

Supporting Information

Theoretical Study on the Co^{II}/Co^{III} and Co^{II}/Co^{IV} Catalytic Cycles in Co^{II}(salen)-Catalyzed Radical Fluorination with Various NF-Type Fluorinating Reagents

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Cramer-Truhlar correction for vibrational entropy terms

In this study, structural optimization procedure inherently employs the SMD implicit solvation model including vibrational analysis. According to the report by Cramer and Truhlar et al. in *J. Phys. Chem. B*, **2011**, *115*, 14556, they assert that the free energy obtained through such a computational method is appropriate, as statement in the article: "When molecular free energies are defined to include free energy contributions from nuclear motion, it may sometimes be more consistent with parametrization history to determine these contributions from gas-phase partition functions, but it is not 'incorrect' to employ instead partition functions for structures that are stationary points in solution."

Nevertheless, following the recommended practice, we have scaled all vibrational frequencies lower than 100 cm⁻¹ raised to 100 cm⁻¹ for the initial reaction of Co^{II}(salen) with Me₃NFPy⁺. This correction addresses the well-known breakdown of the harmonic oscillator model in the free energy calculation for low-frequency vibrational modes. The partition functions were subsequently recalculated to obtain the corrected vibrational entropy terms.

$$S_{vib,i} = R \left[\frac{x_i}{e^{x_i} - 1} - \ln(1 - e^{-x_i}) \right]; \text{ for frequency } v_i$$

$$\text{in which } x_i = \frac{hcv_i}{kT} \approx \frac{1.4388v_i}{T}; \frac{hc}{k} = 1.4388 \text{ (K}\cdot\text{cm)}; R = 1.987 \text{ cal}/(\text{mol}\cdot\text{K})$$

Based on the Cramer-Truhlar correction, the calculated relative free energies are in excellent agreement with original energy profile (Fig. S5). This are attributed to the fact that the number of vibrational modes below 100 cm⁻¹ in the structures of the bimolecular reactions (e.g., ²TS1, ²INT1) does not exhibit an unreasonable increase. Therefore, we conclude that the findings of this study are reliable.

Intermediate	S _{vib} in out file (cal/mol • K)	Corrected S _{vib} (cal/mol • K)	T Δ S(Kcal/mol)	Number of freq. < 100 cm ⁻¹
Co ^{II} (salen)	155.80	138.97	5.02	11
Me ₃ NFPy ⁺	32.57	26.70	1.75	1
² TS1	207.56	182.88	7.36	16
² INT1	212.91	186.31	7.93	17
Co ^{III} (salen)-F	161.72	144.38	5.16	11
Me ₃ NPy ⁺	30.67	27.03	1.09	3
[Co ^{IV} (salen)-F] ⁺	162.27	145.14	5.11	11
Me ₃ NPy	29.79	24.72	1.51	3

Analysis of Counterion Dissociation Behavior and Feasibility of Fluorine Transfer Reaction

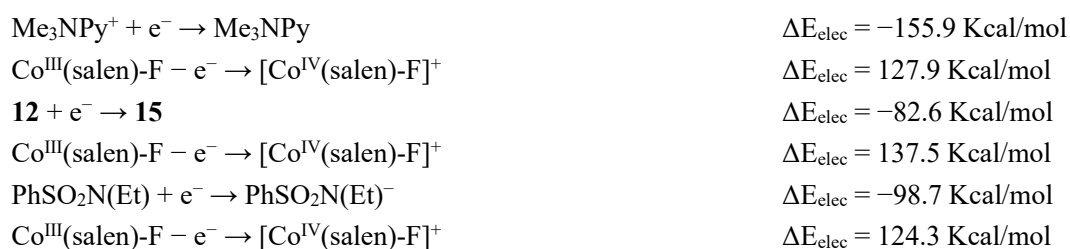
The counterions PF₆⁻ and OTf⁻ were also examined to understand their behavior in solution. The computed results are summarized in Table S3. The results show that regardless of the counterion, Me₃NFPy⁺ tends to dissociate in solution.

On the other hand, according to the experimental condition screening reported by Hiroya et al. in *Org. Lett.*, **2013**, *15*, 5158, the use of Me₃NFPy-OTf (i.e., **F2**) as a fluorinating reagent yielded 0% product. This experimental result indeed provides critical support for our study, further corroborating that the reaction likely proceeds via a benzenium fluorination pathway. In addition,

the process of fluorine transfer from PF_6^- or OTf^- anions to the benzenium ion was also computationally analyzed. The results show that the reaction with the OTf^- anion exhibits a high energy barrier of 26.6 kcal/mol, and the product formation free energy is 19.6 kcal/mol, indicating that are both kinetically and thermodynamically unfavorable (see Fig. S6). Although no experimental data are available for using $\text{Me}_3\text{NPy}\cdot\text{PF}_6$ as reagent, we believe that the reaction should be accessible if the counterion is PF_6^- .

Analyses of HOMO Eigenenergies, Orbital Configurations, and Electron Affinities of the fluorinating reagents at the Electronic Level

To further understand the electron affinity of the counterpart of different NF-type fluorinating reagents after fluorine transfer to $\text{Co}^{\text{II}}(\text{salen})$, the HOMO eigenenergies of Me_3NPy , N-tBu-amidyl anion (**15**) and $\text{PhSO}_2\text{N}(\text{Et})^-$, as well as the β -SOMO eigenenergies corresponding to single-electron loss, were examined. The HOMO and β -SOMO eigenenergies are -0.25128, -0.12151 and -0.16397 hartree and -0.23568, -0.12232 and -0.14521 hartree, respectively. According to Koopmans' theorem, the first ionization energy of a closed-shell molecule approximates the eigenenergy of its HOMO. Although DFT may introduce errors due to inaccuracies in the exchange–correlation functional, it is still evident that the electron affinity of Me_3NPy^+ is significantly greater than that of **12** and $\text{PhSO}_2\text{N}(\text{Et})$. This is because the HOMO of Me_3NPy is a π orbital delocalized on the pyridine ring, analogous to that of benzene, whereas the HOMOs of the other two counterparts of neutral reagents are localized on the amide moiety and even exhibit π -antibonding character with the phenyl ring of the benzyl group (see Fig. S8). Consequently, Me_3NPy^+ possesses the highest electron affinity. In addition, the electronic energy difference for each species upon gaining or losing an electron was also computationally analyzed, as listed below. Although the ligands and solvents differ in these $\text{Co}(\text{salen})\text{-F}$ systems, the electron binding energy is approximately ~ 130 kcal/mol, clearly indicating that Me_3NPy^+ is more capable to oxidize $\text{Co}^{\text{III}}(\text{salen})\text{-F}$.



The Non-innocent Behavior of the salen Ligand and Its Regulation of the Coordination Geometry of Cobalt Complexes

Due to the conjugation between the diimine moiety of the salen ligand and the phenolate groups, the structure is essentially slightly rigid. Consequently, $\text{Co}^{\text{II}}(\text{salen})$ adopts a nearly square-planar coordination geometry (Table S6). To further understand how the salen ligand modulates charge distribution during fluorination and oxidation, a detailed analysis was performed on the cobalt d-orbital electron populations, spin densities, and several key geometric parameters for $\text{Co}^{\text{II}}(\text{salen})$ versus $[\text{Co}^{\text{III}}(\text{salen})]^+$, as well as for $\text{Co}^{\text{III}}(\text{salen})\text{-F}$ versus $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$. According to the ligand-field theory, the d-orbitals in a square-planar coordination field should split as shown in Table S6. Because the d_{xy} orbital is sigma antibonding (σ^*), it contains few electrons and lies at a higher energy, rendering $\text{Co}^{\text{II}}(\text{salen})$ a low-spin doublet state. The dx^2-y^2 orbital, located between all Co–

X (X = O, N) bonds, is non-bonding and therefore lowest in energy; it is always almost occupied by approximately two electrons from the cobalt d^7 configuration. Since the ONNO coordination of salen is not equivalent, the symmetric dz^2 and dxz orbitals form pi antibonding orbitals (π^*) that are higher in energy than the dyz π^* orbital, although all π^* orbitals lie close in energy. The electron populations and spin densities listed in Table S6 reveal that the spin densities on the dz^2 and dxz orbitals increase and the total electron count decreases when CoII(salen) loses one electron to form $[\text{Co}^{\text{III}}(\text{salen})]^+$, while the square-planar coordination geometry remains largely unchanged. Combined with the data in Table S7, it can be seen that upon oxidation to $[\text{Co}^{\text{III}}(\text{salen})]^+$, the salen ligand itself carries only a small net positive charge but accommodates a portion of the spin density, which is primarily localized on the oxygen atoms and carbons (not listed in Table S7) of phenolic moieties. Because the antibonding π^* character formed by dxz orbital loses electron density, the Co–O bond lengths shorten slightly.

On the other hand, when an F atom coordinates at the axial position to form $\text{Co}^{\text{III}}(\text{salen})\text{-F}$, although the dz^2 orbital becomes a sigma antibonding (σ^*) orbital, the pi antibonding (π^*) orbitals (dxz , dyz) remain close in energy to the dz^2 σ^* orbital due to the presence of the F atom with lone pairs electrons. Comparing the d-orbital electron populations and spin densities of $\text{Co}^{\text{II}}(\text{salen})$ and $\text{Co}^{\text{III}}(\text{salen})\text{-F}$, it can be seen that the change in the dxz orbital is minimal, whereas the electron population in the dz^2 orbital further decreases and its spin density increases. Furthermore, upon oxidation to $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$, the electron loss clearly occurs from the dyz orbital resulting in quartet state. Furthermore, comparing the structures of $\text{Co}^{\text{III}}(\text{salen})\text{-F}$ and $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$ with that of $\text{Co}^{\text{II}}(\text{salen})$ reveals that the $\angle(\text{N}2\text{-Co-O}1)$ angle decreases significantly, and the dihedral angle $\text{D}(\text{O}1\text{-N}1\text{-N}2\text{-O}2)$ gradually increases. Upon the formation of $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$, the bond lengths of $d(\text{Co-O}2)$ and $d(\text{Co-N}2)$ are further elongated. This indicates that the coordination geometry tends to shift toward a trigonal bipyramidal rather than a square pyramidal structure, although the inherent rigidity of the salen ligand prevents a more substantial distortion. Combining the analyses of charge distribution and spin density on the ligand reveal that in both $\text{Co}^{\text{III}}(\text{salen})\text{-F}$ and $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$, the spin density on the salen ligand is no longer close to zero. Similar to the case in $[\text{Co}^{\text{III}}(\text{salen})]^+$, a greater proportion of the unpaired electron density is delocalized onto the phenolic moieties. This disrupts the conjugation between the imine and phenolate groups, allowing rotation around the connecting C–C bond and thereby facilitating the adoption of a trigonal bipyramidal geometry. These results indicate that the salen ligand is a non-innocent ligand since the phenolate groups can accommodate spin density to adopt the trigonal bipyramidal geometry slightly.

Possible competitive pathways for the fluorination reaction of benzyl radical **17**

A potential competitive pathway for the fluorination of benzyl radical **17**, namely the fluorination reaction pathway involving carbocation **19**, was also computationally analyzed (see Fig. S15 for details). The results show that although the dissociation of intermediate $^4\text{INT11}$ to form $[\text{Co}^{\text{II}}(\text{salen})\text{-F}]^-$ and the nitrogen cation $\text{PhSO}_2\text{N}^+(\text{Et})$ is slightly lower in Gibbs free energy of formation (by approximately 0.7 kcal/mol, pink pathway) compared to the formation of $[\text{Co}^{\text{III}}(\text{salen})\text{-F}]^+$ and $\text{PhSO}_2\text{N}^+(\text{Et})$, the transition state $^1\text{TS25}$ for generating carbocation **19** in the subsequent reaction pathway has an energy barrier approximately 25.8 kcal/mol higher than that of transition state $^2\text{TS22}$ for generating benzyl radical **17**. This indicates that, kinetically, the radical reaction pathway remains more favorable.

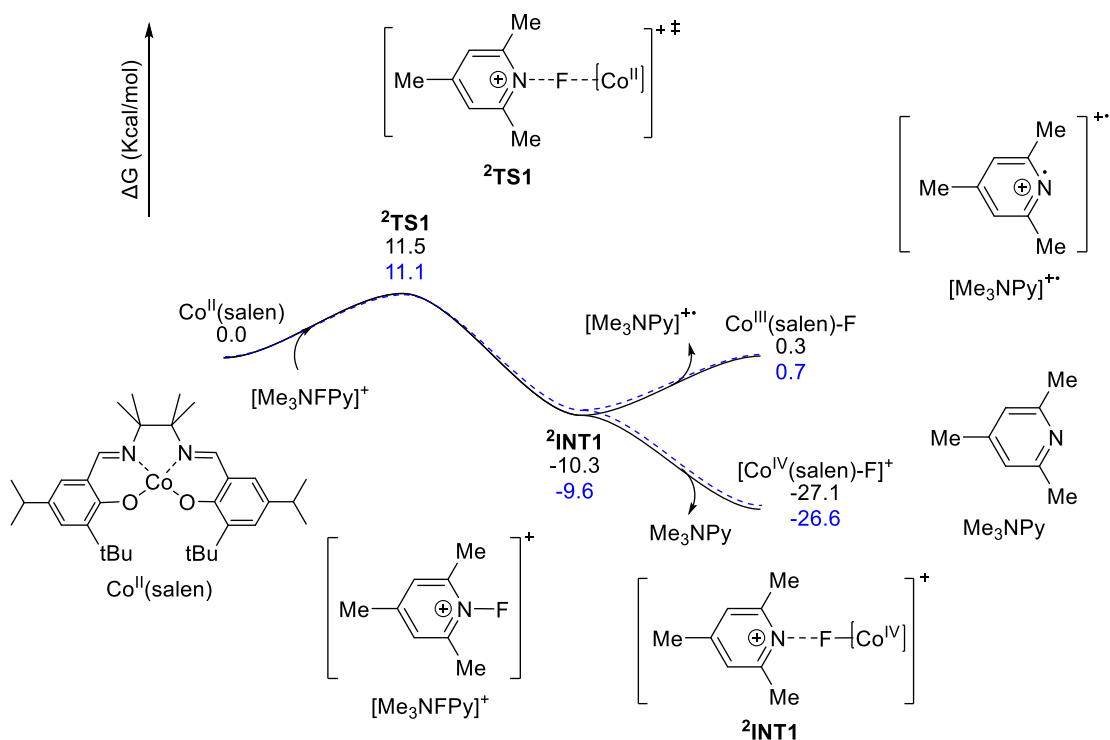


Fig. S1. Free energy profile of $\text{Co}^{\text{II}}(\text{salen})$ reacting with the fluorinating reagent $[\text{Me}_3\text{NFPy}]^+$ calculated by using B3LYP-D3 (black line) and M06 (blue dash line) functionals.

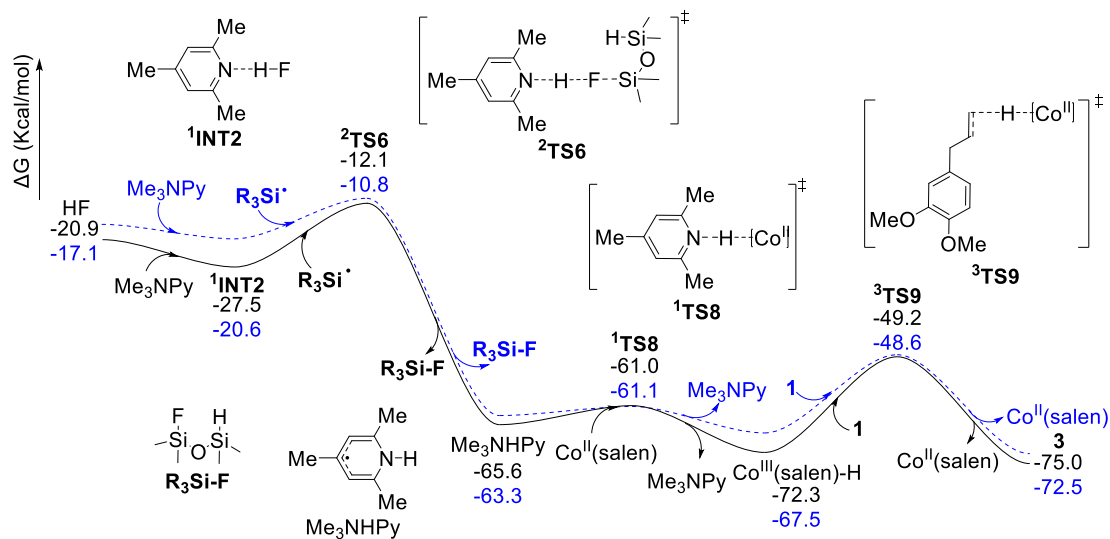


Fig. S2. Free energy profile of the formation pathway of alkyl radical **3** calculated by using B3LYP-D3 (black line) and M06 (blue dash line) functionals.

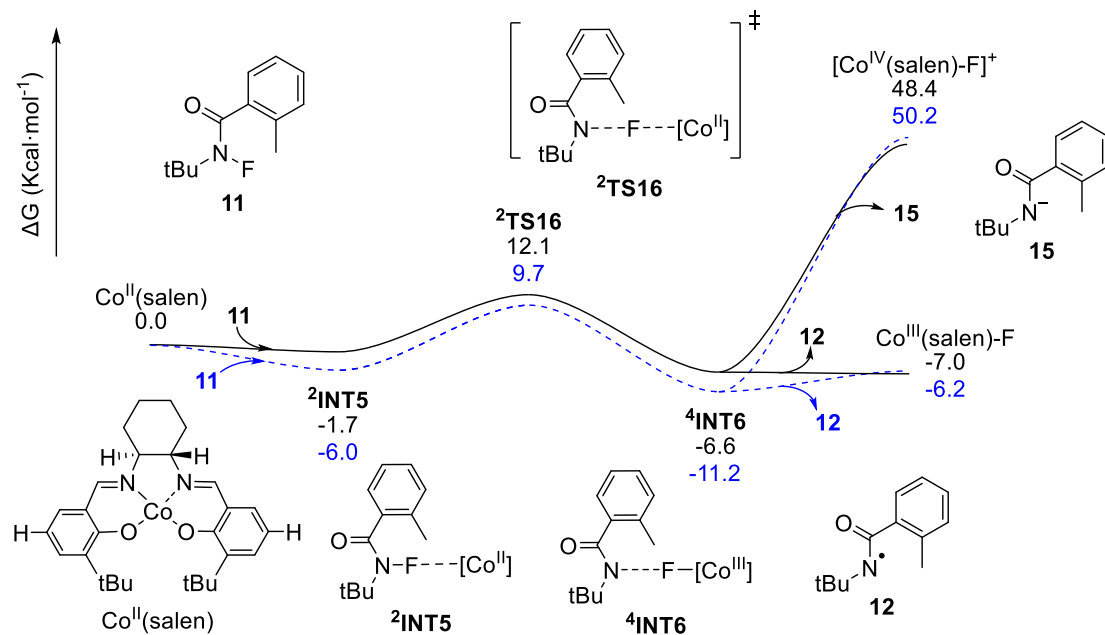


Fig. S3. Free energy profile of $\text{Co}^{\text{II}}(\text{salen})$ reacting with the fluorinating reagent N-tert-butylfluoramide calculated by using B3LYP-D3 (black line) and M06 (blue dash line) functionals.

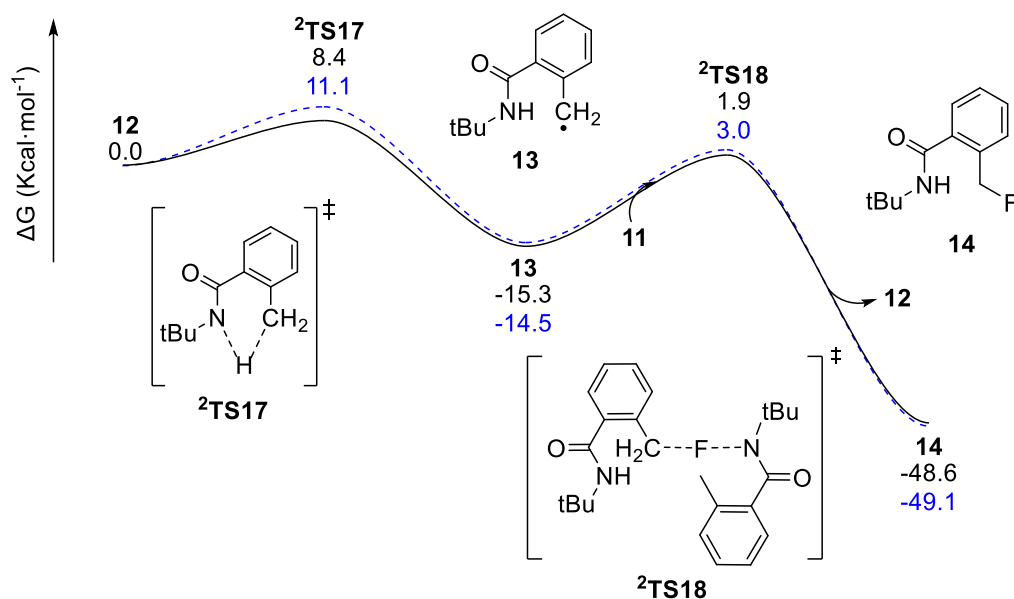


Fig. S4. Free energy profile of the formation pathway of benzyl radical **13** via 1,5-HAT and the subsequent fluorination reaction pathway calculated by using B3LYP-D3 (black line) and M06 (blue dash line) functionals.

