
 C, 4.05649, -2.618463, -2.151841
 H, 4.893916, -2.140891, -1.636753
 H, 4.042189, -3.677295, -1.88227
 H, 4.220546, -2.540056, -3.229485
 H, 2.025106, -0.122393, -1.770042
 O, 2.3607, 2.815654, 0.284042
 H, 1.713519, 2.165725, -0.077635
 C, 3.368755, 3.021189, -0.717
 H, 3.833559, 2.063762, -0.970473
 H, 2.903851, 3.425213, -1.620592
 C, 4.400165, 3.984103, -0.170415
 H, 4.872066, 3.57439, 0.726187
 H, 5.17769, 4.165511, -0.916096
 H, 3.936327, 4.939716, 0.085144
 O, 3.556603, 1.120186, 2.160587
 H, 3.158463, 1.820466, 1.602463
 C, 3.607445, -0.072456, 1.368976
 H, 2.649464, -0.214879, 0.864028
 H, 4.384499, 0.023845, 0.603439
 C, 3.910233, -1.245572, 2.276902
 H, 3.123612, -1.368078, 3.025569
 H, 3.984225, -2.167471, 1.694536
 H, 4.860549, -1.091644, 2.794776

$\left[\text{Zn}(\text{EtOH})_4 \right]^{2+} (\text{EtOH})$

Zn, 0.459271, 0.401758, -0.315951
 O, -1.205625, 1.48226, -0.673547
 O, 0.093321, -0.52379, 1.501464
 O, 2.497443, 0.755481, -0.117096
 H, 2.860288, 1.176026, -0.914092
 O, 0.405082, -1.07739, -1.73073
 H, -0.875945, -0.41198, 1.63049
 H, -0.050838, -0.79661, -2.540732
 H, -1.865556, 1.101684, -0.047633
 C, -1.159091, 2.925206, -0.503071
 H, -0.355528, 3.267854, -1.151693

H, -0.899521, 3.144385, 0.533475
 C, 2.931218, 1.499821, 1.056425
 H, 2.453885, 2.480171, 1.041652
 H, 2.557313, 0.930796, 1.904279
 C, 1.570905, -1.87546, -2.07692
 H, 2.234285, -1.26901, -2.693746
 H, 2.05956, -2.08951, -1.129328
 C, 0.448008, -1.9278, 1.586408
 H, 1.50905, -1.97223, 1.346785
 H, -0.110989, -2.48258, 0.83096
 C, 0.177431, -2.45484, 2.978092
 H, 0.471437, -3.50529, 3.037274
 H, 0.747126, -1.89193, 3.720208
 H, -0.885907, -2.38422, 3.220548
 C, 1.147371, -3.14358, -2.782485
 H, 0.623605, -2.91435, -3.713688
 H, 2.031471, -3.73768, -3.025158
 H, 0.492669, -3.74016, -2.143948
 C, 4.438216, 1.612943, 1.07755
 H, 4.797255, 2.158617, 0.201302
 H, 4.750083, 2.159505, 1.97033
 H, 4.900314, 0.624166, 1.0948
 C, -2.486383, 3.53848, -0.886914
 H, -2.436343, 4.623235, -0.767365
 H, -2.72859, 3.313142, -1.927278
 H, -3.287194, 3.160809, -0.246399
 O, -2.578883, -0.02182, 1.164435
 C, -3.109399, -1.20926, 0.529765
 H, -2.40037, -1.44543, -0.263772
 H, -3.109559, -2.02337, 1.256687
 C, -4.49602, -0.96406, -0.024152
 H, -4.482605, -0.15442, -0.757152
 H, -4.864183, -1.86971, -0.511813
 H, -5.189946, -0.70295, 0.778776
 H, -3.187634, 0.271647, 1.860369

$\left[\text{Zn}(\text{EtOH})_4\right]^{2+} (\text{EtOH})_2$
 Zn, 0.030411, 0.185417, -0.11279
 O, 1.547705, 1.29523, 0.732181
 O, 1.137306, -0.973197, -1.416988
 O, -1.420637, 1.626448, -0.407934
 H, -2.310542, 1.292595, -0.15324
 O, -1.221556, -1.171549, 0.804187
 H, 2.080186, -0.712933, -1.293319
 H, -2.135561, -0.814944, 0.874256
 H, 2.37388, 1.113378, 0.228872
 C, 1.430802, 2.705029, 1.040801
 H, 0.470989, 2.818378, 1.539918