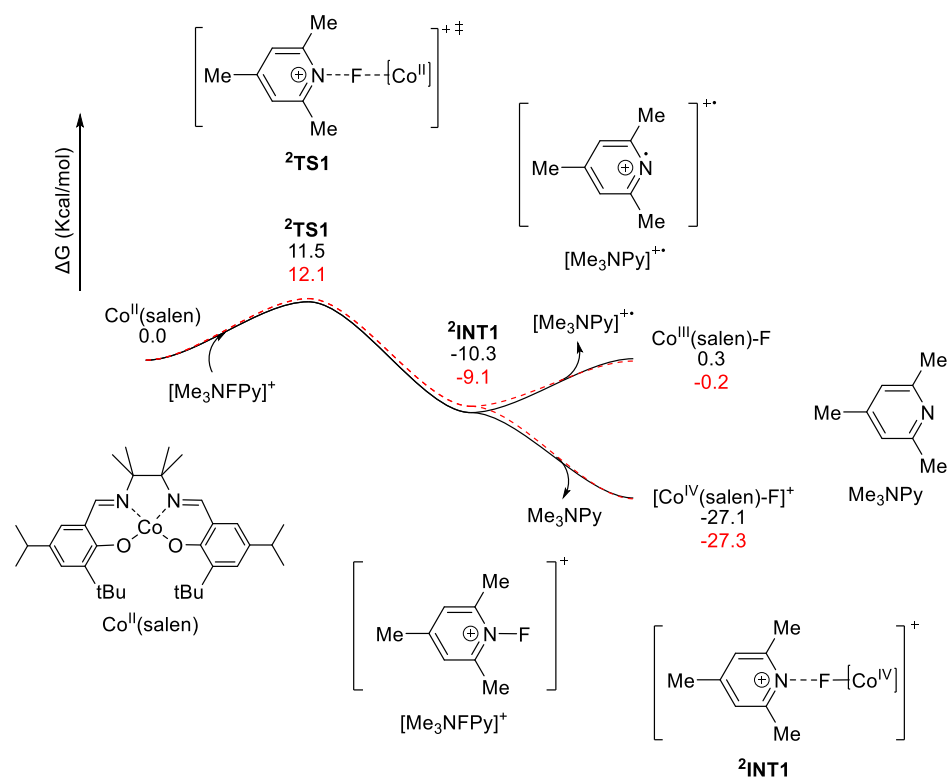


Fig. S5. Relative free energies calculated with Cramer-Truhlar correction (red dash line) for the initial reaction of $\text{Co}^{\text{II}}(\text{salen})$ with Me_3NFPy^+ .

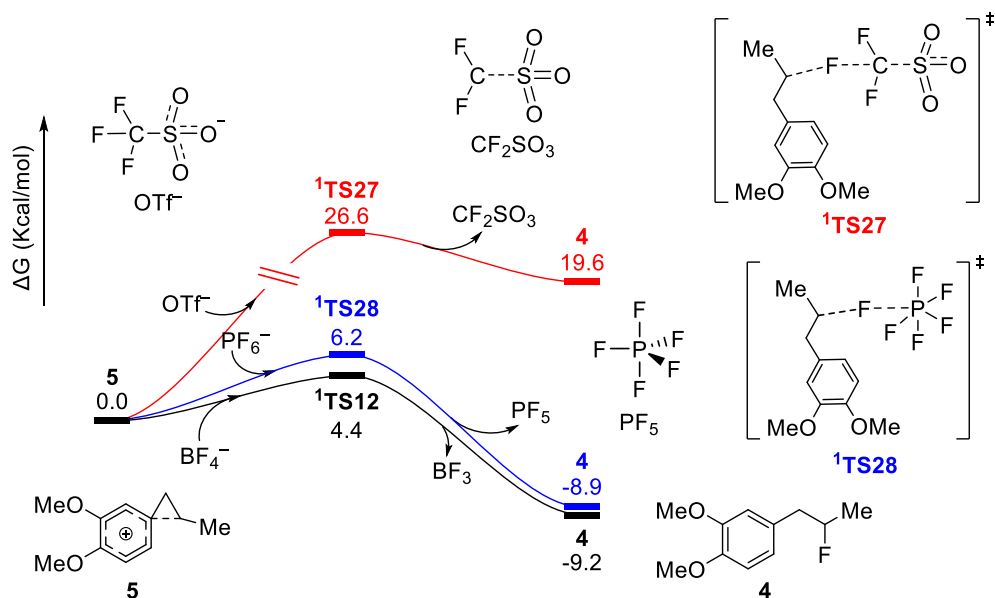


Fig. S6. Free energy profile of benzenium fluorination with BF_4^- , PF_6^- and OTf^- anions.

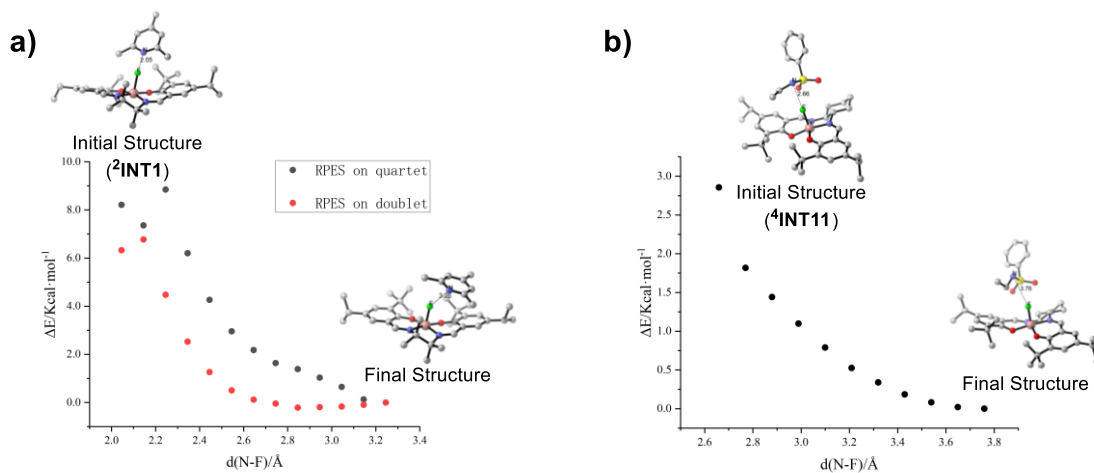


Fig. S7. RPESs of the counterpart of fluorinating reagent (a) Me_3NPy and (b) $\text{PhSO}_2\text{N}(\text{Et})$ molecules moving away from the $\text{Co}(\text{salen})\text{-F}$ cluster.

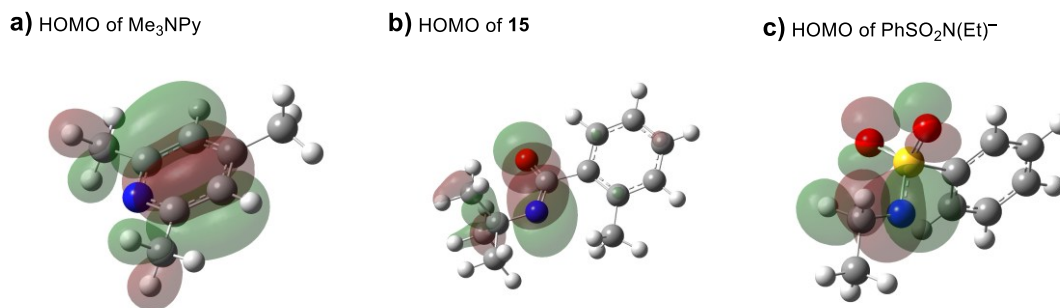


Fig. S8. Isosurfaces of HOMO (a) Me_3NPy , (b) amidyl anion **15** and (c) $\text{PhSO}_2\text{N}(\text{Et})^-$ at 0.025 of isovalue.

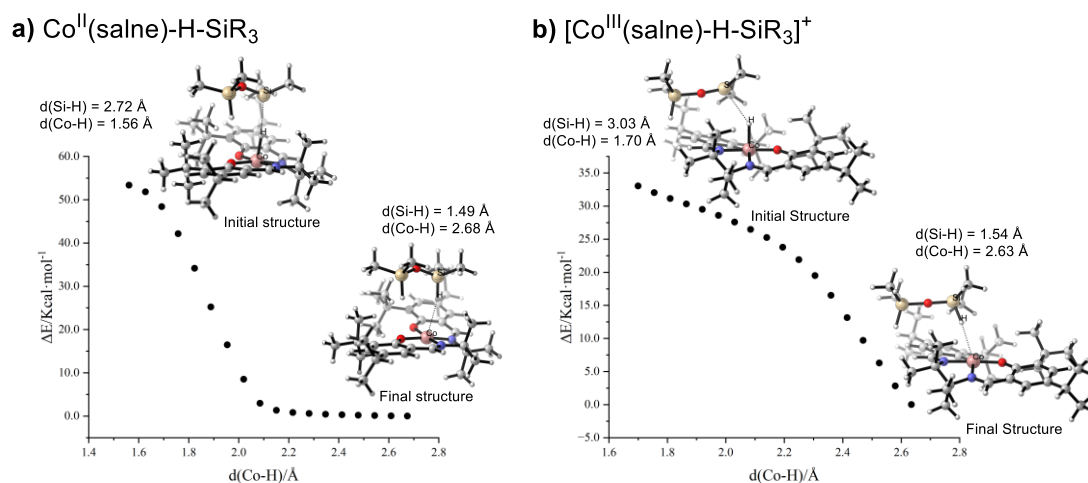


Fig. S9. The IRC paths of (a) $\text{Co}^{\text{II}}(\text{salen})\text{-H-SiR}_3$ and (b) $[\text{Co}^{\text{III}}(\text{salen})\text{-H-SiR}_3]^+$ corresponding to the intrinsic reaction potential surfaces of $\text{Co}^{\text{II}}(\text{salen})$ and $[\text{Co}^{\text{III}}(\text{salen})]^+$ directly reacting with silane.

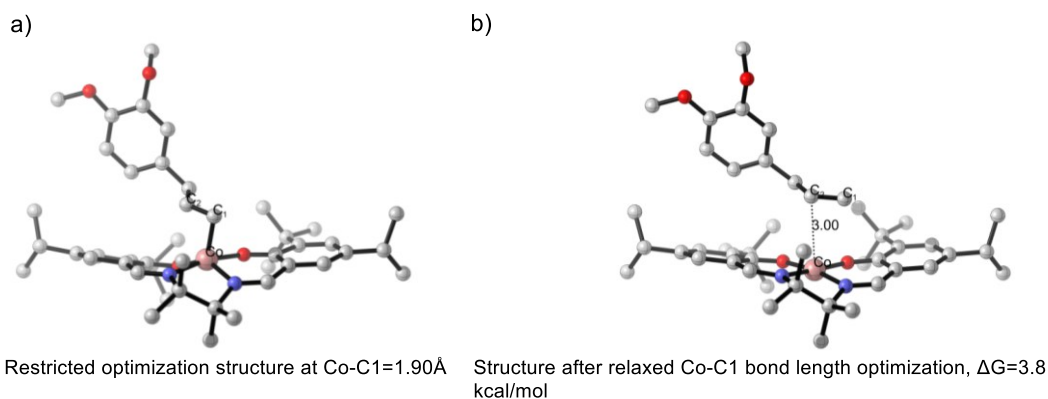


Fig. S10. a) Structure of the alkene coordinated to $\text{Co}^{\text{II}}(\text{salen})$ obtained from a constrained optimization fixing the Co-C1 bond length at 1.90 Å; b) Structure obtained after full unconstrained relaxation optimization of the entire molecule.

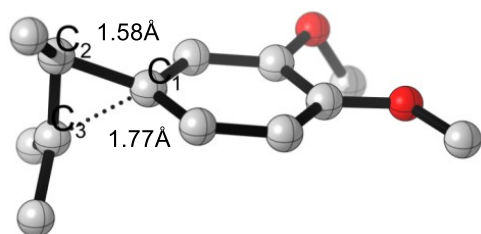


Fig. S11. Optimized structure of benzenium ion **8**.

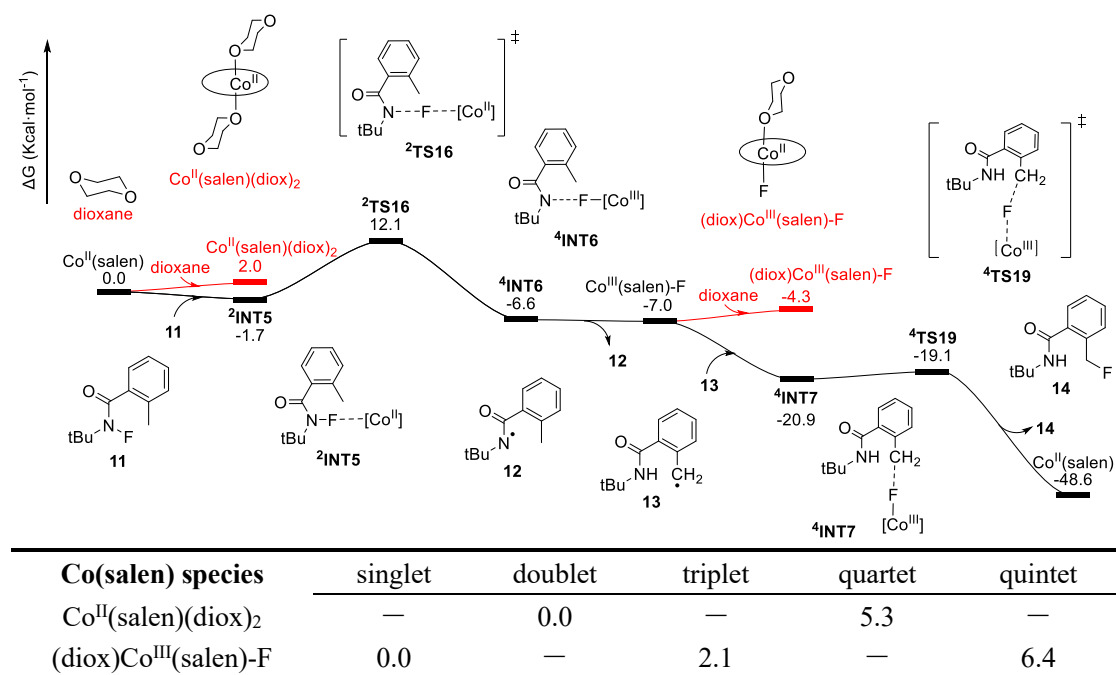


Fig. S12. Relative free energy diagram of the axial coordinated $\text{Co}(\text{salen})$ species by solvent 1,4-dioxane.

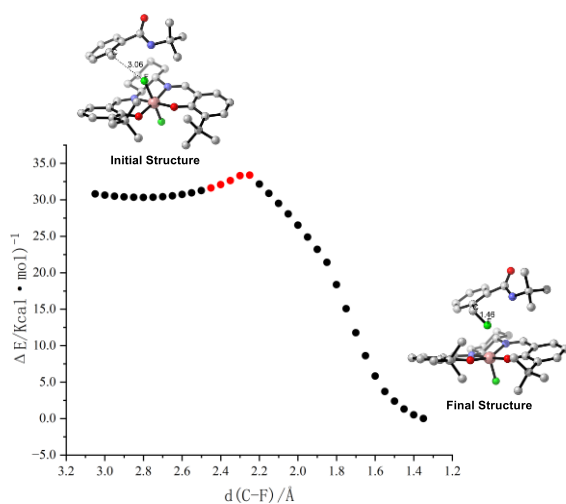


Fig. S13. IRC path scan for the process of fluorine atom abstraction from $\text{Co}^{\text{IV}}(\text{salen})\text{-F}_2$ by benzyl radical **13** in the liquid phase. The results indicate a significantly low energy barrier at the saddle point for this reaction.

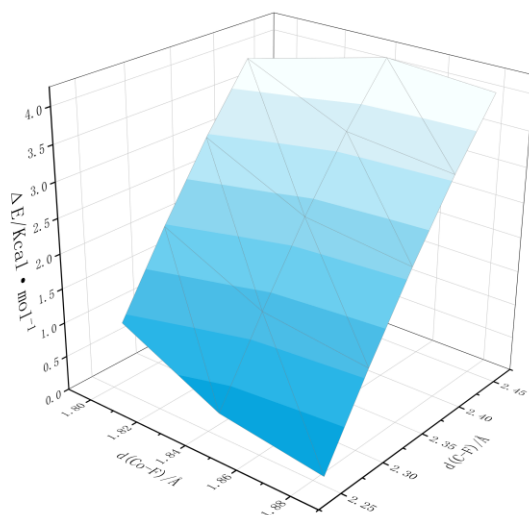


Fig. S14. 2D-RPES scan conducted on the red path segment shown in Fig. S13. The computational results indicate that although a transition state structure with a very small vibrational frequency may exist for this process, its thermodynamic and kinetic contributions can be considered negligible.

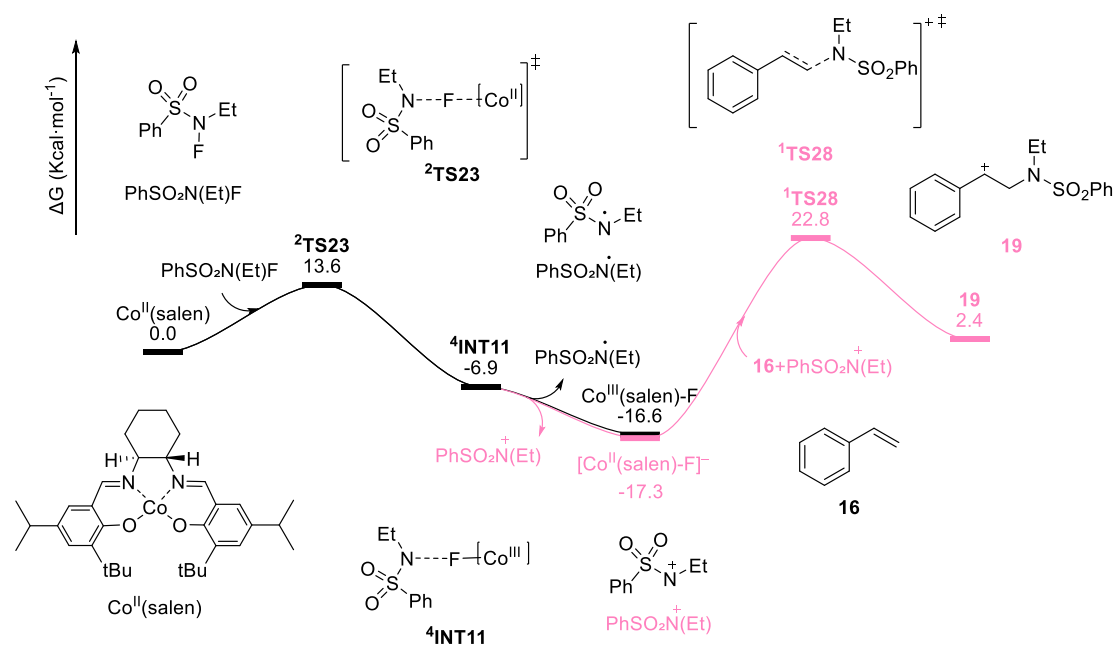


Fig. S15. Free energy profile for the ionic reaction pathway of Co^{II}(salen)-catalyzed fluorination of styrene **16**.

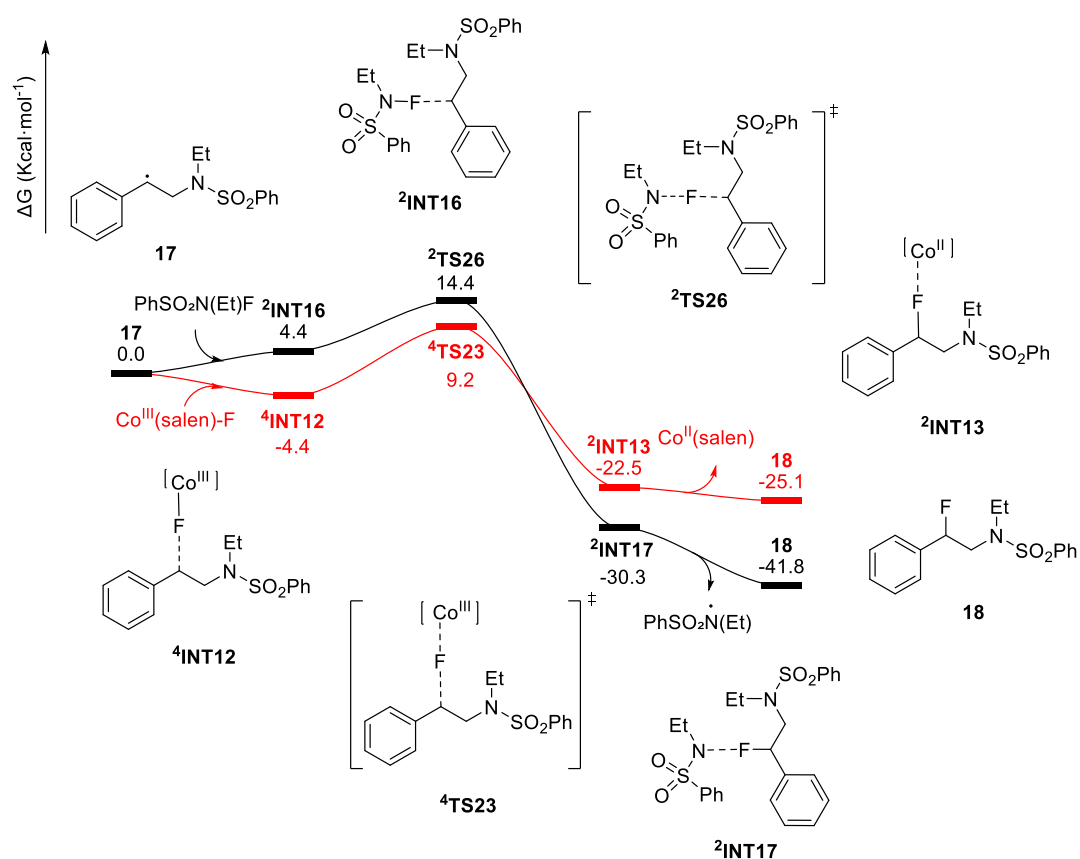


Fig. S16. Free energy profile for the two fluorination reaction pathways of benzyl radical **17**.

Table S1. The relative free energies of $\text{Co}^{\text{II}}(\text{salen})$, $[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$, $[\text{Co}^{\text{IV}}(\text{salen})\text{-alkyl}]^+$ and $\text{Co}^{\text{IV}}(\text{salen})\text{-F}_2$ on each spin state.

Co(salen) species	doublet	quartet	sextet
$\text{Co}^{\text{II}}(\text{salen})$	0.0	4.1	-
$[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$	1.9	0.0	1.1
$[\text{Co}^{\text{IV}}(\text{salen})\text{-alkyl}]^+$	0.0	7.6	18.9
$\text{Co}^{\text{IV}}(\text{salen})\text{-F}_2$	0.0	15.9	14.3

Table S2. The relative free energies of $[\text{Co}^{\text{III}}(\text{salen})]^+$, $\text{Co}^{\text{III}}(\text{salen})\text{-F}$, $\text{Co}^{\text{III}}(\text{salen})\text{-H}$ and $\text{Co}^{\text{III}}(\text{salen})\text{-alkyl}$ on each spin state.

Co(salen) species	singlet	triplet	quintet
$[\text{Co}^{\text{III}}(\text{salen})]^+$	16.5	0.0	8.7
$\text{Co}^{\text{III}}(\text{salen})\text{-F}$	7.4	0.0	2.0
$\text{Co}^{\text{III}}(\text{salen})\text{-H}$	0.0	14.0	24.8
$\text{Co}^{\text{III}}(\text{salen})\text{-alkyl}$	0.0	6.6	10.9

Table S3. Dissociation energies of fluorinating reagents $\text{Me}_3\text{NFPy}\cdot\text{BF}_4$, $\text{Me}_3\text{NFPy}\cdot\text{OTf}$ and $\text{Me}_3\text{NFPy}\cdot\text{PF}_6$.

	$\Delta G / \text{Kcal}\cdot\text{mol}^{-1}$
$\text{Me}_3\text{NFPy}\cdot\text{BF}_4 \rightarrow \text{Me}_3\text{NFPy}^+ + \text{BF}_4^-$	-0.9
$\text{Me}_3\text{NFPy}\cdot\text{OTf} \rightarrow \text{Me}_3\text{NFPy}^+ + \text{OTf}^-$	-3.3
$\text{Me}_3\text{NFPy}\cdot\text{PF}_6 \rightarrow \text{Me}_3\text{NFPy}^+ + \text{PF}_6^-$	-3.1

Table S4. The NBO charges on the counterpart of two different fluorinating reagents and on the $\text{Co}(\text{salen})\text{-F}$.

Intermediate	²TS1	²INT1	6th point	Final point at doublet/quartet
Me_3NPy	1.01	0.69	0.01	0.01 / 0.00
$[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$	-0.01	0.31	0.99	0.99 / 1.00
	²TS21	⁴INT11	6th point	Final point
$\text{PhSO}_2\text{N}(\text{Et})\cdot$	0.10	-0.01	-0.03	-0.02
$\text{Co}^{\text{III}}(\text{salen})\text{-F}$	-0.10	0.01	0.03	0.02

Table S5. The spin densities on the counterpart of two different fluorinating reagents and on the $\text{Co}(\text{salen})\text{-F}$.

Intermediate	²TS1	Final point of ^{2,4}INT1	²TS21	Final point of ⁴INT11
Me_3NPy	-0.16	0.00 / 0.00	-	-
$\text{PhSO}_2\text{N}(\text{Et})\cdot$	-	-	-0.32	1.00
$\text{Co}(\text{salen})\text{-F}$	1.16	1.00 / 3.00	1.32	2.00

Table S6. Electronic populations and spin densities on d-orbital of Co atom in each Co(salen) species, and geometrical parameters as well.

Geometrical parameters	Co ^{II} (salen)	[Co ^{III} (salen)] ⁺	Co ^{III} (salen)-F	[Co ^{IV} (salen)-F] ⁺
d(Co–O1/Co–O2)	1.87/1.87	1.86/1.86	1.87/1.87	1.85/1.91
d(Co–N1/Co–N2)	1.88/1.88	1.88/1.88	1.92/1.93	1.89/1.96
d(Co–F)	–	–	1.87	1.84
∠(N1–Co–O2)	170.03	173.46	173.36	175.08
∠(N2–Co–O1)	170.02	173.46	149.36	143.32
D(O1–N1–N2–O2)	13.58	8.92	16.35	21.51

Electron populations / spin densities on d-orbital of Co	Co ^{II} (salen)	[Co ^{III} (salen)] ⁺	Co ^{III} (salen)-F	[Co ^{IV} (salen)-F] ⁺
<i>dxy</i>	0.75/0.04	0.83/0.09	0.96/0.17	0.97/0.17
<i>dz²</i>	1.66/0.29	1.08/0.90	1.23/0.71	1.30/0.61
<i>dxz</i>	1.37/0.61	1.64/0.35	1.36/0.62	1.51/0.46
<i>dyz</i>	1.87/0.04	1.94/0.01	1.83/0.12	1.59/0.38
<i>dx²-y²</i>	1.97/0.01	1.97/0.02	1.91/0.07	1.94/0.04

Table S7. Total charges and spin densities of selected atom and salen moiety in Co^{II}(salen), [Co^{III}(salen)]⁺, Co^{III}(salen)-F, and [Co^{IV}(salen)-F]⁺

Total charges / spin densities	Co	salen	F	O1	O2	N1	N2
Co ^{II} (salen)	<u>0.74 /</u> 1.00	<u>-0.74 /</u> 0.00	–	<u>-0.64 /</u> 0.01	<u>-0.64 /</u> 0.01	<u>-0.44 /</u> 0.00	<u>-0.44 /</u> 0.00
[Co ^{III} (salen)] ⁺	<u>0.96 /</u> 1.40	<u>0.04 /</u> 0.60	–	<u>-0.57 /</u> 0.13	<u>-0.57 /</u> 0.13	<u>-0.42 /</u> 0.04	<u>-0.42 /</u> 0.04
Co ^{III} (salen)-F	<u>0.94 /</u> 1.69	<u>-0.30 /</u> 0.13	<u>-0.64 /</u> 0.18	<u>-0.60 /</u> 0.09	<u>-0.57 /</u> 0.00	<u>-0.38 /</u> -0.02	<u>-0.43 /</u> 0.03
[Co ^{IV} (salen)-F] ⁺	<u>0.94 /</u> 1.66	<u>0.65 /</u> 1.14	<u>-0.59 /</u> 0.20	<u>-0.56 /</u> 0.15	<u>-0.46 /</u> 0.23	<u>-0.36 /</u> -0.04	<u>-0.39 /</u> 0.10

Table S8. Electronic potential energies and correction to zero point energies, thermal energies, enthalpies, free energies (in Hartree) and imaginary frequencies (cm^{-1}) of optimized structures calculated at the B3LYP-D3/Def2-TZVP (SMD-custom solvent-dielectric constant $\epsilon=9.2$) // B3LYP-D3/Def2-SVP (SMD-custom solvent-dielectric constant $\epsilon=9.2$).

Structure	$E_{0,\text{Def2-TZVP}}$	$E_{0,\text{Def2-SVP}}$	$c\text{ZPE}_{298}$	$c\text{U}_{298}$	$c\text{H}_{298}$	$c\text{G}_{298}$	G	Imaginary Frequency
$\text{Co}^{\text{II}}(\text{salen})$	-2969.355771	-2967.448958	0.775097	0.816557	0.817502	0.703364	-2968.652407	
$\text{R}_3\text{Si-H}$	-815.3897199	-814.8970932	0.168236	0.181054	0.181999	0.128373	-815.2613469	
$\text{R}_3\text{Si}\cdot$	-814.7318677	-814.2407919	0.159001	0.17174	0.172684	0.118596	-814.6132717	
$\text{Co}^{\text{III}}(\text{salen})\text{-H}$	-2969.925553	-2968.016821	0.784083	0.825458	0.826403	0.71384	-2969.211713	
$[\text{Me}_3\text{NFPy}]^{++}$	-466.0403106	-465.5193171	0.1749	0.18526	0.186204	0.137308	-465.9030026	
$^2\text{TS1}$	-3435.402013	-3432.982817	0.950239	1.003332	1.004276	0.864855	-3434.537158	-1027.855
$^2\text{INT1}$	-3435.435383	-3433.015859	0.950656	1.004609	1.005553	0.863597	-3434.571786	
$\text{Co}^{\text{III}}(\text{salen})\text{-F}$	-3069.243091	-3067.210232	0.777709	0.820603	0.821547	0.704169	-3068.538922	
$[\text{Me}_3\text{NPy}]^+$	-366.1474339	-365.7493791	0.16861	0.178719	0.179663	0.131463	-366.0159709	
$[\text{Co}^{\text{IV}}(\text{salen})\text{-F}]^+$	-3069.039208	-3067.008004	0.778337	0.821361	0.822305	0.704395	-3068.334813	
Me_3NPy	-366.3971434	-365.9957758	0.169846	0.179568	0.180512	0.133392	-366.2637514	
$^4\text{TS2}$	-3884.416	-3881.903041	0.944827	1.001741	1.002685	0.854235	-3883.561765	-1029.32
$[\text{Co}^{\text{III}}(\text{salen})]^+$	-2969.174484	-2967.269191	0.776377	0.817808	0.818752	0.704201	-2968.470283	
HF	-100.4955729	-100.3578482	0.009194	0.011555	0.012499	-0.007224	-100.5027969	
R_3Si^+	-814.5849497	-814.0951108	0.16035	0.173011	0.173955	0.121171	-814.4637787	
1	-578.2462855	-577.6031919	0.225743	0.239159	0.240104	0.184329	-578.0619565	
2	-578.0365885	-577.3968095	0.226578	0.239947	0.240891	0.185411	-577.8511775	
$^3\text{TS3}$	-3548.14989	-3545.607713	1.00511	1.062081	1.063025	0.913161	-3547.236729	-671.1828
3	-578.815709	-578.1730367	0.233809	0.248274	0.249218	0.190164	-578.625545	

²TS4	-1393.409248	-1392.282047	0.394674	0.421354	0.422298	0.336346	-1393.072902	-653.9432
⁴TS5	-3648.065193	-3645.40229	1.011468	1.070245	1.07119	0.918347	-3647.146846	-181.9567
4	-678.7708369	-678.0040887	0.241682	0.256265	0.25721	0.19883	-678.5720069	
¹INT2	-466.9196425	-466.386344	0.182632	0.194419	0.195363	0.142662	-466.7769805	
²TS6	-1281.651613	-1280.640047	0.343345	0.368157	0.369102	0.285867	-1281.365746	-110.8474
R₃Si-F	-914.7601416	-914.1365615	0.163016	0.176706	0.177651	0.121402	-914.6387396	
Me₃NHPy	-366.954612	-366.5546701	0.179052	0.189431	0.190375	0.14235	-366.812262	
²TS7	-945.1746391	-944.1353108	0.401107	0.425699	0.426643	0.340752	-944.8338871	- 2186.2055
¹TS8	-3336.329134	-3334.027538	0.954152	1.005844	1.006788	0.871725	-3335.457409	-876.9353
5	-578.6539964	-578.0137202	0.238554	0.251902	0.252846	0.199212	-578.4547844	
BF₄⁻	-424.8200414	-424.2828807	0.014417	0.01876	0.019704	-0.013172	-424.8332134	
¹INT3	-1003.493094	-1002.328227	0.254192	0.273796	0.27474	0.204748	-1003.288346	
¹TS12	-1003.48464	-1002.319426	0.253125	0.272186	0.27313	0.203705	-1003.280935	-168.1318
¹INT4	-1003.496243	-1002.33689	0.255244	0.274913	0.275857	0.203272	-1003.292971	
BF₃	-324.7168659	-324.316148	0.012329	0.015842	0.016787	-0.01383	-324.7306959	
³TS10	-3548.188335	-3545.649141	1.013328	1.068913	1.069857	0.926881	-3547.261454	-102.4296
Co^{III}(salen)-alkyl	-3548.210627	-3545.673227	1.017241	1.072178	1.073122	0.933807	-3547.27682	
[Co^{IV}(salen)-alkyl]⁺	-3548.033926	-3545.496585	1.017647	1.072893	1.073837	0.933289	-3547.100637	
²TS11	-3972.861931	-3969.805261	1.030534	1.091944	1.092888	0.936922	-3971.925009	-128.7074
¹TS13	-1003.475912	-1002.31114	0.253401	0.27241	0.273354	0.204151	-1003.271761	-297.1565
6	-657.4746866	-656.747797	0.290394	0.307199	0.308143	0.24561	-657.2290766	
7	-657.4746866	-656.747797	0.290394	0.307199	0.308143	0.24561	-657.2290766	
8	-657.3208869	-656.5964782	0.293532	0.310175	0.311119	0.250285	-657.0706019	
¹TS14	-1082.147708	-1080.900272	0.309116	0.330874	0.331818	0.257403	-1081.890305	-172.5981

9	-757.4302491	-756.5794404	0.297907	0.314984	0.315928	0.253591	-757.1766581	
¹TS15	-1082.159901	-1080.912003	0.308595	0.330358	0.331302	0.256887	-1081.903014	-101.3973
10	-757.4367735	-756.5855644	0.297393	0.314584	0.315529	0.252737	-757.1840365	
OTf⁻	-961.9405676	-961.0324882	0.027136	0.034336	0.03528	-0.005538	-961.9461056	
¹TS27	-1540.571471	-1539.038142	0.266237	0.288231	0.289175	0.212942	-1540.358529	-232.5095
CF₂SO₃	-861.7866824	-861.0106925	0.022654	0.029874	0.030818	-0.01092	-861.7976024	
PF₆⁻	-941.1008284	-940.1828738	0.01932	0.025444	0.026388	-0.007914	-941.1087424	
¹TS28	-1519.760249	-1518.215947	0.25816	0.279014	0.279959	0.206577	-1519.553672	-173.4015
PF₅	-840.9920903	-840.1998001	0.01633	0.021926	0.02287	-0.013587	-841.0056773	

Calculated by M06 functional at the same level of basis sets.

Co^{II}(salen)	-2967.975825	-2966.069115	0.769331	0.810999	0.811943	0.697512	-2967.278313	
R₃Si-H	-815.1294902	-814.641064	0.167544	0.180298	0.181243	0.128757	-815.0007332	
R₃Si[·]	-814.4708732	-813.9848705	0.158287	0.170926	0.17187	0.119083	-814.3517902	
Co^{III}(salen)-H	-2968.539269	-2966.630579	0.777718	0.819407	0.820352	0.70701	-2967.832259	
[Me₃NPy]⁺	-465.6997583	-465.1815921	0.174389	0.184493	0.185437	0.139363	-465.5603953	
²TS1	-3433.679871	-3431.262867	0.942827	0.995944	0.996888	0.858879	-3432.820992	-1157.744
²INT1	-3433.710663	-3431.293358	0.94262	0.996651	0.997595	0.856708	-3432.853955	
Co^{III}(salen)-F	-3067.827214	-3065.801668	0.771887	0.815007	0.815951	0.697457	-3067.129757	
[Me₃NPy]⁺	-365.8394536	-365.4405407	0.167737	0.177744	0.178688	0.131641	-365.7078126	
[Co^{IV}(salen)-F]⁺	-3067.621989	-3065.595926	0.772089	0.815284	0.816228	0.698594	-3066.923395	
Me₃NPy	-366.0909465	-365.6924382	0.168952	0.178688	0.179632	0.13321	-365.9577365	
[Co^{III}(salen)]⁺	-2967.788357	-2965.882652	0.769587	0.810544	0.811488	0.698112	-2967.090245	
HF	-100.4599744	-100.3304276	0.009499	0.01186	0.012804	-0.006905	-100.4668794	
¹INT2	-466.5736609	-466.0509059	0.182266	0.194023	0.194968	0.143431	-466.4302299	

²TS6	-1281.049723	-1280.048821	0.338859	0.363724	0.364668	0.283323	-1280.7664	-652.5723
R₃Si-F	-914.4676185	-913.8551759	0.162441	0.176004	0.176949	0.122564	-914.3450545	
Me₃NHPy	-366.6455248	-366.2481817	0.177838	0.188462	0.189406	0.140583	-366.5049418	
¹TS8	-3334.645372	-3332.341905	0.946525	0.998227	0.999172	0.865503	-3333.779869	-460.5247
1	-577.8072609	-577.1708119	0.224554	0.238038	0.238982	0.183357	-577.6239039	
³TS9	-3546.33425	-3543.794575	0.996996	1.054021	1.054965	0.907765	-3545.426485	-573.9224
3	-578.3757076	-577.739827	0.232879	0.247309	0.248253	0.189911	-578.1857966	

Table S9. Electronic potential energies and correction to zero point energies, thermal energies, enthalpies, free energies (in Hartree) and imaginary frequencies (cm⁻¹) of optimized structures calculated at the B3LYP-D3/Def2-TZVP (SMD-1,4-Dioxane) // B3LYP-D3/Def2-SVP (SMD-1,4-Dioxane).

Structure	E _{0,Def2-TZVP}	E _{0,Def2-SVP}	cZPE ₂₉₈	cU ₂₉₈	cH ₂₉₈	cG ₂₉₈	G	Imaginary Frequency
Co ^{II} (salen)	-2732.159806	-2730.5125	0.590773	0.621168	0.622113	0.531878	-2731.6279	
11	-696.9866456	-696.20919	0.258095	0.273225	0.274169	0.216334	-696.77031	
² INT5	-3429.171972	-3426.7572	0.850577	0.898041	0.898985	0.77105	-3428.4009	
² TS16	-3429.152362	-3426.7386	0.849395	0.896021	0.896965	0.773427	-3428.3789	-818.7907
⁴ INT6	-3429.178047	-3426.7614	0.848756	0.896396	0.897341	0.769272	-3428.4088	
Co ^{III} (salen)-F	-2832.044091	-2830.2692	0.592726	0.624785	0.625729	0.53128	-2831.5128	
12	-597.109084	-596.4533	0.253767	0.267819	0.268764	0.212452	-596.89663	
[Co ^{IV} (salen)-F] ⁺	-2831.8249	-2830.0521	0.592577	0.624817	0.625761	0.530742	-2831.2942	
15	-597.2407079	-596.5778	0.253691	0.267227	0.268171	0.213764	-597.02694	
² TS17	-597.0918202	-596.43745	0.248651	0.262038	0.262982	0.208647	-596.88317	-1581.2896
13	-597.1347618	-596.47899	0.254306	0.268186	0.26913	0.21377	-596.92099	
² TS18	-1294.115629	-1292.686775	0.51284	0.543277	0.544221	0.451721	-1293.663908	-653.8867
14	-697.0676339	-696.28874	0.261194	0.275867	0.276811	0.219855	-696.84778	
⁴ INT7	-3429.198115	-3426.7835	0.847641	0.895718	0.896662	0.766544	-3428.4316	
⁴ TS19	-3429.195302	-3426.7822	0.847014	0.894627	0.895571	0.766683	-3428.4286	-227.7637
² INT8	-3429.250187	-3426.8364	0.853869	0.900618	0.901563	0.776548	-3428.4736	
³ INT9	-3529.057304	-3526.5141	0.853172	0.902046	0.90299	0.771794	-3528.2855	
³ TS20	-3529.01956	-3526.4795	0.851691	0.89956	0.900504	0.774736	-3528.2448	-1017.3779
³ INT10	-3529.055441	-3526.5136	0.851676	0.900139	0.901083	0.773053	-3528.2824	
Co ^{IV} (salen)-F ₂	-2931.918199	-2930.017	0.595911	0.628705	0.62965	0.535183	-2931.383	

Calculated by M06 functional at the same level of basis sets.

Co ^{II} (salen)	-2730.995714	-2729.350531	0.586602	0.617133	0.618077	0.527802	-2730.467912	
11	-696.4805526	-695.7120544	0.256381	0.271721	0.272665	0.214318	-696.2662346	

²INT5	-3427.513044	-3425.104474	0.84509	0.892008	0.892952	0.769344	-3426.7437	
²TS16	-3427.486995	-3425.080039	0.842894	0.889424	0.890368	0.768249	-3426.718746	-800.9167
⁴INT6	-3427.517322	-3425.109219	0.842549	0.889881	0.890826	0.765261	-3426.752061	
Co^{III}(salen)-F	-2830.844561	-2829.079085	0.588712	0.620744	0.621688	0.52809	-2830.316471	
12	-596.6386999	-595.9867659	0.252143	0.266235	0.267179	0.211168	-596.4275319	
[Co^{IV}(salen)-F]⁺	-2830.623664	-2828.857333	0.588776	0.620863	0.621807	0.528038	-2830.095626	
15	-596.7707289	-596.1151759	0.251995	0.265709	0.266653	0.212215	-596.5585139	
²TS17	-596.6165831	-595.9670901	0.246766	0.260304	0.261249	0.206739	-596.4098441	-2075.836
13	-596.6618909	-596.0115326	0.25207	0.266203	0.267147	0.211175	-596.4507159	
²TS18	-1293.138633	-1291.721106	0.509319	0.539592	0.540536	0.449663	-1292.68897	-747.7865
14	-696.5629479	-695.7948502	0.259754	0.274506	0.27545	0.21844	-696.3445079	

Table S10. Electronic potential energies and correction to zero point energies, thermal energies, enthalpies, free energies (in Hartree) and imaginary frequencies (cm⁻¹) of optimized structures calculated at the B3LYP-D3/Def2-TZVP (SMD-EthylEthanoate) // B3LYP-D3/Def2-SVP (SMD-EthylEthanoate).