H, 1.415243, 3.270957, 0.107948
 C, -1.497808, 2.496897, -1.560076
 H, -0.4676, 2.691435, -1.852714
 H, -1.998745, 1.963905, -2.369568
 C, -0.799304, -1.755755, 2.062302
 H, 0.281571, -1.866061, 1.987354
 H, -1.02494, -1.053701, 2.865829
 C, 0.998151, -2.416261, -1.388529
 H, -0.047761, -2.611503, -1.615531
 H, 1.214281, -2.775078, -0.38108
 C, 1.914528, -3.048339, -2.411659
 H, 1.785405, -4.132941, -2.399778
 H, 1.683633, -2.681567, -3.41378
 H, 2.96129, -2.826732, -2.18706
 C, -1.475554, -3.090691, 2.278163
 H, -1.240733, -3.775801, 1.460571
 H, -1.126304, -3.532939, 3.214235
 H, -2.559703, -2.971113, 2.338705
 C, -2.221489, 3.775576, -1.200681
 H, -1.703916, 4.29556, -0.391581
 H, -2.261134, 4.436302, -2.069959
 H, -3.246292, 3.563523, -0.885807
 C, 2.575166, 3.132409, 1.932635
 H, 2.478955, 4.19328, 2.175233
 H, 2.5717, 2.560582, 2.862877
 H, 3.534069, 2.982993, 1.429613
 O, 3.536394, 0.230587, -0.836583
 C, 4.609698, -0.459226, -0.152128
 H, 5.138116, -1.084394, -0.872919
 H, 5.300185, 0.283787, 0.24918
 C, 3.998946, -1.291779, 0.951269
 H, 3.294849, -2.021109, 0.542976
 H, 4.786695, -1.834836, 1.47761
 H, 3.477628, -0.659319, 1.673458
 H, 3.90145, 0.753382, -1.566956
 O, -3.57746, 0.212237, 0.490225
 H, -4.127511, 0.542258, 1.217549
 C, -4.425786, -0.334606, -0.545892
 H, -5.104313, 0.447529, -0.889626
 C, -5.181848, -1.549434, -0.052663
 H, -5.802614, -1.95057, -0.857403
 H, -4.489125, -2.329194, 0.271506
 H, -5.834667, -1.286667, 0.783353
 H, -3.748029, -0.591922, -1.358972

$\left[\text{Zn}(\text{EtOH})_5\right]^{2+} (\text{EtOH})$
 Zn, -0.453142, 0.226843, -0.094591
 O, -1.721504, 0.288639, 1.617856
 O, -0.499984, 2.077529, -1.034893