Structure	E _{0,Def2-TZVP}	E _{0,Def2-SVP}	cZPE ₂₉₈	cU ₂₉₈	cH ₂₉₈	cG ₂₉₈	G	Imaginary Frequency
Co ^{II} (salen)	-2968.166499	-2966.2636	0.757507	0.796733	0.797677	0.688119	-2967.47838	
PhSO ₂ N(Et)F	-1014.319944	-1013.4194	0.174622	0.187109	0.188053	0.13501	-1014.184934	
² TS21	-3982.486953	-3979.6974	0.93184	0.985047	0.985991	0.845297	-3981.641656	-1230.6473
⁴ INT11	-3982.516738	-3979.7237	0.931434	0.985575	0.986519	0.842483	-3981.674255	
Co ^{III} (salen)-F	-3068.056275	-3066.0246	0.759555	0.800428	0.801372	0.687742	-3067.368533	
PhSO ₂ N·(Et)	-914.449467	-913.67166	0.169173	0.181152	0.182096	0.128163	-914.321304	
[Co ^{IV} (salen)-F] ⁺	-3067.858145	-3065.8278	0.760453	0.801418	0.802363	0.688483	-3067.169662	
PhSO ₂ N·(Et)	-914.6067209	-913.8172	0.169836	0.181405	0.182349	0.13023	-914.4764909	
16	-309.7824519	-309.44595	0.133345	0.140027	0.140971	0.102262	-309.6801899	
² TS22	-1224.23397	-1223.1268	0.305388	0.32424	0.325184	0.25534	-1223.97863	-218.3675
17	-1224.271627	-1223.1697	0.308611	0.327142	0.328086	0.259188	-1224.012439	
⁴ INT12	-4292.362046	-4289.2442	1.070189	1.131249	1.132193	0.974114	-4291.387932	
⁴ TS23	-4292.335815	-4289.2196	1.067009	1.128343	1.129287	0.969593	-4291.366222	-284.7155
² INT13	-4292.394608	-4289.2805	1.073752	1.134184	1.135128	0.977878	-4291.41673	
18	-1324.206971	-1322.9809	0.314632	0.333984	0.334928	0.26433	-1323.942641	
³ INT14	-4082.399036	-4079.4796	0.935968	0.99123	0.992174	0.846133	-4081.552903	
³ TS24	-4082.36688	-4079.4491	0.933932	0.988398	0.989342	0.847312	-4081.519568	-1067.0276
³ INT15	-4082.404537	-4079.4843	0.933968	0.9889	0.989845	0.847482	-4081.557055	
Co ^{IV} (salen)-F ₂	-3167.937074	-3165.7785	0.762205	0.804066	0.80501	0.690608	-3167.246466	
[Co ^{II} (salen)-F] ⁻	-3068.191823	-3066.1559	0.755391	0.797244	0.798188	0.681608	-3067.510215	

PhSO₂N⁺(Et)	-914.3143504	-913.54261	0.172232	0.183882	0.184826	0.133718	-914.1806324	
¹TS25	-1224.055307	-1222.953	0.306253	0.324992	0.325936	0.258434	-1223.796873	-268.187
19	-1224.091251	-1222.99	0.310598	0.328911	0.329855	0.261841	-1223.82941	
²INT16	-2238.605016	-2236.6106	0.484655	0.517779	0.518723	0.41466	-2238.190356	
²TS26	-2238.587333	-2236.5911	0.482974	0.515821	0.516765	0.412977	-2238.174356	-715.9695
²INT17	-2238.661552	-2236.6677	0.485963	0.518904	0.519848	0.415851	-2238.245701	

Cartesian Coordinates of optimized Structures

Structure S1. Co^{II}(salen)

27 0.000043 0.899119 0.000415
8 -1.295777 -0.451937 0.099498
8 1.295745 -0.452032 -0.098749
7 -1.269198 2.274077 -0.225661
7 1.269362 2.274048 0.226074
6 -2.589105 -0.377307 0.046823
6 -3.384380 -1.574716 0.203296
6 -4.765495 -1.456399 0.116838
1 -5.374318 -2.353989 0.225741
6 -5.452511 -0.233836 -0.105887
6 -4.688688 0.908875 -0.235050
1 -5.176430 1.875685 -0.398612
6 -3.271026 0.868713 -0.160041
6 -2.558137 2.107961 -0.285474
1 -3.191063 2.988263 -0.449565
6 2.558335 2.107960 0.285128
1 3.191364 2.988286 0.448686
6 3.271141 0.868663 0.159584
6 4.688836 0.908814 0.233920
1 5.176675 1.875659 0.396979
6 5.452579 -0.233955 0.104752
6 4.765438 -1.456566 -0.117285
1 5.374187 -2.354208 -0.226174
6 3.384277 -1.574865 -0.203098
6 2.589106 -0.377396 -0.046645
6 -2.696070 -2.929109 0.464425
6 -1.896627 -2.853908 1.787223
1 -2.573027 -2.660211 2.636122
1 -1.144555 -2.056819 1.747565
1 -1.379797 -3.809640 1.974944
6 -1.746468 -3.273177 -0.706987
1 -0.964162 -2.514278 -0.815846
1 -2.309507 -3.343708 -1.652470
1 -1.260189 -4.246581 -0.528431
6 -3.711917 -4.078908 0.597022
1 -4.303047 -4.216707 -0.322445
1 -4.410200 -3.922005 1.434580
1 -3.173738 -5.020786 0.787979
6 2.695785 -2.929282 -0.463607
6 3.711482 -4.079226 -0.596155

1 4.302957 -4.216716 0.323137
1 4.409454 -3.922721 -1.434045
1 3.173145 -5.021130 -0.786539
6 1.746465 -3.272943 0.708159
1 0.964252 -2.513949 0.817054
1 2.309771 -3.343273 1.653498
1 1.260064 -4.246358 0.529995
6 1.896013 -2.854339 -1.786218
1 2.572249 -2.661100 -2.635352
1 1.144159 -2.057038 -1.746642
1 1.378882 -3.809996 -1.973485
6 0.642865 3.606630 0.457258
6 -0.642680 3.606686 -0.456718
6 1.582802 4.774522 0.126520
1 1.029743 5.723091 0.141519
1 2.380561 4.864987 0.877671
1 2.051339 4.663650 -0.861059
6 0.258970 3.669290 1.949505
1 1.153843 3.490799 2.563870
1 -0.145599 4.656309 2.214655
1 -0.487608 2.900756 2.197320
6 -1.582636 4.774528 -0.125815
1 -2.051449 4.663271 0.861589
1 -1.029516 5.723070 -0.140295
1 -2.380188 4.865352 -0.877134
6 -0.258754 3.669530 -1.948934
1 -1.153655 3.491351 -2.563352
1 0.146045 4.656502 -2.213914
1 0.487649 2.900855 -2.196842
6 6.971465 -0.199945 0.192589
6 7.633351 -0.656000 -1.118897
6 7.493659 -1.017587 1.386435
1 7.260486 0.852440 0.360563
1 7.290200 -0.047628 -1.970642
1 8.730862 -0.571792 -1.055771
1 7.393747 -1.709343 -1.340789
1 7.051088 -0.667835 2.332561
1 7.245960 -2.086461 1.275224
1 8.590225 -0.937693 1.468964
6 -6.971357 -0.199825 -0.194399
6 -7.633810 -0.655381 1.116976
6 -7.493061 -1.017900 -1.388161
1 -7.260282 0.852503 -0.362886
1 -7.291030 -0.046681 1.968636

1 -8.731295 -0.571205 1.053343
1 -7.394291 -1.708637 1.339372
1 -7.050042 -0.668546 -2.334225
1 -7.245484 -2.086747 -1.276425
1 -8.589585 -0.937970 -1.471215

Structure S2. R₃Si-H

8 -0.001767 -0.467554 0.067426
14 -1.588815 -0.043556 0.372826
1 -1.784068 0.015626 1.857044
14 1.593123 -0.080037 0.379936
1 1.808930 -0.133872 1.861401
6 -1.955516 1.642158 -0.371186
1 -3.006063 1.927795 -0.194497
1 -1.311422 2.420795 0.068901
1 -1.782129 1.630294 -1.460158
6 -2.689370 -1.372214 -0.360229
1 -2.453700 -2.360587 0.066568
1 -3.751320 -1.154484 -0.157888
1 -2.553229 -1.428505 -1.453013
6 1.967141 1.653732 -0.240139
1 1.772838 1.728042 -1.323080
1 1.342069 2.403665 0.271556
1 3.024423 1.912987 -0.062900
6 2.670862 -1.359693 -0.465499
1 3.737166 -1.169037 -0.258748
1 2.428727 -2.375469 -0.113162
1 2.522893 -1.330414 -1.557787

Structure S3. R₃Si·

8 0.025930 -0.490578 -0.146968
14 1.614192 -0.043154 -0.445112
14 -1.578897 -0.081125 -0.390099
1 -1.856401 -0.129440 -1.860388
6 1.948057 1.648842 0.336417
1 3.006244 1.931106 0.212236
1 1.324359 2.437182 -0.113525
1 1.723001 1.607055 1.417761
6 2.715421 -1.365602 0.333719
1 2.512763 -2.360763 -0.092422
1 3.780069 -1.128775 0.176117
1 2.525740 -1.410188 1.421615

6 -1.904604 1.655104 0.249164
1 -1.656931 1.726447 1.321310
1 -1.297937 2.399150 -0.292174
1 -2.966733 1.924600 0.123790
6 -2.631977 -1.352348 0.497766
1 -3.704027 -1.152867 0.333110
1 -2.412089 -2.369675 0.135509
1 -2.441009 -1.325270 1.583366

Structure S4. Co^{III}(salen)-H

27 0.015233 0.896376 -0.002968
8 1.290640 -0.469940 0.194122
8 -1.282491 -0.452505 0.127516
7 1.286938 2.271078 0.242637
7 -1.253065 2.281318 -0.177873
6 2.579301 -0.392754 0.077869
6 3.360269 -1.596045 -0.105264
6 4.743929 -1.477794 -0.138012
1 5.341200 -2.380137 -0.269431
6 5.447248 -0.250147 -0.022251
6 4.695017 0.900200 0.110048
1 5.192904 1.872629 0.185732
6 3.276739 0.859773 0.147002
6 2.573329 2.101691 0.291367
1 3.209275 2.977887 0.466366
6 -2.534085 2.106866 -0.300657
1 -3.163647 2.987131 -0.477988
6 -3.247249 0.865027 -0.216408
6 -4.659821 0.906260 -0.352380
1 -5.137859 1.871093 -0.551889
6 -5.430856 -0.232623 -0.233595
6 -4.755257 -1.448402 0.049581
1 -5.369903 -2.341755 0.159634
6 -3.378928 -1.567757 0.194873
6 -2.573135 -0.377380 0.031600
6 2.653376 -2.949237 -0.313964
6 1.784894 -2.858212 -1.591859
1 2.420746 -2.687579 -2.476100
1 1.060447 -2.038046 -1.517090
1 1.229716 -3.797890 -1.746200
6 1.769715 -3.296750 0.906356
1 0.988351 -2.544066 1.054628
1 2.382479 -3.359919 1.821056

1 1.284004 -4.275152 0.755488
6 3.654355 -4.103342 -0.508108
1 4.298642 -4.244289 0.374584
1 4.302078 -3.949790 -1.385790
1 3.101145 -5.042403 -0.667358
6 -2.712509 -2.916319 0.531131
6 -3.741812 -4.052434 0.676995
1 -4.303332 -4.224556 -0.255100
1 -4.465912 -3.856729 1.483933
1 -3.217359 -4.989038 0.923793
6 -1.729142 -3.311383 -0.593412
1 -0.942489 -2.558918 -0.706122
1 -2.260902 -3.418239 -1.553426
1 -1.251118 -4.277306 -0.360259
6 -1.954208 -2.794602 1.874430
1 -2.653814 -2.558079 2.693137
1 -1.191451 -2.008396 1.824750
1 -1.455101 -3.747230 2.117567
6 -0.638208 3.627681 -0.356778
6 0.661663 3.592185 0.532037
6 -1.585008 4.762997 0.063278
1 -1.037915 5.713652 0.117393
1 -2.385440 4.904317 -0.676953
1 -2.049650 4.574823 1.040827
6 -0.285180 3.791077 -1.848390
1 -1.184767 3.616760 -2.457089
1 0.076256 4.807765 -2.057755
1 0.482646 3.067584 -2.153987
6 1.595319 4.773224 0.232331
1 2.050039 4.699509 -0.764998
1 1.039892 5.718854 0.289329
1 2.402643 4.838438 0.975761
6 0.303049 3.594178 2.032818
1 1.207599 3.390153 2.624469
1 -0.097274 4.568790 2.345594
1 -0.440370 2.816006 2.260562
6 -6.944483 -0.199688 -0.385694
6 -7.660903 -0.616745 0.910115
6 -7.418247 -1.051439 -1.575795
1 -7.223896 0.847648 -0.595992
1 -7.351628 0.015587 1.757377
1 -8.754645 -0.533021 0.799311
1 -7.433224 -1.663528 1.171888
1 -6.936168 -0.729923 -2.512558

1 -7.177632 -2.116807 -1.423156
1 -8.510266 -0.973013 -1.705900
6 6.968047 -0.216839 -0.061362
6 7.518197 -0.712444 -1.409831
6 7.588506 -1.000211 1.107997
1 7.269532 0.839482 0.050591
1 7.104804 -0.128439 -2.247292
1 8.617127 -0.628794 -1.441105
1 7.261075 -1.771276 -1.579846
1 7.226534 -0.622301 2.077257
1 7.333314 -2.071464 1.049100
1 8.688045 -0.919839 1.096075
1 0.168142 0.888796 -1.415555

Structure S5. [Me₃NFPy]⁺

6 -0.374367 1.218618 -0.001711
6 1.014626 1.206500 -0.010826
6 1.736327 0.000463 -0.013545
6 1.015126 -1.205904 -0.010842
6 -0.373826 -1.218659 -0.001696
1 1.532896 2.166083 -0.017389
1 1.533873 -2.165230 -0.017435
6 3.234284 0.000419 0.009577
1 3.580444 -0.006509 1.057785
1 3.644460 -0.893709 -0.479991
1 3.644819 0.900350 -0.468778
6 -1.242221 -2.431750 0.000179
1 -1.896053 -2.437382 -0.885692
1 -0.620720 -3.334165 -0.001850
1 -1.891560 -2.437978 0.889256
6 -1.243333 2.431299 0.000153
1 -1.897997 2.436036 -0.885082
1 -1.891769 2.437816 0.889899
1 -0.622253 3.334005 -0.002975
7 -0.970328 -0.000150 0.003072
9 -2.324838 -0.000464 0.008113

Structure S6. ²TS1

27 0.248001 1.215076 -0.476340
8 -0.982616 0.107793 -1.340042
8 1.540441 -0.074109 -0.863905
7 -0.982249 2.636733 -0.294727

7	1.465694	2.337180	0.430078	1	3.104486	-1.047331	-3.950611
6	-2.278398	0.170477	-1.285910	1	1.576110	-0.851924	-3.045103
6	-3.067755	-1.014825	-1.520769	1	1.882109	-2.345807	-3.967029
6	-4.451486	-0.885113	-1.514788	6	0.822245	3.530680	1.057440
1	-5.058597	-1.773477	-1.686830	6	-0.325209	3.929278	0.054642
6	-5.141857	0.332369	-1.277644	6	1.811784	4.684048	1.279312
6	-4.380898	1.453041	-1.010105	1	1.268968	5.596944	1.557901
1	-4.870038	2.406570	-0.787708	1	2.498079	4.463348	2.109328
6	-2.963423	1.392087	-0.979499	1	2.410233	4.897921	0.383382
6	-2.248676	2.567542	-0.583572	6	0.246624	3.089707	2.418021
1	-2.854051	3.477437	-0.496911	1	1.045862	2.635531	3.022570
6	2.732746	2.088329	0.597221	1	-0.151680	3.950400	2.972884
1	3.326000	2.798304	1.184689	1	-0.547897	2.344699	2.288465
6	3.466943	0.973126	0.081521	6	-1.302772	4.938604	0.671701
6	4.864073	0.924140	0.333167	1	-1.896529	4.497569	1.484158
1	5.318686	1.724986	0.924710	1	-0.752545	5.799216	1.074379
6	5.645852	-0.101674	-0.156946	1	-1.993202	5.334944	-0.086320
6	5.002636	-1.098596	-0.937067	6	0.255798	4.508831	-1.250447
1	5.630075	-1.895016	-1.336135	1	-0.546857	4.606834	-1.995897
6	3.643140	-1.119241	-1.221891	1	0.689560	5.504438	-1.083163
6	2.827759	-0.060873	-0.676704	1	1.031291	3.847649	-1.663709
6	-2.378014	-2.383109	-1.681093	6	7.142275	-0.169380	0.109077
6	-1.590658	-2.688678	-0.383162	6	7.959384	-0.075960	-1.190697
1	-2.279401	-2.773839	0.473781	6	7.521831	-1.425203	0.912208
1	-0.860482	-1.898706	-0.172870	1	7.399238	0.709185	0.726087
1	-1.050881	-3.644215	-0.477608	1	7.714162	0.840300	-1.750508
6	-1.422004	-2.373748	-2.895656	1	9.039944	-0.067767	-0.973433
1	-0.634958	-1.621977	-2.775989	1	7.760338	-0.936799	-1.850442
1	-1.979621	-2.159759	-3.822156	1	6.965994	-1.474375	1.861962
1	-0.943810	-3.360603	-3.007628	1	7.299904	-2.344062	0.344298
6	-3.392342	-3.522079	-1.891814	1	8.599400	-1.430757	1.144020
1	-3.985823	-3.381049	-2.808970	6	-6.662376	0.374203	-1.271730
1	-4.087619	-3.623079	-1.043362	6	-7.243229	-0.469411	-0.123483
1	-2.852278	-4.476670	-1.990205	6	-7.257001	-0.047072	-2.625612
6	3.012498	-2.218038	-2.099686	1	-6.954670	1.423421	-1.092460
6	4.060674	-3.228766	-2.600695	1	-6.844196	-0.143080	0.850300
1	4.550315	-3.763315	-1.771161	1	-8.341805	-0.385838	-0.090846
1	4.842053	-2.748629	-3.210658	1	-6.994431	-1.536505	-0.248617
1	3.565740	-3.982913	-3.232228	1	-6.865424	0.576877	-3.444352
6	1.954030	-2.999452	-1.289447	1	-7.016711	-1.097687	-2.858727
1	1.135154	-2.343361	-0.980402	1	-8.355086	0.047106	-2.616131
1	2.405990	-3.454452	-0.392734	6	-2.205272	-0.946702	2.798976
1	1.526505	-3.809249	-1.902828	6	-2.489704	-1.949422	3.726797
6	2.350895	-1.570271	-3.339481	6	-1.478486	-2.793509	4.215306

6 -0.165489 -2.596879 3.754998
6 0.127055 -1.597471 2.827770
1 -3.522616 -2.062931 4.059874
1 0.652151 -3.225095 4.111206
6 -1.797600 -3.898278 5.179310
1 -0.935162 -4.139594 5.816298
1 -2.657877 -3.643535 5.813959
1 -2.059801 -4.810024 4.615351
6 1.473628 -1.315615 2.247724
1 1.755717 -0.266735 2.422155
1 2.225896 -1.978780 2.689467
1 1.444523 -1.458418 1.158464
6 -3.215792 -0.028989 2.192067
1 -2.846521 1.004914 2.170607
1 -3.410819 -0.327112 1.150139
1 -4.155162 -0.079997 2.754997
7 -0.917451 -0.851243 2.438260
9 -0.584345 0.185778 1.336624

Structure S7. ²INT1

27 0.298207 1.251358 -0.245436
8 -0.942363 0.234447 -1.183871
8 1.574156 0.008094 -0.797542
7 -0.836749 2.769881 -0.183793
7 1.590238 2.380870 0.564916
6 -2.237521 0.336848 -1.123533
6 -3.060183 -0.798715 -1.458158
6 -4.438177 -0.629523 -1.407395
1 -5.074857 -1.482288 -1.639605
6 -5.087409 0.583425 -1.057169
6 -4.291369 1.667664 -0.743762
1 -4.748424 2.620301 -0.460823
6 -2.877844 1.564535 -0.750482
6 -2.117253 2.722235 -0.394316
1 -2.691659 3.650472 -0.298601
6 2.838392 2.065924 0.741388
1 3.465905 2.767292 1.302641
6 3.521196 0.908695 0.249408
6 4.903325 0.778190 0.540225
1 5.379324 1.525245 1.182236
6 5.645320 -0.265133 0.022812
6 4.981925 -1.178800 -0.836636
1 5.581058 -1.984907 -1.258445

6 3.634643 -1.110265 -1.172002
6 2.858548 -0.052953 -0.577844
6 -2.418061 -2.157940 -1.792702
6 -1.632716 -2.650067 -0.554958
1 -2.318559 -2.839634 0.285008
1 -0.890900 -1.909740 -0.235718
1 -1.108237 -3.590872 -0.784162
6 -1.474393 -2.025485 -3.010657
1 -0.650279 -1.333521 -2.807098
1 -2.029375 -1.666119 -3.892596
1 -1.043303 -3.008910 -3.258731
6 -3.473555 -3.225801 -2.134257
1 -4.069471 -2.949808 -3.018648
1 -4.163412 -3.412639 -1.296275
1 -2.966478 -4.176786 -2.359269
6 2.983357 -2.119133 -2.137308
6 4.005227 -3.133002 -2.684520
1 4.450096 -3.746004 -1.884823
1 4.820835 -2.642451 -3.238903
1 3.497903 -3.818778 -3.380536
6 1.878043 -2.910231 -1.403730
1 1.085684 -2.245210 -1.049217
1 2.294280 -3.455249 -0.541000
1 1.423153 -3.646919 -2.085492
6 2.378489 -1.362239 -3.343903
1 3.165024 -0.823924 -3.897314
1 1.618061 -0.639871 -3.022932
1 1.903421 -2.076211 -4.035975
6 1.014355 3.647939 1.114441
6 -0.105347 4.042779 0.079516
6 2.073314 4.751208 1.252141
1 1.586176 5.711234 1.467543
1 2.747719 4.547247 2.095799
1 2.678362 4.867108 0.342776
6 0.420670 3.328862 2.499488
1 1.211278 2.915310 3.143143
1 0.037290 4.241277 2.976380
1 -0.375002 2.578491 2.422620
6 -1.026156 5.146093 0.614913
1 -1.637271 4.804124 1.461025
1 -0.426547 6.003023 0.948441
1 -1.695889 5.518140 -0.173485
6 0.505946 4.491382 -1.263690
1 -0.290045 4.571625 -2.017944

1 0.984962 5.475217 -1.166387
 1 1.253399 3.770533 -1.626536
 6 7.122589 -0.433372 0.342205
 6 7.996309 -0.336831 -0.919825
 6 7.389431 -1.742995 1.103751
 1 7.404862 0.401358 1.006649
 1 7.827785 0.613433 -1.450408
 1 9.064861 -0.399830 -0.657903
 1 7.778396 -1.158670 -1.621798
 1 6.792381 -1.796247 2.027748
 1 7.135926 -2.621258 0.487123
 1 8.453950 -1.824664 1.376781
 6 -6.604585 0.660663 -0.999853
 6 -7.167273 -0.250215 0.105374
 6 -7.250055 0.350519 -2.360532
 1 -6.864118 1.700611 -0.737359
 1 -6.727909 -0.004721 1.085253
 1 -8.261296 -0.141979 0.181361
 1 -6.951307 -1.310994 -0.104684
 1 -6.867531 1.021137 -3.145884
 1 -7.047191 -0.686797 -2.674135
 1 -8.343952 0.472012 -2.307340
 6 -2.358254 -1.214169 2.643078
 6 -2.816141 -2.458761 3.106758
 6 -1.917789 -3.517871 3.289528
 6 -0.555995 -3.297376 3.010067
 6 -0.120524 -2.047405 2.560908
 1 -3.882330 -2.584347 3.306088
 1 0.176093 -4.097473 3.137065
 6 -2.382896 -4.870237 3.755212
 1 -1.820506 -5.187618 4.647475
 1 -3.454620 -4.875500 3.995723
 1 -2.199013 -5.625363 2.973595
 6 1.294535 -1.702337 2.213828
 1 1.640366 -0.858440 2.829035
 1 1.957634 -2.563551 2.361796
 1 1.339956 -1.371316 1.168547
 6 -3.255249 -0.050934 2.344907
 1 -2.675035 0.877560 2.307789
 1 -3.721504 -0.195648 1.357568
 1 -4.058430 0.020335 3.091414
 7 -1.055267 -1.108270 2.432757
 9 -0.372932 0.558421 1.462892