O, -2.177903, -0.45905, -1.166199
 O, 0.43965, -1.544595, -0.681532
 O, 1.279858, 0.759802, 0.950467
 H, -1.347883, 0.815593, 2.342123
 H, -1.935159, -0.675528, -2.081107
 C, 0.511534, 3.118465, -1.033791
 C, -2.041712, -1.038817, 2.117285
 C, -3.422349, 0.2831, -1.169399
 C, -0.14495, -2.852397, -0.447455
 C, 1.309688, 1.663202, 2.075622
 H, -3.283194, 1.204966, -1.736825
 H, -1.179854, -2.777207, -0.769605
 H, 0.53554, 2.403957, 1.88089
 H, -1.123036, -1.507873, 2.472176
 H, -3.60738, 0.531736, -0.127204
 H, 1.047615, 1.109693, 2.979897
 C, -4.54072, -0.556827, -1.745797
 H, -5.474666, 0.00947, -1.719694
 H, -4.330652, -0.821319, -2.785196
 H, -4.67212, -1.472954, -1.166246
 C, 2.6726, 2.308112, 2.202816
 H, 2.67714, 3.002332, 3.046451
 H, 3.441576, 1.551721, 2.378911
 H, 2.924963, 2.86154, 1.295796
 C, 0.41841, 3.94189, -2.299074
 H, -0.553116, 4.437515, -2.372062
 H, 1.193265, 4.712592, -2.289148
 C, 0.603876, -3.907808, -1.231272
 H, 1.645723, -3.967128, -0.906508
 H, 0.139673, -4.883438, -1.067233
 C, -3.087623, -0.966581, 3.207227
 H, -3.337663, -1.977293, 3.538598
 H, -2.71684, -0.406113, 4.069126
 H, -3.996973, -0.488822, 2.837369
 H, -2.40989, -1.582729, 1.249863
 H, 0.578227, -3.685863, -2.300138
 H, 0.563336, 3.314022, -3.180676
 H, 1.376001, -1.567919, -0.381967
 H, 0.376227, 3.732878, -0.143239
 H, 1.460478, 2.593512, -0.965058
 H, -0.118968, -3.060808, 0.623075
 H, -1.381722, 2.479172, -1.081864
 H, 1.941479, 0.042649, 1.055459
 O, 2.972517, -1.309051, 0.437269
 H, 3.332459, -1.972946, 1.045478
 C, 4.04696, -0.726291, -0.335026
 H, 3.571351, 0.0378, -0.948631
 H, 4.745541, -0.24076, 0.348311
 C, 4.74179, -1.765593, -1.187477
 H, 5.537663, -1.293011, -1.768132
 H, 5.191001, -2.540626, -0.561621

H, 4.03801, -2.233037, -1.879347
 $\left[\text{Zn}(\text{EtOH})_5 \right]^{2+} (\text{EtOH})_2$
 Zn, -0.096503, -0.174137, -0.099109
 O, -1.231932, -1.923241, -0.569981
 O, -1.612137, 1.053895, -0.778196
 O, 1.12903, 1.554274, -0.001378
 O, 1.620078, -1.233428, -0.610832
 O, -0.488092, -0.579835, 1.909121
 H, -2.161026, -1.678587, -0.369929
 H, 2.075955, 1.447698, -0.231689
 C, -1.525071, 1.761987, -2.036875
 C, -1.185002, -2.418355, -1.929485
 C, 0.861621, 2.872369, 0.518415
 C, 1.986431, -2.503975, -0.027602
 C, 0.081323, 0.312713, 2.902919
 H, 1.288472, 2.946273, 1.520479
 H, 2.610427, -3.034758, -0.748375
 H, 1.161512, 0.358938, 2.757499
 H, -0.132224, -2.58831, -2.145218
 H, -0.221598, 2.948151, 0.591696
 H, -0.350884, 1.286687, 2.684442
 C, 1.429602, 3.940746, -0.392282
 H, 1.205756, 4.9289, 0.016557
 H, 2.515801, 3.844355, -0.470993
 H, 0.996669, 3.871817, -1.392329
 C, -0.272588, -0.149723, 4.297717
 H, 0.143966, 0.546529, 5.029195
 H, -1.355735, -0.187615, 4.429966
 H, 0.14424, -1.140592, 4.495813
 C, -2.584786, 2.839969, -2.106196
 H, -2.463327, 3.553175, -1.287744
 H, -2.500815, 3.379852, -3.05242
 C, 2.704788, -2.324834, 1.293425
 H, 2.078588, -1.790809, 2.012502
 H, 2.951434, -3.303886, 1.711677
 C, -1.987548, -3.694574, -2.056462
 H, -1.931356, -4.066987, -3.082134
 H, -1.595942, -4.462002, -1.385378
 H, -3.038597, -3.516773, -1.814978
 H, -1.562167, -1.642861, -2.600266
 H, 3.635941, -1.769409, 1.158658
 H, -3.585801, 2.404971, -2.048582
 H, 2.420554, -0.683353, -0.764663
 H, -0.523485, 2.1847, -2.068778
 H, -1.630788, 1.044171, -2.852266

H, 1.054631, -3.052523, 0.095367
 H, -2.467562, 0.570317, -0.720506
 H, -0.238963, -1.497081, 2.111614
 O, 3.566751, 0.681645, -0.954821
 C, 4.801115, 0.666437, -0.204823
 H, 5.239519, 1.665053, -0.235263
 H, 4.509388, 0.445623, 0.82052
 C, 5.757545, -0.372934, -0.747174
 H, 6.02828, -0.143808, -1.781074
 H, 6.672619, -0.384438, -0.15007
 H, 5.309277, -1.368674, -0.714645
 H, 3.752462, 0.919374, -1.876732
 O, -3.697826, -0.644453, -0.260822
 H, -4.438971, -0.739242, -0.87905
 C, -4.209401, -0.328798, 1.055155
 H, -3.349364, -0.398594, 1.719132
 H, -4.933209, -1.093329, 1.339957
 C, -4.820562, 1.055707, 1.093066
 H, -5.660004, 1.12844, 0.39704
 H, -5.191251, 1.267204, 2.099151
 H, -4.079123, 1.814243, 0.831582

$\left[\text{Zn}(\text{EtOH})_6 \right]^{2+} (\text{EtOH})$

Zn, 0.430497, 0.054959, 0.184173
 O, -1.228728, 1.182228, -0.560743
 O, -1.086894, -1.217248, 0.955814
 O, 0.453397, 0.946787, 2.129154
 O, 1.992688, -1.270454, 0.896151
 O, 1.907251, 1.566158, -0.220614
 O, 0.743523, -0.874277, -1.726519
 C, 0.377349, -2.273283, -1.842448
 H, -0.69917, -2.369759, -1.694108
 H, 0.891341, -2.771966, -1.023399
 C, -0.828374, -2.360162, 1.799326
 H, -0.113718, -2.018558, 2.546795
 H, -0.360559, -3.146215, 1.204278
 C, -1.00045, 2.196528, -1.565288
 H, -0.659751, 1.718783, -2.48711
 H, -0.196068, 2.816782, -1.176016
 C, -0.165331, 2.248865, 2.296065
 H, -1.248541, 2.124513, 2.285392
 H, 0.131631, 2.822281, 1.420892
 C, 2.586451, 1.720191, -1.491541
 H, 1.79988, 1.715667, -2.24247
 H, 3.233349, 0.857998, -1.656219
 C, 3.269339, -1.417489, 0.229448
 H, 3.833363, -0.489447, 0.339809
 H, 3.031928, -1.563204, -0.821376

C, -2.251772, 3.013613, -1.809002
 H, -2.599696, 3.471345, -0.880366
 H, -2.034713, 3.808836, -2.526307
 H, -3.050805, 2.392831, -2.22048
 C, 4.030914, -2.597283, 0.793829
 H, 3.460117, -3.520166, 0.671292
 H, 4.983525, -2.705029, 0.26965
 H, 4.241694, -2.450396, 1.856202
 C, 0.310343, 2.90318, 3.57392
 H, -0.155164, 3.886196, 3.679148
 H, 0.037213, 2.30183, 4.444476
 H, 1.394461, 3.033331, 3.559944
 C, 0.803865, -2.828798, -3.18286
 H, 0.545236, -3.888871, -3.237865
 H, 0.294304, -2.311046, -3.999401
 H, 1.88252, -2.726804, -3.318563
 C, 3.368431, 3.014843, -1.524811
 H, 3.854068, 3.124958, -2.497369
 H, 2.708368, 3.870166, -1.36639
 H, 4.143977, 3.020069, -0.754726
 C, -2.108588, -2.844555, 2.44612
 H, -1.893421, -3.699108, 3.092136
 H, -2.559314, -2.05609, 3.052324
 H, -2.829118, -3.163842, 1.688487
 H, -1.937847, 0.566595, -0.851938
 H, 0.294061, -0.377508, -2.428402
 H, 2.150863, -1.10941, 1.840324
 H, 0.068513, 0.336871, 2.778518
 H, -1.744986, -1.44025, 0.266126
 H, 2.567246, 1.536676, 0.491119
 O, -3.055723, -0.875476, -0.934445
 C, -4.277291, -0.754219, -0.169055
 H, -4.816309, -1.701292, -0.223328
 H, -3.955446, -0.594058, 0.859183
 C, -5.129839, 0.397537, -0.657418
 H, -6.055955, 0.439401, -0.078349
 H, -4.604581, 1.34677, -0.535599
 H, -5.391457, 0.268584, -1.710786
 H, -3.270363, -1.181785, -1.828824