Structure S8. Co^{III}(salen)-F

 27 -0.032545 0.823376 0.122776
 8 -1.280082 -0.520958 -0.249874
 8 1.298749 -0.426069 -0.301842
 7 -1.242191 2.213880 -0.440976
 7 1.239428 2.247486 0.287558
 6 -2.568379 -0.418022 -0.147660
 6 -3.353023 -1.597302 0.122593
 6 -4.735494 -1.468364 0.120539
 1 -5.341064 -2.352135 0.321530
 6 -5.427298 -0.249631 -0.112870
 6 -4.668326 0.882802 -0.329584
 1 -5.158401 1.847886 -0.492048
 6 -3.249298 0.831127 -0.332127
 6 -2.526600 2.047696 -0.547072
 1 -3.141612 2.914507 -0.817533
 6 2.520058 2.084177 0.367147
 1 3.144662 2.971756 0.522416
 6 3.246648 0.850633 0.235299
 6 4.653602 0.886150 0.402196
 1 5.126090 1.833557 0.680043
 6 5.427426 -0.244991 0.221104
 6 4.760749 -1.439333 -0.150316
 1 5.375722 -2.328001 -0.290852
 6 3.386660 -1.545679 -0.340529
 6 2.589777 -0.364446 -0.134837
 6 -2.646151 -2.926635 0.445032
 6 -1.768607 -2.730559 1.707391
 1 -2.407426 -2.546437 2.586893
 1 -1.082517 -1.880624 1.602805
 1 -1.176737 -3.639851 1.902489
 6 -1.779522 -3.379039 -0.753971
 1 -0.994411 -2.649273 -0.979141
 1 -2.405445 -3.515003 -1.651609
 1 -1.298015 -4.344478 -0.527529
 6 -3.650647 -4.055470 0.742018
 1 -4.292742 -4.276728 -0.125699
 1 -4.299800 -3.819122 1.599961
 1 -3.099976 -4.976598 0.989465
 6 2.713593 -2.877615 -0.725432
 6 3.741281 -4.009699 -0.909167
 1 4.302331 -4.215098 0.016244
 1 4.465288 -3.786184 -1.709031

1 3.215826 -4.936540 -1.187777
6 1.737445 -3.300703 0.397507
1 0.952220 -2.551496 0.547575
1 2.278988 -3.440336 1.347430
1 1.253125 -4.256488 0.138665
6 1.946881 -2.719150 -2.060139
1 2.638390 -2.445110 -2.874040
1 1.171848 -1.947419 -1.982114
1 1.463272 -3.671851 -2.332204
6 0.582810 3.583962 0.363207
6 -0.558196 3.503920 -0.727103
6 1.556801 4.737245 0.091616
1 1.005724 5.685255 0.037567
1 2.278901 4.840885 0.914154
1 2.115570 4.608798 -0.845659
6 -0.001079 3.729383 1.782209
1 0.819381 3.670280 2.512653
1 -0.495498 4.703414 1.901989
1 -0.697794 2.912450 2.004289
6 -1.508191 4.705701 -0.667571
1 -2.078732 4.740022 0.270541
1 -0.938536 5.639550 -0.760408
1 -2.218910 4.686054 -1.506295
6 0.032907 3.386660 -2.146457
1 -0.774984 3.169426 -2.860478
1 0.517683 4.323821 -2.453361
1 0.768232 2.570590 -2.202344
6 6.937689 -0.221099 0.404883
6 7.677262 -0.547736 -0.903710
6 7.389826 -1.151874 1.542881
1 7.210443 0.809517 0.691498
1 7.382982 0.141712 -1.710752
1 8.768390 -0.471419 -0.766644
1 7.455965 -1.574018 -1.241052
1 6.887788 -0.897106 2.489509
1 7.157973 -2.205000 1.312335
1 8.478489 -1.078344 1.699627
6 -6.948024 -0.205715 -0.098362
6 -7.517496 -0.582075 1.280210
6 -7.555125 -1.083470 -1.205956
1 -7.241451 0.838415 -0.304188
1 -7.110960 0.068701 2.070308
1 -8.615905 -0.489276 1.288626
1 -7.270470 -1.624156 1.543004

1 -7.177195 -0.791386 -2.198458
1 -7.308393 -2.147170 -1.051974
1 -8.653935 -0.996022 -1.216613
9 -0.316155 0.702944 1.963454

Structure S9. [Me₃MPy]⁺

6 -0.706973 1.214048 0.001197
6 0.700692 1.211742 -0.008817
6 1.414863 0.001882 -0.012635
6 0.703725 -1.209807 -0.009155
6 -0.703864 -1.215750 0.001079
1 1.208368 2.178794 -0.016228
1 1.213987 -2.175498 -0.015878
6 2.917677 0.003406 0.005758
1 3.268768 -0.001110 1.051678
1 3.326005 -0.889950 -0.486393
1 3.324447 0.901747 -0.478453
6 -1.576041 -2.436383 0.000064
1 -2.220592 -2.438446 -0.891966
1 -0.953231 -3.338352 0.000589
1 -2.223457 -2.438354 0.889854
6 -1.582235 2.432486 -0.000162
1 -2.234657 2.427648 -0.886374
1 -2.221736 2.438228 0.895387
1 -0.961605 3.335906 -0.010137
7 -1.219052 -0.001479 0.011992

Structure S10. [Co^{IV}(salen)-F]⁺

27 0.005796 0.842430 0.165175
8 -1.289040 -0.530227 -0.154145
8 1.288335 -0.372255 -0.376199
7 -1.210870 2.235614 -0.480841
7 1.251107 2.254671 0.332282
6 -2.549764 -0.425555 -0.105900
6 -3.355282 -1.623788 0.139823
6 -4.733664 -1.483032 0.110558
1 -5.356561 -2.357079 0.290735
6 -5.390655 -0.253015 -0.131261
6 -4.605415 0.902548 -0.337696
1 -5.104379 1.857294 -0.522239
6 -3.218182 0.852037 -0.312508
6 -2.487198 2.085648 -0.543037

1	-3.115466	2.951796	-0.782785	1	0.744114	3.631296	2.559892
6	2.535816	2.092338	0.354359	1	-0.519136	4.708550	1.918998
1	3.161379	2.981387	0.487318	1	-0.777820	2.929368	1.991516
6	3.253288	0.860049	0.193705	6	-1.461302	4.730031	-0.707149
6	4.657728	0.876204	0.358595	1	-2.042040	4.787397	0.223615
1	5.146259	1.813706	0.638660	1	-0.885593	5.658327	-0.812066
6	5.410056	-0.271866	0.178200	1	-2.159203	4.696250	-1.556334
6	4.723327	-1.459290	-0.178641	6	0.123577	3.400387	-2.132860
1	5.323058	-2.359282	-0.308480	1	-0.662119	3.200566	-2.875405
6	3.347135	-1.547942	-0.363779	1	0.629005	4.333850	-2.414277
6	2.581108	-0.345974	-0.182497	1	0.850295	2.576339	-2.170990
6	-2.664099	-2.949704	0.465669	6	6.919082	-0.274004	0.361287
6	-1.809951	-2.767593	1.749928	6	7.648825	-0.646776	-0.940546
1	-2.462976	-2.575161	2.616018	6	7.346965	-1.189616	1.521178
1	-1.098669	-1.936627	1.670329	1	7.212861	0.756472	0.624693
1	-1.247406	-3.693215	1.947219	1	7.367544	0.028255	-1.763996
6	-1.781452	-3.389746	-0.730380	1	8.740357	-0.585675	-0.803089
1	-0.978149	-2.675432	-0.936660	1	7.410664	-1.677227	-1.251985
1	-2.394007	-3.508143	-1.638437	1	6.849806	-0.902538	2.460911
1	-1.322071	-4.363915	-0.502561	1	7.094300	-2.242429	1.313155
6	-3.683584	-4.072041	0.733621	1	8.436366	-1.133702	1.676727
1	-4.309811	-4.281648	-0.147639	6	-6.899975	-0.175564	-0.157424
1	-4.342599	-3.840457	1.584681	6	-7.501646	-0.558940	1.208854
1	-3.141137	-4.996817	0.980371	6	-7.482889	-1.042192	-1.290484
6	2.650367	-2.876941	-0.709687	1	-7.171287	0.872861	-0.361594
6	3.659174	-4.030301	-0.863176	1	-7.098131	0.071051	2.016084
1	4.221843	-4.215932	0.065089	1	-8.594713	-0.429373	1.183453
1	4.380272	-3.844267	-1.674767	1	-7.294419	-1.611640	1.458985
1	3.116188	-4.955888	-1.108767	1	-7.071258	-0.752774	-2.269405
6	1.679631	-3.246836	0.436900	1	-7.268784	-2.111021	-1.130596
1	0.912548	-2.478043	0.581009	1	-8.576648	-0.921263	-1.326824
1	2.229971	-3.372995	1.383038	9	-0.361098	0.682484	1.959937
1	1.171487	-4.197489	0.209933	-----			
6	1.880451	-2.747479	-2.045564	Structure S11. Me₃MPy			
1	2.573077	-2.513121	-2.870220	-----			
1	1.117825	-1.960981	-1.997384	6	-0.704642	1.155926	0.000672
1	1.380478	-3.700443	-2.282823	6	0.697293	1.195908	-0.010298
6	0.585806	3.592062	0.403228	6	1.428830	0.000984	-0.013439
6	-0.514253	3.528162	-0.734596	6	0.698837	-1.194917	-0.010158
6	1.568495	4.746959	0.181229	6	-0.703120	-1.156755	0.000807
1	1.018159	5.695988	0.148306	1	1.215465	2.158355	-0.018392
1	2.273335	4.821960	1.021420	1	1.218267	-2.156692	-0.018178
1	2.142123	4.648200	-0.750093	6	2.935216	0.001718	0.008926
6	-0.046779	3.724027	1.801847	1	3.302903	-0.004549	1.049717

1 3.347417 -0.889185 -0.488422
 1 3.346627 0.898815 -0.477744
 6 -1.525491 -2.421611 0.002596
 1 -2.177889 -2.453245 -0.885415
 1 -0.898276 -3.324360 0.009577
 1 -2.186771 -2.444678 0.884082
 6 -1.528646 2.419712 0.002653
 1 -2.183440 2.449100 -0.883644
 1 -2.187606 2.443308 0.885882
 1 -0.902589 3.323283 0.006695
 7 -1.383397 -0.000849 0.006468

Structure S12. ⁴TS2

27 -0.268916 -1.232144 0.582679
 8 -1.534644 -0.009457 1.156696
 8 1.039344 -0.136486 1.392280
 7 -1.553642 -2.587125 0.281154
 7 1.004521 -2.528562 0.017695
 6 -2.807065 0.022117 0.891796
 6 -3.530838 1.260366 1.029851
 6 -4.902644 1.224631 0.820047
 1 -5.467599 2.150506 0.922513
 6 -5.632815 0.058617 0.464811
 6 -4.924377 -1.114111 0.294399
 1 -5.442243 -2.031253 -0.000554
 6 -3.518753 -1.153664 0.482029
 6 -2.841422 -2.393851 0.280462
 1 -3.489524 -3.259798 0.107796
 6 2.276411 -2.305963 -0.048152
 1 2.910830 -3.063152 -0.523194
 6 2.980534 -1.152557 0.448263
 6 4.375703 -1.101602 0.249564
 1 4.858051 -1.894424 -0.328709
 6 5.140266 -0.073674 0.780568
 6 4.478392 0.913977 1.559884
 1 5.094553 1.708115 1.977816
 6 3.114720 0.934185 1.804536
 6 2.313973 -0.121306 1.211847
 6 -2.779307 2.567452 1.337324
 6 -1.782058 2.839251 0.184342
 1 -2.325439 3.008404 -0.758157
 1 -1.093123 1.999735 0.030563
 1 -1.187213 3.741148 0.399340

6 -2.040566 2.461468 2.692242
 1 -1.291542 1.662234 2.684404
 1 -2.757618 2.264986 3.506027
 1 -1.527937 3.410903 2.914897
 6 -3.734122 3.772613 1.423063
 1 -4.468765 3.660872 2.236280
 1 -4.281498 3.937256 0.481729
 1 -3.150187 4.683359 1.627172
 6 2.452990 2.038959 2.644394
 6 3.490319 3.027505 3.207934
 1 4.039675 3.552095 2.410621
 1 4.220948 2.531412 3.866179
 1 2.971518 3.792291 3.805579
 6 1.472797 2.834496 1.752347
 1 0.699591 2.186249 1.329015
 1 2.011766 3.327702 0.928429
 1 0.974412 3.616413 2.346351
 6 1.697734 1.414940 3.842986
 1 2.391093 0.851697 4.488367
 1 0.899260 0.740445 3.512148
 1 1.243252 2.214335 4.449654
 6 0.384829 -3.733658 -0.614242
 6 -0.950049 -3.951454 0.186613
 6 1.310616 -4.955265 -0.541975
 1 0.760539 -5.861246 -0.827884
 1 2.145147 -4.861010 -1.250863
 1 1.724037 -5.102280 0.465050
 6 0.104445 -3.371141 -2.086271
 1 1.047351 -3.087263 -2.575627
 1 -0.310537 -4.233630 -2.624615
 1 -0.582624 -2.518855 -2.160808
 6 -1.880067 -4.955236 -0.506738
 1 -2.268741 -4.573096 -1.460227
 1 -1.338630 -5.889453 -0.704986
 1 -2.730704 -5.216643 0.138257
 6 -0.672898 -4.422459 1.629602
 1 -1.609575 -4.405898 2.205643
 1 -0.287767 -5.451229 1.636234
 1 0.054531 -3.772584 2.139642
 6 6.633788 0.014807 0.528925
 6 7.440929 0.027504 1.838008
 6 6.970275 1.233891 -0.349817
 1 6.920857 -0.889931 -0.032850
 1 7.210944 -0.852824 2.458131

1	8.520562	0.022308	1.620007	7	1.268863	2.283592	0.221786
1	7.228773	0.928960	2.435495	6	-2.575519	-0.373175	-0.006988
1	6.429548	1.197607	-1.308276	6	-3.350223	-1.581473	0.168181
1	6.701208	2.176313	0.154907	6	-4.730956	-1.466441	0.102628
1	8.050070	1.265509	-0.565500	1	-5.334474	-2.364984	0.222718
6	-7.138561	0.120522	0.264201	6	-5.427281	-0.245466	-0.107148
6	-7.520072	1.055897	-0.895918	6	-4.678805	0.911507	-0.237898
6	-7.866570	0.516283	1.560167	1	-5.178517	1.873542	-0.382003
1	-7.469230	-0.897001	-0.006297	6	-3.266527	0.877665	-0.181460
1	-7.022718	0.755147	-1.831378	6	-2.556466	2.114293	-0.302878
1	-8.608926	1.040356	-1.064449	1	-3.182945	2.994612	-0.482104
1	-7.232706	2.098318	-0.680494	6	2.556438	2.114290	0.302921
1	-7.622195	-0.174431	2.382410	1	3.182904	2.994608	0.482196
1	-7.587946	1.533912	1.880352	6	3.266509	0.877667	0.181526
1	-8.958366	0.502133	1.411680	6	4.678784	0.911511	0.238070
9	-0.145664	-0.355593	-1.182566	1	5.178482	1.873542	0.382253
8	1.062484	1.374889	-3.583292	6	5.427271	-0.245454	0.107324
14	-0.294894	2.387338	-3.564776	6	4.730964	-1.466422	-0.102559
1	-0.114306	3.342959	-2.431377	1	5.334494	-2.364957	-0.222645
14	2.196248	0.758372	-2.551395	6	3.350237	-1.581455	-0.168220
1	1.242637	0.073671	-1.441168	6	2.575517	-0.373166	0.006948
6	-0.310553	3.305567	-5.196885	6	-2.654224	-2.926372	0.440848
1	-1.169657	3.995511	-5.239964	6	-1.843513	-2.817829	1.755160
1	0.611328	3.893908	-5.330764	1	-2.513735	-2.614434	2.605872
1	-0.396231	2.598607	-6.038321	1	-1.094497	-2.018421	1.701977
6	-1.828636	1.346475	-3.306532	1	-1.319048	-3.766139	1.953223
1	-1.724943	0.767941	-2.376720	6	-1.722767	-3.290498	-0.738331
1	-2.725399	1.984127	-3.238535	1	-0.937117	-2.540956	-0.875242
1	-1.965317	0.644263	-4.145404	1	-2.298423	-3.375773	-1.674231
6	3.225685	2.104231	-1.765590	1	-1.238624	-4.261677	-0.548022
1	3.852106	2.573129	-2.543470	6	-3.667743	-4.073423	0.609392
1	2.577064	2.874160	-1.322683	1	-4.268341	-4.231616	-0.300201
1	3.881583	1.700648	-0.981988	1	-4.354319	-3.901370	1.453124
6	3.153204	-0.609966	-3.387938	1	-3.124056	-5.008771	0.812389
1	3.861051	-1.078308	-2.687763	6	2.654261	-2.926347	-0.440979
1	2.471452	-1.380205	-3.779337	6	3.667795	-4.073390	-0.609488
1	3.725190	-0.187690	-4.231450	1	4.268326	-4.231615	0.300143

Structure S13. [Co^{III}(salen)]⁺

27	-0.000006	0.912577	-0.000041	1	4.354433	-3.901303	-1.453164
8	-1.282651	-0.432635	-0.009317	1	3.124126	-5.008732	-0.812559
8	1.282649	-0.432626	0.009172	6	1.722728	-3.290501	0.738130
7	-1.268887	2.283590	-0.221828	1	0.937080	-2.540952	0.875014
				1	2.298324	-3.375813	1.674063
				1	1.238582	-4.261667	0.547760
				6	1.843631	-2.817775	-1.755340

1 2.513903 -2.614347 -2.606004
 1 1.094600 -2.018380 -1.702181
 1 1.319194 -3.766089 -1.953462
 6 0.639105 3.618907 0.459770
 6 -0.639126 3.618893 -0.459858
 6 1.585627 4.780693 0.132309
 1 1.033024 5.728994 0.145113
 1 2.377777 4.871212 0.888779
 1 2.056759 4.668736 -0.853619
 6 0.254835 3.670879 1.952691
 1 1.150625 3.498834 2.566852
 1 -0.153932 4.655923 2.215983
 1 -0.488969 2.900490 2.206391
 6 -1.585642 4.780698 -0.132447
 1 -2.056766 4.668797 0.853490
 1 -1.033035 5.728996 -0.145307
 1 -2.377797 4.871178 -0.888916
 6 -0.254855 3.670806 -1.952782
 1 -1.150645 3.498727 -2.566933
 1 0.153903 4.655843 -2.216113
 1 0.488956 2.900415 -2.206454
 6 6.944651 -0.223962 0.170774
 6 7.574060 -0.680762 -1.156939
 6 7.472515 -1.055579 1.352890
 1 7.245579 0.823993 0.339341
 1 7.220526 -0.065819 -1.999277
 1 8.671956 -0.601520 -1.109935
 1 7.325890 -1.732005 -1.377498
 1 7.045750 -0.709622 2.307281
 1 7.220674 -2.122523 1.236307
 1 8.569606 -0.978463 1.418434
 6 -6.944665 -0.223974 -0.170490
 6 -7.573982 -0.680850 1.157240
 6 -7.472607 -1.055524 -1.352618
 1 -7.245607 0.823990 -0.338977
 1 -7.220389 -0.065957 1.999589
 1 -8.671882 -0.601602 1.110316
 1 -7.325800 -1.732107 1.377721
 1 -7.045912 -0.709510 -2.307018
 1 -7.220752 -2.122474 -1.236114
 1 -8.569704 -0.978411 -1.418080

Structure S14. HF

9 0.000000 0.000000 0.092769
 1 0.000000 0.000000 -0.834923

Structure S15. R₃Si⁺

8 0.032529 -0.356475 -0.216825
 14 1.575355 -0.046691 -0.011579
 14 -1.658209 -0.041970 -0.418378
 1 -1.843511 -0.056033 -1.892440
 6 2.113993 1.703162 0.086690
 1 3.210141 1.782519 0.065512
 1 1.673555 2.275505 -0.745567
 1 1.735872 2.136534 1.028926
 6 2.713809 -1.473554 0.114160
 1 2.162277 -2.423455 0.127697
 1 3.400161 -1.452052 -0.750427
 1 3.328513 -1.372505 1.024118
 6 -2.008014 1.634760 0.321688
 1 -1.769819 1.644469 1.397780
 1 -1.422637 2.423586 -0.176796
 1 -3.077030 1.879302 0.207430
 6 -2.539036 -1.451341 0.423248
 1 -3.628811 -1.345617 0.294476
 1 -2.233430 -2.419127 -0.004585
 1 -2.320082 -1.458214 1.503147

Structure S16. 1

6 1.308212 0.570092 -0.053265
 6 0.291669 1.475139 0.284902
 6 -1.025857 1.033427 0.451139
 6 -1.367126 -0.315130 0.294323
 6 -0.343100 -1.216413 -0.034931
 6 0.977017 -0.798252 -0.209215
 1 0.517455 2.534111 0.410984
 1 -1.803119 1.760575 0.701124
 1 -0.552870 -2.280770 -0.168266
 8 1.919756 -1.719470 -0.579803
 8 2.607733 0.904943 -0.261716
 6 2.927414 -2.017433 0.382454
 1 2.480406 -2.400741 1.317834
 1 3.563488 -2.800035 -0.054725
 1 3.545153 -1.134911 0.612738
 6 3.003550 2.256325 -0.117152

1 2.824504 2.627663 0.907546
 1 4.080755 2.289758 -0.326553
 1 2.477856 2.913878 -0.831913
 6 -2.803849 -0.778018 0.472103
 1 -2.837503 -1.877181 0.378606
 1 -3.153643 -0.534588 1.490286
 6 -3.740004 -0.164681 -0.537809
 6 -4.791013 0.608053 -0.245757
 1 -3.501677 -0.375438 -1.588446
 1 -5.428513 1.028957 -1.028884
 1 -5.053690 0.846262 0.791068