$\left[\text{Zn}(\text{EtOH})_6 \right]^{2+} (\text{EtOH})_2$

Zn, 0.097686, 0.114313, -0.044701
 O, -1.226428, 1.497361, 0.898702
 O, -1.359559, -1.392672, 0.395016
 O, 1.322361, -0.158589, 1.733692
 O, 1.393628, -1.494466, -0.667385
 O, 1.528339, 1.661387, -0.396116
 O, -0.791301, 0.133526, -2.006595

C, -2.222948, 0.258539, -2.184998
 H, -2.533303, 1.2554, -1.867153
 H, -2.658954, -0.481856, -1.519568
 C, -1.030411, -2.45889, 1.312366
 H, -0.924458, -2.044542, 2.318089
 H, -0.065353, -2.842052, 0.986314
 C, -1.14792, 2.915052, 1.143379
 H, -0.118032, 3.198011, 0.938155
 H, -1.354251, 3.092488, 2.200766
 C, 0.981844, 0.564317, 2.938344
 H, -0.043063, 0.318501, 3.222783
 H, 1.02468, 1.615656, 2.661258
 C, 1.371641, 2.577533, -1.500485
 H, 0.325164, 2.880857, -1.493227
 H, 1.580772, 2.047836, -2.433632
 C, 1.06834, -2.390991, -1.749469
 H, 1.19944, -1.868398, -2.698854
 H, 0.013008, -2.629115, -1.629697
 C, -2.11947, 3.674387, 0.263532
 H, -3.146593, 3.352415, 0.456444
 H, -2.053269, 4.744601, 0.475133
 H, -1.893648, 3.515949, -0.793142
 C, 1.923258, -3.639018, -1.685397
 H, 1.781743, -4.156101, -0.733524
 H, 1.646168, -4.319066, -2.494787
 H, 2.982112, -3.391461, -1.795995
 C, 1.953435, 0.247683, 4.054545
 H, 1.680286, 0.812808, 4.94895
 H, 1.925512, -0.816523, 4.303557
 H, 2.973266, 0.517125, 3.772172
 C, -2.607447, -0.009836, -3.62379
 H, -3.692258, 0.063679, -3.733102
 H, -2.147804, 0.721228, -4.293657
 H, -2.295299, -1.011748, -3.925844
 C, 2.289426, 3.770822, -1.335336
 H, 2.152121, 4.465137, -2.167685
 H, 2.071068, 4.297613, -0.403726
 H, 3.335093, 3.453405, -1.322228
 C, -2.088181, -3.542446, 1.277277
 H, -1.799782, -4.361596, 1.940447
 H, -3.054034, -3.157425, 1.613066
 H, -2.199521, -3.938323, 0.265276
 H, -2.120983, 1.163144, 1.115643
 H, -0.350163, 0.77596, -2.584871
 H, 2.29108, -1.119865, -0.800027
 H, 1.364226, -1.107683, 1.931489
 H, -2.210025, -0.988776, 0.677461
 H, 2.390839, 1.19921, -0.491535
 O, 3.720908, 0.026957, -0.827811
 H, 4.174629, 0.149224, -1.676092
 O, -3.554474, 0.043055, 1.302243

H, -3.784365, -0.272066, 2.189828
 C, 4.705308, -0.096347, 0.224239
 H, 5.323273, 0.802991, 0.23014
 H, 4.130698, -0.131006, 1.147822
 C, 5.54538, -1.343987, 0.051646
 H, 6.091731, -1.315605, -0.894448
 H, 6.273761, -1.413096, 0.863333
 H, 4.918632, -2.238342, 0.071402
 C, -4.755695, 0.13343, 0.502531
 H, -4.484509, 0.7333, -0.364149
 H, -5.51355, 0.672099, 1.072774
 C, -5.246013, -1.237876, 0.088311
 H, -5.515284, -1.835522, 0.962563
 H, -6.133907, -1.135691, -0.540951
 H, -4.478541, -1.768851, -0.48006

$\left[\text{Zn(OAc)(EtOH)}_2 \right]^+$
 Zn, 0.026058, -0.219021, 0.021722
 O, -0.605502, 1.5534, 0.940779
 O, 0.495138, 1.657901, -0.953983
 O, -1.606254, -1.331532, -0.401637
 O, 1.738826, -1.238827, 0.387811
 C, -0.111694, 2.245253, -0.007956
 C, -0.279161, 3.73511, -0.001809
 H, 0.389191, 4.205175, -0.719754
 H, -1.313975, 3.963423, -0.270256
 H, -0.099947, 4.124926, 1.000253
 C, 2.98259, -0.640445, -0.08578
 C, 4.100335, -1.655649, -0.04248
 H, 3.864493, -2.516538, -0.670728
 H, 5.020979, -1.197344, -0.41113
 H, 4.276122, -1.997983, 0.980076
 H, 2.770042, -0.320781, -1.10303
 H, 3.198112, 0.234459, 0.527559
 H, 1.833074, -1.484588, 1.322618
 C, -2.886784, -0.86798, 0.112874
 C, -3.930296, -1.951763, -0.025263
 H, -4.875705, -1.598505, 0.393066
 H, -4.095576, -2.202395, -1.075908
 H, -3.625741, -2.851881, 0.511886
 H, -2.697988, -0.62465, 1.155661
 H, -3.167667, 0.039528, -0.421448
 H, -1.68476, -1.516905, -1.351806

$\left[\text{Zn(OAc)(EtOH)}_2 \right]^+ (\text{EtOH})$

Zn, 0.691655, 0.034431, 0.196146
 O, 2.599933, -0.843201, 0.268643
 O, 2.21878, 0.890325, -1.016115
 O, -0.533536, 1.187335, 1.312633
 O, -0.539333, -1.461604, -0.52709
 C, 3.021616, 0.007671, -0.576281
 C, 4.444296, -0.010815, -1.046533
 H, 4.466133, 0.003597, -2.137063
 H, 4.940132, 0.89531, -0.690903
 H, 4.968443, -0.886255, -0.670221
 C, -0.325127, -2.77172, 0.065025
 C, -0.357583, -2.694214, 1.57642
 H, -1.3347, -2.353358, 1.927959
 H, -0.160635, -3.678938, 2.006807
 H, 0.407992, -2.000629, 1.936581
 H, -1.095276, -3.438619, -0.323104
 H, 0.644982, -3.101507, -0.300596
 H, -1.437985, -1.145118, -0.279234
 C, -0.353494, 2.625923, 1.254144
 C, -0.735755, 3.180009, -0.100041
 H, -0.55182, 4.25699, -0.118534
 H, -0.143393, 2.716487, -0.893076
 H, -1.796115, 3.011842, -0.302172
 H, -0.955565, 3.063907, 2.050163
 H, 0.698808, 2.792356, 1.474987
 H, -1.452776, 0.93515, 1.062047
 O, -2.761504, -0.063663, 0.308397
 C, -3.46509, 0.467195, -0.838865
 H, -4.102771, 1.289287, -0.510759
 H, -2.687831, 0.863525, -1.490582
 C, -4.265363, -0.613216, -1.533572
 H, -5.023737, -1.025015, -0.862856
 H, -4.772786, -0.196251, -2.406718
 H, -3.612535, -1.423476, -1.86655
 H, -3.403935, -0.430741, 0.935902

$\left[\text{Zn(OAc)}(\text{EtOH})_2 \right]^+ (\text{EtOH})_2$
 Zn, -1.447998, -0.125213, 0.081476
 O, -2.894806, -1.683613, -0.282982
 O, -3.454463, 0.278716, 0.515584
 O, -0.566929, 1.017457, -1.370407
 O, 0.137976, -0.689822, 1.226126
 C, -3.790958, -0.890622, 0.136684
 C, -5.232652, -1.299339, 0.154803
 H, -5.73771, -0.868433, 1.018322
 H, -5.707396, -0.906511, -0.748521
 H, -5.325488, -2.383533, 0.156226
 C, 0.592238, -2.05641, 1.03188