Structure S17. 2

6 1.266238 0.549313 0.049851
 6 0.220317 1.484169 0.206276
 6 -1.077997 1.046836 0.362450
 6 -1.412496 -0.350985 0.381832
 6 -0.402988 -1.277190 0.223113
 6 0.944774 -0.877059 0.053733
 1 0.439091 2.550700 0.204461
 1 -1.881122 1.778390 0.474251
 1 -0.603296 -2.349600 0.227439
 8 1.810353 -1.850722 -0.084871
 8 2.533767 0.862568 -0.101094
 6 3.235825 -1.735645 -0.267845
 1 3.690194 -1.232698 0.595524
 1 3.590006 -2.769001 -0.346247
 1 3.457466 -1.176843 -1.186194
 6 2.979574 2.230076 -0.114730
 1 2.730465 2.717093 0.839368
 1 4.065600 2.182908 -0.244886
 1 2.518297 2.769267 -0.954971
 6 -2.856734 -0.753405 0.552887
 1 -2.923687 -1.850116 0.628999
 1 -3.232920 -0.331475 1.500815
 6 -3.702046 -0.255132 -0.596272
 6 -4.683782 0.645245 -0.484424
 1 -3.454091 -0.672626 -1.579416
 1 -5.262304 0.966545 -1.354993
 1 -4.950776 1.085352 0.482350

Structure S18. ³TS3

27 1.402034 1.096566 -0.235218
 8 2.309813 -0.579416 -0.113996
 8 -0.140161 0.937681 0.970571
 7 3.157656 2.126977 -0.344500
 7 0.680131 2.854867 -0.893054
 6 3.568601 -0.847028 0.061424
 6 3.977751 -2.217943 0.272118
 6 5.328376 -2.481689 0.466666
 1 5.641890 -3.511858 0.636050
 6 6.341410 -1.491060 0.459211
 6 5.946028 -0.183986 0.246358
 1 6.698357 0.611917 0.228763
 6 4.586119 0.171606 0.051520
 6 4.314827 1.575116 -0.175509
 1 5.219319 2.201667 -0.204169
 6 -0.569347 3.176830 -0.842750
 1 -0.911454 4.085298 -1.359720
 6 -1.608619 2.494601 -0.098481
 6 -2.925047 2.998034 -0.236372
 1 -3.107049 3.785421 -0.975992
 6 -3.970293 2.544384 0.549152
 6 -3.662738 1.577188 1.535641
 1 -4.478913 1.245989 2.176086
 6 -2.394862 1.037095 1.736285
 6 -1.323957 1.462568 0.864757
 6 2.922182 -3.343474 0.279867
 6 2.217627 -3.399632 -1.096288
 1 2.939999 -3.640938 -1.893115
 1 1.748770 -2.436826 -1.329207
 1 1.437249 -4.179227 -1.096723
 6 1.879705 -3.088067 1.394615
 1 1.369142 -2.129347 1.248236
 1 2.366494 -3.077124 2.383707
 1 1.122550 -3.890107 1.399143
 6 3.549161 -4.726301 0.538769
 1 4.048915 -4.776400 1.519230
 1 4.282683 -5.001131 -0.235762
 1 2.758316 -5.493010 0.531213
 6 -2.119216 0.035649 2.879433
 6 -3.386864 -0.263115 3.702275
 1 -4.174356 -0.729054 3.089088
 1 -3.804819 0.643107 4.168248
 1 -3.140010 -0.967754 4.511813
 6 -1.600190 -1.311304 2.327103

1	-0.653497	-1.178489	1.791744	1	9.106486	-2.691135	2.225842
1	-2.333519	-1.760916	1.639579	1	0.797708	0.710414	-1.595546
1	-1.431932	-2.019680	3.155377	6	-5.254805	-3.256132	-1.234447
6	-1.067652	0.640367	3.839868	6	-4.148263	-3.997104	-1.665763
1	-1.437817	1.581764	4.278215	6	-2.873386	-3.413828	-1.694240
1	-0.127550	0.845742	3.312100	6	-2.668617	-2.092503	-1.289241
1	-0.858821	-0.059861	4.666152	6	-3.782354	-1.355203	-0.847963
6	1.716028	3.697084	-1.532727	6	-5.057097	-1.914273	-0.820044
6	2.982709	3.578497	-0.569138	1	-4.267675	-5.030798	-1.990376
6	1.267197	5.153976	-1.715130	1	-2.025327	-4.011698	-2.039073
1	2.100680	5.771077	-2.075238	1	-3.671617	-0.325611	-0.500302
1	0.473224	5.224539	-2.473114	8	-6.121974	-1.144876	-0.428892
1	0.888036	5.594349	-0.782471	8	-6.530407	-3.719097	-1.181893
6	2.030829	3.095858	-2.916597	6	-6.685851	-1.459501	0.840339
1	1.107065	3.045329	-3.511844	1	-5.939408	-1.334298	1.644942
1	2.751746	3.720258	-3.462646	1	-7.509288	-0.752252	1.007987
1	2.439758	2.080526	-2.824655	1	-7.077783	-2.488800	0.863909
6	4.225125	4.249538	-1.171971	6	-6.793163	-5.054611	-1.569744
1	4.585162	3.723943	-2.067672	1	-6.248450	-5.778575	-0.937879
1	4.011075	5.291757	-1.442955	1	-7.872598	-5.210020	-1.442873
1	5.046980	4.278509	-0.441612	1	-6.526085	-5.232417	-2.626548
6	2.676727	4.207643	0.805210	6	-1.294466	-1.463194	-1.320681
1	3.508963	3.999944	1.494369	1	-1.076912	-0.998531	-0.340807
1	2.559909	5.298199	0.730641	1	-0.520730	-2.233269	-1.458442
1	1.759837	3.778815	1.234424	6	-1.120768	-0.370731	-2.331134
6	-5.363782	3.147951	0.432690	6	0.082236	-0.066482	-2.888008
6	-5.586740	4.215576	1.519848	1	-1.968073	0.309260	-2.476079
6	-6.485985	2.100545	0.461449	1	0.180302	0.760270	-3.595305
1	-5.409879	3.657526	-0.546084	1	0.908812	-0.782132	-2.852844
1	-4.820919	5.005542	1.466897	-----			
1	-6.578027	4.687921	1.416161	Structure S19. 3			
1	-5.531690	3.761988	2.524038	-----			
1	-6.320880	1.301028	-0.274942	6	1.462498	0.529093	-0.065900
1	-6.560897	1.622862	1.452384	6	0.593744	1.568910	0.293041
1	-7.460287	2.573921	0.257222	6	-0.761654	1.310701	0.534344
6	7.800906	-1.864568	0.674554	6	-1.286508	0.017572	0.432058
6	8.324251	-2.795069	-0.432990	6	-0.407510	-1.020054	0.082374
6	8.036687	-2.477740	2.065484	6	0.945239	-0.786232	-0.166039
1	8.383878	-0.928180	0.622702	1	0.964316	2.590362	0.380785
1	8.192765	-2.342195	-1.428494	1	-1.419608	2.140916	0.805741
1	9.396178	-3.011497	-0.292085	1	-0.763769	-2.049392	-0.008679
1	7.787786	-3.758645	-0.429404	8	1.739525	-1.833406	-0.550905
1	7.698217	-1.797514	2.863012	8	2.784255	0.680803	-0.341510
1	7.487887	-3.427509	2.179669	6	2.740411	-2.242775	0.376567

1 2.288380 -2.545660 1.338712
 1 3.249360 -3.110613 -0.066238
 1 3.477591 -1.444848 0.559580
 6 3.360966 1.970716 -0.261194
 1 3.283767 2.391221 0.757299
 1 4.421509 1.855089 -0.520656
 1 2.891211 2.672423 -0.973053
 6 -2.761971 -0.246152 0.646579
 1 -2.900841 -1.303470 0.962808
 1 -3.131534 0.353446 1.500667
 6 -3.607821 0.038329 -0.557748
 1 -3.145322 -0.068436 -1.545157
 6 -5.093140 0.098097 -0.450148
 1 -5.559215 0.516145 -1.356408
 1 -5.537008 -0.909944 -0.296273
 1 -5.414601 0.704360 0.416590

Structure S20. ²TS4

6 -3.103185 -0.290854 -0.319292
 6 -3.264097 0.851523 -1.120692
 6 -2.652730 2.050387 -0.769045
 6 -1.891672 2.155279 0.416312
 6 -1.753152 1.022815 1.232138
 6 -2.354717 -0.190453 0.901887
 1 -3.843760 0.795781 -2.041001
 1 -2.761376 2.919152 -1.421961
 1 -1.180360 1.064785 2.160329
 8 -2.118138 -1.231905 1.721474
 8 -3.561351 -1.508353 -0.633884
 6 -3.094531 -2.249966 1.979523
 1 -3.051390 -3.042467 1.220917
 1 -2.842502 -2.661060 2.965989
 1 -4.109215 -1.825380 2.005949
 6 -4.290402 -1.715666 -1.841165
 1 -3.674803 -1.465608 -2.720446
 1 -4.544342 -2.781921 -1.861982
 1 -5.215146 -1.116555 -1.851746
 6 -1.105430 3.419418 0.708826
 1 -1.660853 4.322610 0.422778
 1 -0.822828 3.481867 1.768837
 6 0.069895 3.180749 -0.184475
 6 1.196852 2.460672 0.195574
 1 -0.036688 3.463957 -1.236727

1 2.058926 2.429818 -0.475208
 1 1.403644 2.300184 1.258283
 8 2.800876 -0.455990 -0.934267
 14 4.456370 -0.395722 -0.608561
 1 5.120146 -0.314441 -1.940168
 14 1.292142 -0.610992 -0.289762
 1 0.885923 0.915050 -0.011514
 6 4.817501 1.141098 0.404854
 1 5.892178 1.202741 0.643625
 1 4.538256 2.057752 -0.139161
 1 4.259136 1.117413 1.355682
 6 4.961389 -1.961295 0.289369
 1 4.680559 -2.855959 -0.289510
 1 6.052963 -1.981639 0.444202
 1 4.475472 -2.021906 1.276954
 6 1.285140 -1.467883 1.367116
 1 1.652572 -2.500758 1.242850
 1 1.943035 -0.949566 2.081915
 1 0.263273 -1.506098 1.774683
 6 0.094974 -1.265158 -1.562790
 1 -0.852192 -1.559253 -1.087820
 1 -0.114230 -0.515603 -2.340883
 1 0.538330 -2.152908 -2.043770

Structure S21. ⁴TS5

27 -1.104275 0.692549 -0.323958
 8 -2.450012 -0.666035 -0.571612
 8 0.158775 -0.332849 -1.342209
 7 -2.544049 2.077433 -0.876184
 7 0.073741 2.350838 -0.782755
 6 -3.703210 -0.609514 -0.237403
 6 -4.384470 -1.793430 0.220138
 6 -5.745337 -1.695018 0.486886
 1 -6.276310 -2.583083 0.830230
 6 -6.501600 -0.503220 0.345132
 6 -5.830282 0.635900 -0.060702
 1 -6.374191 1.580110 -0.167774
 6 -4.439201 0.617704 -0.333076
 6 -3.813909 1.851266 -0.739168
 1 -4.521153 2.666827 -0.944161
 6 1.325817 2.282746 -1.098047
 1 1.904329 3.210452 -1.211437
 6 2.080535 1.077492 -1.348420

6	3.475470	1.195154	-1.539733	1	-3.361089	4.647730	-0.252114
1	3.937565	2.182731	-1.442600	1	-2.545638	5.458484	-1.613057
6	4.259815	0.095506	-1.846971	1	-3.896731	4.375607	-1.928336
6	3.612715	-1.158730	-1.970304	6	-1.773519	3.089910	-2.933326
1	4.236007	-2.017901	-2.215099	1	-2.714391	2.783638	-3.414052
6	2.246549	-1.352566	-1.796411	1	-1.409538	3.993909	-3.441635
6	1.443319	-0.200520	-1.481981	1	-1.041082	2.281847	-3.071169
6	-3.590761	-3.096980	0.430711	6	5.750885	0.244383	-2.113325
6	-2.480111	-2.850572	1.482601	6	6.034279	0.240853	-3.626763
1	-2.928410	-2.628190	2.465063	6	6.604865	-0.810193	-1.395042
1	-1.831452	-2.009606	1.207412	1	6.047688	1.232811	-1.720834
1	-1.855759	-3.752935	1.592416	1	5.470753	1.035373	-4.140733
6	-2.967009	-3.565577	-0.905474	1	7.107693	0.392855	-3.827952
1	-2.274184	-2.817086	-1.305704	1	5.739660	-0.723488	-4.074054
1	-3.754363	-3.754530	-1.653875	1	6.394942	-0.835437	-0.317491
1	-2.411378	-4.505869	-0.753113	1	6.424538	-1.820009	-1.798884
6	-4.484869	-4.237408	0.951738	1	7.676840	-0.594412	-1.531559
1	-5.284140	-4.495052	0.238431	6	-7.993726	-0.489803	0.643625
1	-4.952394	-3.989432	1.917856	6	-8.286583	-0.825170	2.116053
1	-3.873230	-5.140719	1.103524	6	-8.773152	-1.421222	-0.300345
6	1.585445	-2.739823	-1.929718	1	-8.349015	0.539503	0.461516
6	2.623777	-3.842802	-2.207308	1	-7.757849	-0.136966	2.794273
1	3.367170	-3.922139	-1.397840	1	-9.366336	-0.754764	2.327030
1	3.162714	-3.678627	-3.153752	1	-7.966544	-1.851278	2.362340
1	2.113402	-4.815604	-2.282475	1	-8.595145	-1.159249	-1.355301
6	0.841319	-3.115311	-0.624655	1	-8.472042	-2.472769	-0.160042
1	0.070214	-2.379663	-0.371077	1	-9.856775	-1.357583	-0.107884
1	1.542473	-3.193234	0.220651	9	-0.798543	0.393087	1.453744
1	0.352549	-4.096100	-0.742031	6	4.733242	-1.042465	1.991550
6	0.583075	-2.725070	-3.108871	6	3.427049	-1.302049	1.557570
1	1.098110	-2.485461	-4.053656	6	2.399420	-0.383892	1.787350
1	-0.210115	-1.985156	-2.944195	6	2.649827	0.819440	2.459656
1	0.114333	-3.717076	-3.219244	6	3.962538	1.084739	2.873489
6	-0.665398	3.628491	-0.668809	6	5.003850	0.180905	2.646782
6	-2.029562	3.353829	-1.434591	1	3.204454	-2.221983	1.021920
6	0.095890	4.825507	-1.253495	1	1.387720	-0.592877	1.433070
1	-0.524873	5.729688	-1.211940	1	4.210952	2.013658	3.393276
1	0.997678	5.036383	-0.660106	8	6.251396	0.493408	3.120423
1	0.402143	4.664727	-2.296518	8	5.782212	-1.897369	1.826586
6	-0.922777	3.884850	0.828463	6	7.295322	0.632032	2.162437
1	0.036323	3.979460	1.355724	1	6.988302	1.291772	1.330504
1	-1.484247	4.817253	0.977402	1	8.146930	1.091175	2.684701
1	-1.477400	3.056572	1.287696	1	7.603296	-0.340574	1.748730
6	-3.015246	4.521421	-1.287531	6	5.549075	-3.153781	1.217821

1 5.185658 -3.044028 0.181595
1 6.514201 -3.676686 1.202072
1 4.820232 -3.753851 1.790500
6 1.521349 1.789071 2.722374
1 1.921287 2.769148 3.050636
1 0.999386 1.986115 1.767893
6 0.500863 1.299231 3.697201
1 0.557927 0.260951 4.036932
6 -0.694335 2.107808 4.053403
1 -1.037872 1.910934 5.083158
1 -0.509809 3.190123 3.945754
1 -1.535927 1.853102 3.378569

Structure S22. 4

6 1.733607 0.517400 -0.028150
6 0.812073 1.485552 0.394767
6 -0.519858 1.137427 0.648391
6 -0.969233 -0.179212 0.492441
6 -0.038010 -1.145398 0.077625
6 1.293535 -0.820538 -0.181371
1 1.123378 2.522392 0.522502
1 -1.223643 1.911358 0.960973
1 -0.333506 -2.189101 -0.057427
8 2.140399 -1.799722 -0.627957
8 3.037530 0.761077 -0.319166
6 3.182459 -2.189296 0.262037
1 2.768939 -2.559545 1.217906
1 3.731391 -3.005744 -0.228210
1 3.875938 -1.358132 0.466612
6 3.538777 2.078286 -0.186772
1 3.457971 2.444407 0.852162
1 4.598611 2.038626 -0.470571
1 3.013590 2.783310 -0.855153
6 -2.418300 -0.540989 0.720974
1 -2.522774 -1.629551 0.853359
1 -2.792787 -0.066725 1.644344
6 -4.789923 -0.517286 -0.217080
1 -5.411791 -0.129702 -1.037902
1 -4.887436 -1.613438 -0.192886
1 -5.169895 -0.110560 0.733556
6 -3.341671 -0.117032 -0.421736
1 -2.959210 -0.522879 -1.375529
9 -3.288104 1.282329 -0.535945

Structure S23. ¹INT2

6 -0.201580 1.168555 0.036240
6 1.196255 1.198618 0.006640
6 1.923314 0.000028 -0.009787
6 1.196253 -1.198586 0.006664
6 -0.201559 -1.168541 0.036245
1 1.714860 2.160290 -0.006428
1 1.714865 -2.160258 -0.006371
6 3.427103 -0.000035 -0.079542
1 3.853731 -0.894084 0.398749
1 3.757335 -0.001036 -1.132665
1 3.853775 0.894849 0.397140
6 -1.032347 -2.424553 0.073211
1 -2.065744 -2.201251 -0.224878
1 -0.615790 -3.201871 -0.584457
1 -1.056586 -2.836931 1.096466
6 -1.032339 2.424585 0.073216
1 -2.065747 2.201301 -0.224849
1 -1.056543 2.836953 1.096477
1 -0.615766 3.201892 -0.584452
7 -0.866098 0.000016 0.049993
1 -2.418066 -0.000014 -0.038149
9 -3.398693 -0.000042 -0.154873

Structure S24. ²TS6

6 1.998449 -1.157677 0.166588
6 3.326301 -1.420610 0.479679
6 4.337404 -0.504076 0.136082
6 3.960225 0.672009 -0.522584
6 2.618366 0.913795 -0.820960
1 3.576679 -2.349408 0.995408
1 4.707979 1.414303 -0.807727
6 5.771903 -0.793828 0.477159
1 6.446543 -0.002892 0.122319
1 5.892875 -0.893171 1.568184
1 6.087636 -1.751140 0.032003
6 2.136930 2.160209 -1.504361
1 1.056766 2.099536 -1.686887
1 2.342974 3.038284 -0.871332
1 2.671133 2.307475 -2.455453
6 0.863272 -2.079240 0.489380

1 0.080938 -1.548819 1.055972
1 0.385922 -2.438979 -0.435431
1 1.210856 -2.943172 1.069660
7 1.694594 -0.002290 -0.471119
1 0.632485 0.239242 -0.710664
9 -0.625473 0.695526 -0.988006
8 -2.413395 -0.320528 0.711655
14 -1.461379 1.054619 1.034680
14 -2.932690 -1.119213 -0.655425
1 -1.851973 -2.009274 -1.186892
6 -2.352033 2.599774 0.380270
1 -1.870583 3.516769 0.761269
1 -2.346972 2.634522 -0.718188
1 -3.400699 2.602586 0.730066
6 -1.669897 1.159770 2.950998
1 -1.252993 0.270607 3.453133
1 -1.155838 2.049337 3.353922
1 -2.742286 1.229087 3.217871
6 -3.487056 0.053138 -2.015519
1 -4.278874 0.731248 -1.656253
1 -2.619663 0.655028 -2.322593
1 -3.875054 -0.501968 -2.886183
6 -4.359129 -2.227888 -0.118959
1 -4.721003 -2.838787 -0.963530
1 -4.048852 -2.911918 0.688375
1 -5.205185 -1.625921 0.253392

Structure S25. R₃Si-F

9 -1.901887 -0.642321 1.465076
8 0.184069 -0.439691 -0.148340
14 -1.416527 -0.060805 0.005518
14 1.732445 -0.008704 0.336464
1 1.725803 0.155745 1.823318
6 -1.681329 1.783323 0.046128
1 -2.749680 2.026729 0.163870
1 -1.131556 2.238644 0.886060
1 -1.324845 2.247701 -0.887695
6 -2.384587 -0.960688 -1.302150
1 -2.192761 -2.044471 -1.250218
1 -3.466310 -0.792542 -1.176412
1 -2.096904 -0.609276 -2.306345
6 2.204210 1.616086 -0.475776
1 2.182345 1.520294 -1.574072

1 1.508560 2.420772 -0.187383
1 3.221600 1.920703 -0.178519
6 2.887798 -1.397856 -0.155220
1 3.920197 -1.175628 0.162098
1 2.581841 -2.348765 0.310106
1 2.886727 -1.533552 -1.249409

Structure S26. Me₃NHPy

6 -0.615793 1.240369 -0.001524
6 0.753610 1.193010 -0.010785
6 1.475130 -0.045362 -0.022562
6 0.689286 -1.235150 -0.009002
6 -0.684348 -1.209588 -0.000627
1 1.300536 2.140162 -0.012585
1 1.182849 -2.211354 -0.008506
6 2.977147 -0.071593 0.016851
1 3.381952 0.187935 1.016236
1 3.370751 -1.068772 -0.238213
1 3.420223 0.651901 -0.691303
6 -1.577025 -2.409970 0.006347
1 -2.231952 -2.431416 -0.885017
1 -0.989663 -3.338303 0.023473
1 -2.245658 -2.410083 0.888069
6 -1.440372 2.489573 0.007306
1 -2.094740 2.544329 -0.882450
1 -2.104953 2.524615 0.890830
1 -0.802858 3.384040 0.022347
7 -1.331016 0.036337 -0.020975
1 -2.335186 0.064852 0.107923

Structure S27. ²TS7

6 -4.800240 -0.357653 -0.070748
6 -4.041983 -1.342379 -0.722026
6 -2.652458 -1.388720 -0.563424
6 -1.979148 -0.467137 0.248466
6 -2.743507 0.521525 0.886278
6 -4.130644 0.589821 0.740062
1 -4.530993 -2.085648 -1.352113
1 -2.081744 -2.161350 -1.085836
1 -2.269558 1.269248 1.527598
8 -4.822745 1.550529 1.429804
8 -6.152911 -0.242977 -0.145733

6	-5.433059	2.572830	0.648145	7	1.395764	2.391103	0.170250
1	-6.207824	2.166554	-0.021594	6	-2.485731	-0.094168	-0.786907
1	-5.897438	3.278208	1.351885	6	-3.323990	-1.261428	-0.984421
1	-4.680549	3.112907	0.044839	6	-4.692037	-1.072433	-1.136885
6	-6.877959	-1.156320	-0.947015	1	-5.327859	-1.946748	-1.277379
1	-6.755135	-2.195879	-0.594607	6	-5.330856	0.194711	-1.132217
1	-7.935688	-0.873839	-0.863277	6	-4.527047	1.306329	-0.967990
1	-6.574367	-1.101877	-2.007751	1	-4.975975	2.305754	-0.963686
6	-0.468118	-0.526901	0.403652	6	-3.124996	1.195244	-0.785773
1	-0.167344	0.216858	1.167647	6	-2.381021	2.408486	-0.589935
1	-0.177712	-1.511823	0.811234	1	-2.962991	3.329710	-0.719104
6	0.267222	-0.289654	-0.885233	6	2.682946	2.255824	0.030909
6	1.355124	-1.073881	-1.319882	1	3.331971	3.112719	0.244719
1	0.030921	0.642729	-1.411950	6	3.379830	1.058319	-0.356676
1	1.684852	-0.964129	-2.362086	6	4.794349	1.119857	-0.437056
1	1.411404	-2.109520	-0.953402	1	5.286800	2.077284	-0.233694
6	4.128258	-0.739065	0.862960	6	5.556797	0.011330	-0.753062
6	5.510881	-0.668567	0.969414	6	4.864463	-1.201785	-1.000143
6	6.253525	0.234662	0.181826	1	5.467258	-2.075310	-1.249524
6	5.522887	1.058390	-0.696794	6	3.482818	-1.339325	-0.945151
6	4.139804	0.960420	-0.784247	6	2.686124	-0.175270	-0.612003
1	6.019678	-1.310441	1.693512	6	-2.694508	-2.667355	-1.049663
1	6.040653	1.801496	-1.309140	6	-1.947692	-2.981040	0.265908
6	7.754215	0.298377	0.260472	1	-2.653895	-3.015342	1.110221
1	8.220016	-0.420031	-0.438646	1	-1.189291	-2.220998	0.481869
1	8.130934	1.298364	-0.005312	1	-1.449842	-3.963132	0.199717
1	8.116830	0.046284	1.269431	6	-1.710173	-2.724024	-2.238986
6	3.312201	1.804420	-1.709479	1	-0.924875	-1.969470	-2.127176
1	2.452138	2.240359	-1.173984	1	-2.240562	-2.546291	-3.189212
1	3.906113	2.610466	-2.161525	1	-1.231580	-3.716056	-2.296200
1	2.892393	1.187805	-2.522778	6	-3.746923	-3.772143	-1.259297
6	3.285901	-1.670316	1.686610	1	-4.297677	-3.647754	-2.205193
1	2.513167	-1.111992	2.240471	1	-4.479812	-3.807800	-0.437253
1	2.752406	-2.384612	1.036686	1	-3.244070	-4.751726	-1.296660
1	3.894445	-2.239933	2.401917	6	2.792567	-2.681302	-1.256087
7	3.449758	0.064212	-0.013410	6	3.801166	-3.806418	-1.553572
1	2.451930	-0.469232	-0.594151	1	4.468690	-3.999717	-0.698428

Structure S28. ¹TS8

27	0.104225	1.087599	-0.205587
8	-1.208680	-0.221556	-0.631378
8	1.398869	-0.268123	-0.525330
7	-1.122360	2.505994	-0.263072

1	3.254634	-4.739367	-1.765139
6	1.931519	-3.135348	-0.053777
1	1.192676	-2.372118	0.212830
1	2.568607	-3.330875	0.825074
1	1.398489	-4.069906	-0.296529
6	1.905370	-2.501342	-2.508935

6	-2.394862	1.037095	1.736285	1	2.559909	5.298199	0.730641
6	-1.323957	1.462568	0.864757	1	1.759837	3.778815	1.234424
6	2.922182	-3.343474	0.279867	6	-5.363782	3.147951	0.432690
6	2.217627	-3.399632	-1.096288	6	-5.586740	4.215576	1.519848
1	2.939999	-3.640938	-1.893115	6	-6.485985	2.100545	0.461449
1	1.748770	-2.436826	-1.329207	1	-5.409879	3.657526	-0.546084
1	1.437249	-4.179227	-1.096723	1	-4.820919	5.005542	1.466897
6	1.879705	-3.088067	1.394615	1	-6.578027	4.687921	1.416161
1	1.369142	-2.129347	1.248236	1	-5.531690	3.761988	2.524038
1	2.366494	-3.077124	2.383707	1	-6.320880	1.301028	-0.274942
1	1.122550	-3.890107	1.399143	1	-6.560897	1.622862	1.452384
6	3.549161	-4.726301	0.538769	1	-7.460287	2.573921	0.257222
1	4.048915	-4.776400	1.519230	6	7.800906	-1.864568	0.674554
1	4.282683	-5.001131	-0.235762	6	8.324251	-2.795069	-0.432990
1	2.758316	-5.493010	0.531213	6	8.036687	-2.477740	2.065484
6	-2.119216	0.035649	2.879433	1	8.383878	-0.928180	0.622702
6	-3.386864	-0.263115	3.702275	1	8.192765	-2.342195	-1.428494
1	-4.174356	-0.729054	3.089088	1	9.396178	-3.011497	-0.292085
1	-3.804819	0.643107	4.168248	1	7.787786	-3.758645	-0.429404
1	-3.140010	-0.967754	4.511813	1	7.698217	-1.797514	2.863012
6	-1.600190	-1.311304	2.327103	1	7.487887	-3.427509	2.179669
1	-0.653497	-1.178489	1.791744	1	9.106486	-2.691135	2.225842
1	-2.333519	-1.760916	1.639579	1	0.797708	0.710414	-1.595546
1	-1.431932	-2.019680	3.155377	6	-5.254805	-3.256132	-1.234447
6	-1.067652	0.640367	3.839868	6	-4.148263	-3.997104	-1.665763
1	-1.437817	1.581764	4.278215	6	-2.873386	-3.413828	-1.694240
1	-0.127550	0.845742	3.312100	6	-2.668617	-2.092503	-1.289241
1	-0.858821	-0.059861	4.666152	6	-3.782354	-1.355203	-0.847963
6	1.716028	3.697084	-1.532727	6	-5.057097	-1.914273	-0.820044
6	2.982709	3.578497	-0.569138	1	-4.267675	-5.030798	-1.990376
6	1.267197	5.153976	-1.715130	1	-2.025327	-4.011698	-2.039073
1	2.100680	5.771077	-2.075238	1	-3.671617	-0.325611	-0.500302
1	0.473224	5.224539	-2.473114	8	-6.121974	-1.144876	-0.428892
1	0.888036	5.594349	-0.782471	8	-6.530407	-3.719097	-1.181893
6	2.030829	3.095858	-2.916597	6	-6.685851	-1.459501	0.840339
1	1.107065	3.045329	-3.511844	1	-5.939408	-1.334298	1.644942
1	2.751746	3.720258	-3.462646	1	-7.509288	-0.752252	1.007987
1	2.439758	2.080526	-2.824655	1	-7.077783	-2.488800	0.863909
6	4.225125	4.249538	-1.171971	6	-6.793163	-5.054611	-1.569744
1	4.585162	3.723943	-2.067672	1	-6.248450	-5.778575	-0.937879
1	4.011075	5.291757	-1.442955	1	-7.872598	-5.210020	-1.442873
1	5.046980	4.278509	-0.441612	1	-6.526085	-5.232417	-2.626548
6	2.676727	4.207643	0.805210	6	-1.294466	-1.463194	-1.320681
1	3.508963	3.999944	1.494369	1	-1.076912	-0.998531	-0.340807

1 -0.520730 -2.233269 -1.458442
6 -1.120768 -0.370731 -2.331134
6 0.082236 -0.066482 -2.888008
1 -1.968073 0.309260 -2.476079
1 0.180302 0.760270 -3.595305
1 0.908812 -0.782132 -2.852844

Structure S30. 5

6 -1.186658 -0.563648 -0.014054
6 -0.217274 -1.520618 0.389319
6 1.094198 -1.146183 0.549493
6 1.514468 0.205079 0.317425
6 0.508978 1.166023 -0.054912
6 -0.804967 0.809641 -0.225477
1 -0.508178 -2.555468 0.562161
1 1.828317 -1.893308 0.854145
1 0.785014 2.208053 -0.228438
8 -1.710438 1.718785 -0.653267
8 -2.450430 -0.840680 -0.233029
6 -2.729758 2.120829 0.271936
1 -2.278168 2.553954 1.180434
1 -3.324052 2.888567 -0.239470
1 -3.381546 1.278252 0.547806
6 -2.970890 -2.170344 -0.073804
1 -2.857492 -2.505901 0.967742
1 -4.033545 -2.103405 -0.330304
1 -2.463484 -2.866007 -0.758569
6 2.818323 0.728422 1.037878
1 2.735789 1.763167 1.377362
1 3.216553 0.026659 1.775294
6 2.994250 0.438948 -0.367785
1 2.924714 1.287083 -1.055173
6 3.762471 -0.739876 -0.900852
1 3.312227 -1.127119 -1.826240
1 4.781368 -0.393627 -1.140547
1 3.850581 -1.555390 -0.170838

Structure S31. BF₄⁻

5 -0.000120 0.000083 0.000231
9 -1.074255 0.824353 0.377388
9 1.198710 0.530266 0.507853
9 -0.196881 -1.292383 0.516657

9 0.072493 -0.062282 -1.402027

Structure S32. ¹INT3

6 -2.697415 -0.034433 -0.050831
6 -2.583976 -1.404102 0.303055
6 -1.342241 -1.960286 0.505817
6 -0.152934 -1.179450 0.369347
6 -0.285648 0.209301 0.029827
6 -1.519598 0.774590 -0.185392
1 -3.475662 -2.019721 0.409949
1 -1.267087 -3.014527 0.775986
1 0.608455 0.823582 -0.077318
8 -1.624666 2.069944 -0.576695
8 -3.841207 0.577539 -0.287779
6 -2.115139 2.996142 0.397488
1 -1.455933 3.015935 1.282252
1 -2.108736 3.984556 -0.080098
1 -3.142547 2.749334 0.708891
6 -5.091278 -0.116212 -0.191649
1 -5.252045 -0.488398 0.831804
1 -5.861190 0.622024 -0.441982
1 -5.129361 -0.950228 -0.908949
6 1.155408 -1.638460 1.140176
1 1.727166 -0.790851 1.521461
1 0.965542 -2.456942 1.839705
6 1.195206 -1.923029 -0.269886
1 1.711400 -1.186706 -0.890768
6 1.062480 -3.297911 -0.861332
1 0.521996 -3.277272 -1.818774
1 2.082660 -3.666374 -1.061131
1 0.576470 -4.012786 -0.183314
5 3.372538 0.856356 -0.052047
9 2.557381 0.826675 -1.211158
9 4.376642 1.808371 -0.200388
9 2.551307 1.188855 1.054116
9 3.916222 -0.418366 0.151718

Structure S33. ¹TS12

6 -3.003311 -0.254023 -0.003170
6 -2.551448 -1.506293 0.451225
6 -1.206283 -1.702973 0.756260
6 -0.287644 -0.646625 0.644623

6	-0.739376	0.608684	0.181202
6	-2.074331	0.819540	-0.133768
1	-3.248202	-2.336614	0.559625
1	-0.872371	-2.685256	1.097588
1	-0.040782	1.439652	0.060287
8	-2.461921	2.029601	-0.620304
8	-4.269419	0.018551	-0.352485
6	-3.316427	2.818166	0.210334
1	-2.831245	3.031977	1.178892
1	-3.485656	3.763393	-0.322676
1	-4.282843	2.321213	0.386840
6	-5.263910	-0.995286	-0.269955
1	-5.385233	-1.354172	0.765734
1	-6.200266	-0.533184	-0.605654
1	-5.021459	-1.846995	-0.927176
6	1.195938	-0.837143	0.979498
1	1.655127	0.086245	1.346791
1	1.367354	-1.675060	1.665593
6	1.524092	-1.135754	-0.409619
1	1.550216	-0.284315	-1.091660
6	1.550242	-2.485073	-0.999934
1	0.750600	-2.583430	-1.752584
1	2.499340	-2.568318	-1.555359
1	1.478650	-3.287915	-0.255616
5	3.947098	0.622698	-0.020837
9	2.911173	1.396515	-0.567763
9	5.168428	0.954795	-0.573068
9	3.947950	0.740683	1.365919
9	3.663198	-0.768131	-0.347789

Structure S34. ¹INT4

6	-3.093260	-0.277251	0.024107
6	-2.594009	-1.484600	0.529501
6	-1.224734	-1.636042	0.786061
6	-0.325037	-0.592054	0.553286
6	-0.833560	0.621735	0.058248
6	-2.190316	0.793007	-0.207335
1	-3.265441	-2.321558	0.720576
1	-0.860837	-2.590501	1.175188
1	-0.170782	1.469517	-0.134135
8	-2.618637	1.980307	-0.733388
8	-4.393841	-0.042268	-0.279175
6	-3.442001	2.787365	0.105258

1	-2.915727	3.048540	1.041209
1	-3.655837	3.709651	-0.452783
1	-4.390214	2.283871	0.351416
6	-5.349144	-1.065894	-0.065204
1	-5.403086	-1.357517	0.998550
1	-6.319339	-0.655565	-0.373998
1	-5.127572	-1.961891	-0.671260
6	1.161323	-0.753003	0.779423
1	1.576628	0.163832	1.223113
1	1.366371	-1.578926	1.478537
6	1.904610	-1.017841	-0.525710
1	1.715635	-0.209255	-1.246167
6	1.691333	-2.376774	-1.143194
1	0.631503	-2.489038	-1.415547
1	2.300537	-2.490335	-2.051348
1	1.954362	-3.171657	-0.428550
5	4.153854	0.851519	0.121389
9	3.272293	1.573830	-0.570267
9	5.325307	0.564609	-0.432961
9	4.041576	0.822726	1.446542
9	3.323395	-0.917052	-0.230856

Structure S35. BF₃

5	0.000000	0.000433	0.000091
9	-1.139194	0.656956	-0.000017
9	1.138892	0.657479	-0.000017
9	0.000302	-1.314676	-0.000017

Structure S36. ³TS10

27	-0.861762	0.834171	-0.267587
8	-2.172895	-0.514303	-0.112391
8	0.386391	-0.551439	-0.604698
7	-2.137176	2.163591	-0.757287
7	0.424571	2.202280	-0.499196
6	-3.461333	-0.428713	-0.117237
6	-4.264274	-1.599458	0.170900
6	-5.644439	-1.456346	0.176988
1	-6.257510	-2.329098	0.401237
6	-6.329844	-0.240369	-0.090666
6	-5.562425	0.868119	-0.380427
1	-6.046460	1.825226	-0.601146
6	-4.142705	0.806606	-0.398700

6	-3.429027	2.000280	-0.738701	6	-0.425473	4.006052	0.937904
1	-4.064822	2.846673	-1.026509	1	0.514350	3.960315	1.505671
6	1.684955	2.005522	-0.748463	1	-0.796704	5.039096	0.980818
1	2.329862	2.881766	-0.875086	1	-1.155350	3.345199	1.418835
6	2.351197	0.750673	-0.951829	6	-2.428662	4.634548	-1.159905
6	3.717665	0.790794	-1.325100	1	-2.828112	4.735589	-0.141380
1	4.214184	1.765002	-1.378027	1	-1.872382	5.548888	-1.405582
6	4.413785	-0.355139	-1.656886	1	-3.275991	4.586593	-1.858837
6	3.706730	-1.583272	-1.597905	6	-1.256519	3.138072	-2.801451
1	4.257466	-2.485116	-1.865774	1	-2.198772	2.852858	-3.292328
6	2.364768	-1.698765	-1.252862	1	-0.868311	4.034805	-3.304512
6	1.645721	-0.493771	-0.910120	1	-0.539328	2.314686	-2.931609
6	-3.587033	-2.953035	0.463895	6	5.854679	-0.299127	-2.146258
6	-2.686571	-2.834229	1.715961	6	5.956263	-0.704105	-3.627572
1	-3.278834	-2.533390	2.595723	6	6.811764	-1.132666	-1.280933
1	-1.893361	-2.094880	1.560301	1	6.177068	0.754712	-2.071256
1	-2.215430	-3.806189	1.937688	1	5.304195	-0.078652	-4.257645
6	-2.733032	-3.380469	-0.751525	1	6.991110	-0.602829	-3.994775
1	-1.947427	-2.645686	-0.955960	1	5.652624	-1.754666	-3.770644
1	-3.362793	-3.488811	-1.650059	1	6.776317	-0.807180	-0.232626
1	-2.251118	-4.352616	-0.555451	1	6.547758	-2.202691	-1.311028
6	-4.615557	-4.067394	0.732983	1	7.848673	-1.038426	-1.643396
1	-5.279964	-4.234548	-0.129706	6	-7.849848	-0.181552	-0.057253
1	-5.241669	-3.851132	1.613305	6	-8.403723	-0.500154	1.342103
1	-4.085411	-5.012562	0.929447	6	-8.483270	-1.093627	-1.121749
6	1.623802	-3.049998	-1.308809	1	-8.136796	0.857086	-0.298167
6	2.573914	-4.217695	-1.633739	1	-7.981368	0.177262	2.101092
1	3.368083	-4.322072	-0.876629	1	-9.501423	-0.399289	1.363209
1	3.052217	-4.106196	-2.619564	1	-8.159580	-1.533152	1.641330
1	2.003792	-5.160037	-1.649983	1	-8.117592	-0.842317	-2.129914
6	0.938188	-3.372681	0.039370	1	-8.243669	-2.153289	-0.932383
1	0.233912	-2.584077	0.324915	1	-9.581498	-0.996491	-1.119736
1	1.687829	-3.485011	0.837718	6	4.332085	-0.501663	2.125493
1	0.385175	-4.323015	-0.039639	6	3.196214	-1.318680	2.156965
6	0.560306	-2.976094	-2.431016	6	1.928797	-0.786721	2.401867
1	1.042542	-2.806795	-3.407750	6	1.751663	0.583876	2.610048
1	-0.148192	-2.159906	-2.242725	6	2.887099	1.403674	2.538838
1	-0.006117	-3.920398	-2.487635	6	4.167457	0.892911	2.304454
6	-0.164441	3.574574	-0.513786	1	3.295775	-2.390724	1.997163
6	-1.521008	3.404258	-1.305560	1	1.073953	-1.463203	2.420591
6	0.750108	4.617398	-1.173070	1	2.803689	2.484950	2.675601
1	0.212437	5.568422	-1.284416	8	5.202867	1.785074	2.329526
1	1.626848	4.823384	-0.541962	8	5.600959	-0.971946	1.954607
1	1.105174	4.307056	-2.164914	6	6.239019	1.704075	1.356433

1	5.843972	1.404418	0.373851	6	3.542637	-2.997060	-0.366396
1	6.674177	2.711508	1.277652	6	2.572227	-2.892534	-1.566574
1	7.021553	0.989349	1.651342	1	3.116402	-2.613387	-2.483711
6	5.794601	-2.366700	1.817899	1	1.796772	-2.142111	-1.377064
1	5.274897	-2.765081	0.929479	1	2.079565	-3.862855	-1.743165
1	6.874460	-2.521365	1.695817	6	2.761330	-3.403693	0.902639
1	5.449121	-2.913333	2.713277	1	1.995077	-2.660045	1.142596
6	0.401426	1.166475	2.965753	1	3.443579	-3.503555	1.763125
1	0.237979	0.992608	4.055481	1	2.262270	-4.375001	0.749641
1	0.436971	2.263246	2.874983	6	4.552131	-4.117666	-0.678088
6	-0.796839	0.619360	2.240174	1	5.261894	-4.277845	0.149085
1	-0.752832	-0.445303	1.998387	1	5.130231	-3.913452	-1.593446
6	-2.136274	1.094452	2.723359	1	4.009246	-5.063189	-0.834247
1	-2.346477	0.707340	3.743353	6	-1.597509	-3.013012	1.350061
1	-2.186945	2.194087	2.797815	6	-2.533730	-4.172286	1.739533
1	-2.958157	0.758825	2.077372	1	-3.329973	-4.324401	0.992792

Structure S37. Co^{III}(salen)-alkyl

27	0.853036	0.847040	0.207603	1	-1.952826	-5.106097	1.801198
8	2.161461	-0.536634	0.252385	6	-0.917982	-3.395028	0.015745
8	-0.403788	-0.535239	0.487255	1	-0.205236	-2.625711	-0.296573
7	2.154827	2.194048	0.565121	1	-1.669490	-3.526907	-0.778202
7	-0.418552	2.235176	0.491297	1	-0.375821	-4.348062	0.129992
6	3.447711	-0.455672	0.140711	6	-0.527588	-2.873679	2.459682
6	4.234009	-1.638529	-0.138934	1	-1.004956	-2.657545	3.429498
6	5.614443	-1.502494	-0.212280	1	0.173554	-2.063304	2.223849
1	6.214173	-2.387167	-0.425608	1	0.047646	-3.808627	2.561141
6	6.313735	-0.280628	-0.030164	6	0.155885	3.614427	0.549470
6	5.560081	0.846778	0.227942	6	1.577806	3.419257	1.198889
1	6.054393	1.812991	0.373834	6	-0.708743	4.578942	1.380221
6	4.144258	0.791539	0.301433	1	-0.156869	5.509927	1.567926
6	3.440383	2.003536	0.603604	1	-1.620689	4.859035	0.833438
1	4.079448	2.835813	0.923750	1	-1.005698	4.154900	2.348647
6	-1.680913	2.032058	0.732736	6	0.277071	4.193884	-0.868954
1	-2.327652	2.905654	0.872590	1	-0.702725	4.162788	-1.366046
6	-2.346830	0.776638	0.920387	1	0.597478	5.243843	-0.831842
6	-3.715966	0.812218	1.288610	1	0.997787	3.630764	-1.471540
1	-4.217751	1.784350	1.331300	6	2.468615	4.657172	1.005961
6	-4.408789	-0.335270	1.618138	1	2.802726	4.763575	-0.035036
6	-3.688578	-1.557335	1.590119	1	1.923583	5.567236	1.290761
1	-4.230782	-2.457129	1.880511	1	3.358147	4.612492	1.649969
6	-2.349248	-1.671311	1.241438	6	1.454431	3.111601	2.707157
6	-1.643363	-0.469378	0.852596	1	2.437311	2.814010	3.100859
				1	1.116722	3.993016	3.269759
				1	0.750219	2.284881	2.885232