C, 0.91486, -2.329058, -0.421857
 H, 1.689769, -1.649991, -0.785317
 H, 1.275628, -3.354333, -0.535974
 H, 0.023231, -2.20721, -1.043931
 H, 1.462438, -2.2052, 1.672069
 H, -0.218539, -2.687919, 1.389461
 H, 0.849603, -0.069803, 0.924833
 C, -1.265248, 2.23023, -1.756475
 C, -1.337892, 3.209164, -0.605143
 H, -1.916983, 4.087538, -0.899716
 H, -1.825148, 2.749056, 0.259491
 H, -0.338274, 3.540797, -0.314153
 H, -0.739422, 2.655062, -2.611622
 H, -2.254571, 1.906816, -2.074108
 H, 0.311448, 1.248272, -0.98511
 O, 1.712768, 1.231563, 0.15293
 C, 2.002379, 2.201253, 1.18042
 H, 2.425963, 3.094155, 0.716763
 H, 1.039841, 2.461653, 1.619681
 C, 2.938772, 1.626281, 2.224709
 H, 3.907617, 1.379334, 1.784234
 H, 3.102479, 2.356729, 3.020859
 H, 2.512311, 0.722537, 2.668114
 H, 2.54745, 0.93676, -0.281582
 O, 3.862057, 0.097337, -1.06829
 H, 4.511613, 0.568734, -1.610424
 C, 4.542952, -0.863762, -0.240426
 H, 5.344464, -0.365262, 0.308414
 H, 3.798186, -1.208931, 0.477049
 C, 5.080895, -2.016557, -1.063247
 H, 5.572331, -2.74364, -0.411858
 H, 4.270865, -2.519157, -1.596681
 H, 5.813332, -1.661324, -1.792581

$\left[\text{Zn(OAc)}_2 \right]$
 Zn, -0.000001, 0, -0.0037
 O, 1.799527, 0.913437, 0.615009
 O, -1.802727, 0.893171, -0.623718
 C, 2.445991, 0.013331, -0.005944
 C, -2.44599, -0.013332, -0.005935
 O, 1.802725, -0.893172, -0.623723
 O, -1.799523, -0.913437, 0.615014
 C, 3.94403, -0.005849, 0.012584
 C, -3.94403, 0.005849, 0.012583
 H, 4.26377, -0.739404, 0.757609
 H, 4.327571, -0.31968, -0.957552
 H, 4.340604, 0.969914, 0.285278
 H, -4.263782, 0.739623, 0.757385

H, -4.327554, 0.319407, -0.957649
H, -4.340607, -0.969839, 0.285539
[Zn(OAc)₂(EtOH)]
Zn, 0.329854, -0.253127, -0.130427
O, -0.741824, 1.443597, -0.532787
O, -2.787612, -0.206666, -0.052522
O, 2.088169, -0.138064, 1.101804
O, 2.220864, -0.585589, -1.042284
O, -1.075338, -1.652275, -0.072664
C, 2.793442, -0.387616, 0.075276
C, -2.322894, -1.366414, 0.035213
C, -0.577707, 2.567719, 0.366434
H, 0.448551, 2.904718, 0.231454
H, -0.70316, 2.219526, 1.393547
C, -1.571422, 3.657651, 0.028491
H, -1.426356, 4.510896, 0.69548
H, -1.4376, 3.993455, -1.001907
H, -2.595373, 3.296252, 0.151778
H, -1.629815, 1.01869, -0.383172
C, 4.28743, -0.474735, 0.173857
H, 4.648079, 0.038499, 1.062966
H, 4.564001, -1.530612, 0.236517
H, 4.745376, -0.057196, -0.722348
C, -3.240738, -2.531783, 0.303047
H, -3.028916, -3.339567, -0.398781
H, -3.039042, -2.905651, 1.310242
H, -4.284102, -2.232145, 0.230767