6 -5.863923 -0.296464 2.063121
 6 -6.007601 -0.665424 3.550182
 6 -6.769564 -1.177083 1.187467
 1 -6.207409 0.747142 1.949148
 1 -5.395898 -0.005333 4.185369
 1 -7.057274 -0.584215 3.878359
 1 -5.680290 -1.702806 3.732142
 1 -6.689746 -0.894514 0.128796
 1 -6.493332 -2.241167 1.272815
 1 -7.823666 -1.084732 1.497068
 6 7.831612 -0.230769 -0.122368
 6 8.333208 -0.619188 -1.523811
 6 8.500620 -1.093648 0.961191
 1 8.130483 0.816887 0.057322
 1 7.885256 0.022569 -2.298939
 1 9.429695 -0.524425 -1.589676
 1 8.075443 -1.664344 -1.763354
 1 8.172850 -0.792407 1.968739
 1 8.250394 -2.159861 0.831816
 1 9.598390 -1.002402 0.914705
 6 -4.318339 -0.555038 -2.188518
 6 -3.163485 -1.346939 -2.177618
 6 -1.893691 -0.773695 -2.281004
 6 -1.735077 0.610744 -2.373751
 6 -2.895203 1.398994 -2.374983
 6 -4.175842 0.849146 -2.291626
 1 -3.248090 -2.428935 -2.089395
 1 -1.021274 -1.426416 -2.257831
 1 -2.828095 2.488076 -2.438467
 8 -5.234538 1.712498 -2.373813
 8 -5.586466 -1.052617 -2.123025
 6 -6.290914 1.621328 -1.423809
 1 -5.904355 1.399764 -0.416704
 1 -6.786288 2.603466 -1.409569
 1 -7.022355 0.846502 -1.697394
 6 -5.764476 -2.451299 -2.006586
 1 -5.287177 -2.848228 -1.093754
 1 -6.846973 -2.623732 -1.945160
 1 -5.362277 -2.986771 -2.884845
 6 -0.383009 1.261161 -2.543347
 1 -0.121012 1.169784 -3.618718
 1 -0.481680 2.339013 -2.378771
 6 0.822693 0.707703 -1.784641
 1 0.811812 -0.389419 -1.825116

6 2.113954 1.215634 -2.407051
 1 2.167200 0.898277 -3.465874
 1 2.177412 2.314777 -2.400160
 1 3.009060 0.825711 -1.912189

Structure S38. [Co^{IV}(salen)-alkyl]⁺

27 0.844961 0.867528 0.226707
 8 2.126403 -0.497447 0.222845
 8 -0.391958 -0.472607 0.480878
 7 2.124298 2.185425 0.601727
 7 -0.424036 2.243528 0.456194
 6 3.420024 -0.442007 0.137108
 6 4.187686 -1.633790 -0.138622
 6 5.567473 -1.501821 -0.196030
 1 6.163301 -2.388331 -0.408184
 6 6.276704 -0.284780 0.001861
 6 5.538932 0.849253 0.264214
 1 6.039055 1.808832 0.422885
 6 4.120881 0.800287 0.322108
 6 3.418625 2.001067 0.620079
 1 4.048988 2.847584 0.911441
 6 -1.695864 2.048300 0.668828
 1 -2.336917 2.929529 0.768100
 6 -2.361267 0.802348 0.876051
 6 -3.728668 0.834516 1.242672
 1 -4.242242 1.799472 1.268020
 6 -4.398138 -0.320090 1.598286
 6 -3.664137 -1.533622 1.584644
 1 -4.194635 -2.434482 1.889417
 6 -2.322945 -1.641105 1.236876
 6 -1.646347 -0.433633 0.838292
 6 3.495863 -2.990541 -0.365001
 6 2.531183 -2.893978 -1.569868
 1 3.072591 -2.597897 -2.482595
 1 1.735281 -2.165170 -1.383330
 1 2.057388 -3.871209 -1.753539
 6 2.717932 -3.387415 0.908722
 1 1.954629 -2.642970 1.154081
 1 3.402887 -3.487189 1.766187
 1 2.214860 -4.356273 0.760177
 6 4.508833 -4.110006 -0.669459
 1 5.216067 -4.265506 0.160187
 1 5.086675 -3.909916 -1.585586

6	3.295951	0.283592	0.739297	1	0.093148	-0.904868	2.833447
6	4.140797	-0.816086	1.150343	1	-0.101089	-2.366422	3.829974
6	5.487602	-0.745918	0.827872	6	-0.124672	3.886893	-0.791824
1	6.130788	-1.580695	1.103870	6	1.259355	4.132126	-0.083733
6	6.106707	0.351998	0.167789	6	-1.062487	5.094306	-0.651640
6	5.315045	1.436307	-0.139876	1	-0.555276	6.005608	-0.994891
1	5.753131	2.322877	-0.608643	1	-1.955152	4.974949	-1.282341
6	3.920007	1.431357	0.136555	1	-1.390291	5.252014	0.384600
6	3.180550	2.628504	-0.122784	6	0.077224	3.589169	-2.288300
1	3.786761	3.491664	-0.418881	1	-0.865726	3.230570	-2.725352
6	-1.932705	2.520862	0.109830	1	0.371696	4.495567	-2.834351
1	-2.609116	3.327022	-0.193807	1	0.856738	2.829630	-2.439899
6	-2.568829	1.429556	0.779352	6	2.119180	5.160798	-0.830310
6	-3.951809	1.560373	1.063869	1	2.461274	4.794438	-1.807835
1	-4.475810	2.454060	0.713315	1	1.545675	6.083153	-0.991331
6	-4.632747	0.594670	1.774075	1	3.002272	5.440084	-0.237941
6	-3.895552	-0.540721	2.196932	6	1.063376	4.599296	1.373354
1	-4.436886	-1.295962	2.766097	1	2.031476	4.581522	1.895038
6	-2.541435	-0.741663	1.948938	1	0.674794	5.626578	1.409250
6	-1.839888	0.269894	1.195821	1	0.370716	3.936406	1.911742
6	3.560434	-1.990635	1.959407	6	-6.105709	0.752277	2.122407
6	2.407526	-2.672105	1.193486	6	-6.334305	0.779316	3.643048
1	2.728841	-3.011387	0.199828	6	-6.974366	-0.319773	1.446974
1	1.559571	-1.993520	1.068112	1	-6.423036	1.731639	1.723307
1	2.051909	-3.552739	1.752896	1	-5.737629	1.571008	4.123565
6	3.050095	-1.439501	3.311653	1	-7.396689	0.959770	3.876116
1	2.292112	-0.660642	3.160948	1	-6.052727	-0.181095	4.106117
1	3.880809	-1.013940	3.898253	1	-6.826044	-0.308492	0.358584
1	2.591931	-2.248664	3.903560	1	-6.711088	-1.327673	1.809422
6	4.623147	-3.064941	2.256135	1	-8.042456	-0.155887	1.666344
1	5.469414	-2.670110	2.840566	6	7.592905	0.323660	-0.152841
1	5.018941	-3.514387	1.331495	6	7.937675	-0.807782	-1.136310
1	4.164962	-3.873353	2.846830	6	8.452744	0.233106	1.119464
6	-1.794198	-1.970684	2.504546	1	7.833316	1.280289	-0.648470
6	-2.710143	-2.866945	3.359111	1	7.349358	-0.723274	-2.063572
1	-3.554080	-3.271332	2.777627	1	9.006875	-0.781662	-1.402872
1	-3.117497	-2.333012	4.232552	1	7.728843	-1.796574	-0.695330
1	-2.130163	-3.724562	3.734729	1	8.230424	1.061202	1.810850
6	-1.245778	-2.833436	1.349415	1	8.272841	-0.712362	1.657462
1	-0.614631	-2.252560	0.671743	1	9.525368	0.272539	0.868854
1	-2.069663	-3.261503	0.760338	6	-4.309261	-1.223894	-1.640415
1	-0.640363	-3.664069	1.745670	6	-3.261548	-2.149242	-1.565852
6	-0.629280	-1.497254	3.405122	6	-1.952109	-1.777544	-1.880694
1	-1.007949	-0.887004	4.242087	6	-1.658499	-0.470029	-2.277207

6 -2.712056 0.452457 -2.366959
6 -4.021512 0.100482 -2.048789
1 -3.455123 -3.173749 -1.251060
1 -1.158408 -2.518045 -1.805237
1 -2.534939 1.486684 -2.668307
8 -4.990896 1.067343 -2.071409
8 -5.601417 -1.502059 -1.336425
6 -6.000727 0.931021 -3.067661
1 -6.579152 0.003084 -2.936161
1 -6.672353 1.794353 -2.959611
1 -5.560054 0.943294 -4.081088
6 -5.925951 -2.778582 -0.814859
1 -5.371910 -2.984303 0.117273
1 -7.000800 -2.759612 -0.595135
1 -5.718892 -3.580818 -1.544088
6 -0.265734 -0.063793 -2.680528
1 -0.047463 -0.386656 -3.719158
1 -0.164916 1.033138 -2.747521
6 0.883505 -0.545780 -1.902087
1 0.723641 -1.121526 -0.985586
6 2.256557 -0.296674 -2.326923
1 2.808823 -1.250315 -2.283975
1 2.330243 0.169399 -3.317438
1 2.761394 0.341460 -1.577261
5 1.338272 -3.703913 -2.345501
9 0.629910 -3.795696 -1.143813
9 1.186095 -4.852637 -3.107640
9 0.811669 -2.583753 -3.077536
9 2.697668 -3.448263 -2.095835

Structure S40. ¹TS13

6 3.078875 -0.326086 -0.024937
6 2.457776 -1.544432 -0.353794
6 1.086003 -1.704841 -0.182064
6 0.298209 -0.660614 0.341846
6 0.922355 0.577302 0.633576
6 2.286175 0.753623 0.470157
1 3.046175 -2.376787 -0.737655
1 0.630154 -2.661732 -0.439899
1 0.341259 1.418511 1.017344
8 2.857393 1.931345 0.838648
8 4.390938 -0.087925 -0.130128
6 3.386404 2.749586 -0.207595

1 2.597159 3.015608 -0.932424
1 3.758974 3.665515 0.270094
1 4.214378 2.250480 -0.734220
6 5.265105 -1.102075 -0.615983
1 5.002828 -1.394221 -1.646192
1 6.271615 -0.666935 -0.606165
1 5.244344 -1.990624 0.036081
6 -1.383967 -0.409916 -0.784226
1 -1.341614 0.647448 -1.041282
1 -1.276967 -1.138070 -1.590240
6 -1.217615 -0.827872 0.596195
1 -1.551662 -0.052504 1.295655
6 -1.731089 -2.201998 0.991714
1 -1.298643 -2.509016 1.955005
1 -2.822876 -2.138550 1.090817
1 -1.496971 -2.969645 0.239545
5 -4.082371 0.528923 -0.190470
9 -4.225619 -0.135498 1.022005
9 -5.297651 0.841352 -0.761959
9 -3.264741 1.648557 -0.048365
9 -3.387805 -0.388579 -1.109637

Structure S41. 6

6 1.746541 -0.516891 0.038650
6 0.827403 -1.552025 -0.179851
6 -0.548555 -1.318699 -0.063855
6 -1.048187 -0.053489 0.269839
6 -0.119743 0.981482 0.470398
6 1.254732 0.771799 0.364500
1 1.175902 -2.553581 -0.431973
1 -1.233155 -2.153205 -0.233704
1 -0.453213 1.990131 0.726965
8 2.105303 1.810463 0.630337
8 3.095513 -0.650931 -0.022206
6 2.853458 2.316197 -0.472175
1 2.182572 2.673324 -1.274608
1 3.440822 3.165186 -0.095037
1 3.536860 1.556761 -0.883978
6 3.649965 -1.913159 -0.345239
1 3.333106 -2.254336 -1.346715
1 4.740270 -1.785271 -0.339029
1 3.373466 -2.681487 0.398119
6 -3.172113 0.147589 -1.016837

1 -2.679578 0.856334 -1.703928
1 -3.089129 -0.869487 -1.439477
6 -2.541002 0.213117 0.374481
1 -2.676246 1.249454 0.727714
6 -3.266034 -0.721180 1.352815
1 -2.847116 -0.629212 2.366411
1 -4.336841 -0.471442 1.391984
1 -3.178140 -1.774889 1.042071
9 -4.523879 0.475223 -0.947358

Structure S42. 7

6 -1.917589 -0.592120 -0.090184
6 -0.968849 -1.590981 0.169932
6 0.394322 -1.280069 0.214821
6 0.863650 0.025147 0.008202
6 -0.097122 1.018396 -0.240266
6 -1.462568 0.731780 -0.292811
1 -1.283879 -2.622484 0.328889
1 1.110088 -2.082646 0.409906
1 0.180652 2.058672 -0.409822
8 -2.336276 1.743953 -0.594253
8 -3.257986 -0.795788 -0.179984
6 -3.213407 2.151954 0.451059
1 -2.644439 2.497330 1.333655
1 -3.807358 2.990423 0.060416
1 -3.891431 1.338529 0.755122
6 -3.769951 -2.100489 0.016265
1 -3.537266 -2.484183 1.025615
1 -4.859729 -2.028497 -0.096338
1 -3.377384 -2.809959 -0.733643
6 2.371267 0.315858 0.105807
6 3.128461 -0.693986 -0.732408
1 2.702403 -0.922269 -1.715091
6 4.535326 -1.098196 -0.446499
1 4.919280 -1.792593 -1.208864
1 5.223751 -0.227084 -0.419013
1 4.640286 -1.588778 0.538989
6 2.786435 0.239286 1.596140
1 2.609508 -0.765726 2.009037
1 3.853116 0.480721 1.726337
1 2.201255 0.959061 2.189302
6 2.724148 1.731079 -0.419010
1 2.394196 1.866916 -1.460298

1 2.262215 2.520051 0.196646
1 3.814093 1.881241 -0.383240

Structure S43. 8

6 -1.726290 -0.578984 -0.037075
6 -0.794801 -1.607346 0.239818
6 0.557031 -1.379663 0.091474
6 1.057016 -0.112357 -0.328932
6 0.097424 0.914947 -0.605592
6 -1.255353 0.707584 -0.467397
1 -1.139358 -2.590509 0.556623
1 1.242308 -2.200366 0.296060
1 0.413722 1.896932 -0.956879
8 -2.128778 1.684976 -0.810192
8 -3.035244 -0.711754 0.051952
6 -2.875999 2.296764 0.248368
1 -2.197013 2.756436 0.986679
1 -3.487928 3.079852 -0.217339
1 -3.532992 1.571612 0.752024
6 -3.631067 -1.952841 0.450828
1 -3.311313 -2.228703 1.467294
1 -4.713044 -1.781622 0.436389
1 -3.371593 -2.752672 -0.259213
6 2.534193 0.415487 0.486867
6 2.521974 0.028569 -0.912068
1 2.536187 0.874581 -1.607610
6 3.212994 -1.193531 -1.476077
1 2.725997 -1.506509 -2.410704
1 4.257738 -0.930053 -1.703349
1 3.227431 -2.048368 -0.788955
6 3.023339 -0.499268 1.581843
1 3.037576 -1.560512 1.314978
1 4.061737 -0.202392 1.806441
1 2.433938 -0.364734 2.500102
6 2.523785 1.872794 0.879194
1 2.236914 2.544611 0.062011
1 1.872804 2.050373 1.747277
1 3.553589 2.133321 1.176597

Structure S44. ¹TS14

6 -3.244945 -0.245771 -0.299958
6 -2.695123 -1.526143 -0.115005

6 -1.379352 -1.678944 0.316061
6 -0.573228 -0.562456 0.603632
6 -1.131349 0.721515 0.409385
6 -2.438734 0.893349 -0.026971
1 -3.291793 -2.415297 -0.315348
1 -0.991250 -2.690121 0.431719
1 -0.558319 1.628687 0.598083
8 -2.905323 2.155463 -0.238196
8 -4.490546 -0.002958 -0.736770
6 -3.931844 2.618466 0.640925
1 -3.586140 2.601764 1.689646
1 -4.148832 3.655486 0.351335
1 -4.848260 2.015234 0.548828
6 -5.362502 -1.087800 -1.030081
1 -5.544714 -1.708395 -0.136688
1 -6.308028 -0.640141 -1.359755
1 -4.957474 -1.719548 -1.838072
6 0.901029 -0.721198 1.093180
6 1.395544 -0.599271 -0.290889
1 1.442400 0.424440 -0.672926
6 1.528477 -1.666508 -1.302752
1 0.675730 -1.600946 -1.999391
1 2.427835 -1.438769 -1.893787
1 1.584549 -2.676223 -0.880886
5 4.064098 0.651151 -0.554878
9 4.065898 0.308165 -1.903978
9 5.337404 0.824133 -0.055420
9 3.258228 1.770395 -0.333853
9 3.448927 -0.466298 0.166796
6 1.353086 0.440175 1.993524
1 0.685325 0.518994 2.863629
1 2.377068 0.247143 2.337564
1 1.373786 1.400823 1.463745
6 1.193038 -2.058539 1.780047
1 2.273131 -2.126971 1.971774
1 0.657753 -2.105593 2.739331
1 0.905009 -2.935163 1.186804

Structure S45. 9

6 -2.162712 -0.493220 -0.069737
6 -1.391118 -1.607865 0.274351
6 -0.008265 -1.488661 0.477113
6 0.650695 -0.261087 0.349632

6 -0.142411 0.856625 0.019936
6 -1.514859 0.761745 -0.192470
1 -1.855678 -2.588261 0.380144
1 0.544285 -2.391684 0.735191
1 0.291873 1.852117 -0.089114
8 -2.206178 1.883766 -0.563195
8 -3.497771 -0.512259 -0.311261
6 -3.132906 2.398725 0.389151
1 -2.623870 2.659294 1.334947
1 -3.563417 3.311184 -0.046837
1 -3.941710 1.681148 0.599965
6 -4.200030 -1.736712 -0.199276
1 -4.136854 -2.151719 0.822229
1 -5.250013 -1.516404 -0.432106
1 -3.822974 -2.489049 -0.914312
6 2.164255 -0.095454 0.549916
6 2.782902 0.432027 -0.775786
1 2.362326 1.429871 -0.988416
6 2.622056 -0.454675 -1.996221
1 1.557711 -0.605278 -2.226317
1 3.103663 0.021278 -2.863371
1 3.090233 -1.437475 -1.839523
9 4.159070 0.632619 -0.567215
6 2.435972 0.950065 1.656205
1 2.005997 0.615492 2.612762
1 3.518869 1.090533 1.787671
1 1.998089 1.929613 1.411526
6 2.860093 -1.406507 0.954494
1 3.943471 -1.236728 1.028426
1 2.499730 -1.753357 1.934635
1 2.696219 -2.216250 0.229232

Structure S46. 1TS15

6 -3.509841 -0.423897 0.006827
6 -2.713485 -1.555135 0.235973
6 -1.345829 -1.532040 -0.053133
6 -0.741156 -0.388452 -0.588992
6 -1.539667 0.751676 -0.799984
6 -2.901598 0.749885 -0.518752
1 -3.154350 -2.469222 0.632153
1 -0.765170 -2.437462 0.131067
1 -1.116602 1.668195 -1.216024
8 -3.638193 1.857831 -0.814005

8 -4.837173 -0.358315 0.229624
 6 -4.194113 2.575471 0.288217
 1 -3.399086 2.917116 0.974806
 1 -4.704276 3.452380 -0.132983
 1 -4.920277 1.964860 0.846656
 6 -5.517653 -1.490970 0.750001
 1 -5.128795 -1.774240 1.743106
 1 -6.571556 -1.200896 0.844196
 1 -5.438653 -2.355488 0.069066
 6 1.350445 -0.064609 0.427523
 6 0.763728 -0.335133 -0.914614
 1 0.932124 0.564706 -1.522058
 6 1.319754 -1.555173 -1.647076
 1 0.851169 -1.631016 -2.638569
 1 2.405721 -1.441207 -1.767849
 1 1.129100 -2.495889 -1.111873
 6 1.877977 -1.169921 1.249802
 1 2.722303 -1.636966 0.718483
 1 2.207118 -0.839182 2.240282
 1 1.102900 -1.948097 1.343591
 6 1.211447 1.261674 1.055716
 1 0.864005 2.042907 0.370845
 1 0.512106 1.165739 1.906073
 1 2.191137 1.518462 1.488868
 5 4.518813 0.292000 0.078382
 9 5.528935 1.034679 -0.505042
 9 4.344899 0.633684 1.425598
 9 3.278085 0.584451 -0.603187
 9 4.751403 -1.081824 -0.049119

Structure S47. 10

6 -2.184323 -0.526953 -0.037859
 6 -1.306041 -1.594892 0.186596
 6 0.064327 -1.457549 -0.070205
 6 0.602227 -0.257807 -0.551835
 6 -0.288421 0.808379 -0.768153
 6 -1.655450 0.695279 -0.522281
 1 -1.682631 -2.549763 0.553330
 1 0.712036 -2.317214 0.110740
 1 0.071471 1.768518 -1.145376
 8 -2.470952 1.757655 -0.805721
 8 -3.526866 -0.569963 0.155492
 6 -3.072637 2.406848 0.310798

1 -2.304147 2.794264 1.004410
 1 -3.652185 3.252060 -0.086461
 1 -3.747354 1.731150 0.860226
 6 -4.116012 -1.763748 0.637789
 1 -3.723640 -2.040215 1.632512
 1 -5.193296 -1.568826 0.719454
 1 -3.954564 -2.606949 -0.056788
 6 2.889204 0.299061 0.466557
 6 2.089779 -0.074684 -0.816348
 1 2.197085 0.812107 -1.462894
 6 2.720839 -1.253277 -1.571771
 1 2.216623 -1.396620 -2.539469
 1 3.785923 -1.055657 -1.757601
 1 2.646759 -2.199902 -1.016016
 6 2.986393 -0.813908 1.502330
 1 3.412353 -1.728301 1.065974
 1 3.639823 -0.490822 2.326526
 1 1.995401 -1.048888 1.915096
 6 2.402174 1.601491 1.090546
 1 2.380231 2.405688 0.339441
 1 1.391097 1.485327 1.505257
 1 3.083641 1.899571 1.901408
 9 4.212840 0.549278 0.021676

Structure S48. Co^{II}(salen)

27 -0.649678 0.000057 -0.000014
 8 0.684544 1.309226 -0.053179
 8 0.684302 -1.309359 0.053138
 7 -2.019662 1.262437 0.295468
 7 -2.019900 -1.262070 -0.295479
 6 0.609697 2.599673 0.032758
 6 1.807791 3.394850 -0.123029
 6 1.692730 4.774421 0.000562
 1 2.581666 5.396725 -0.105381
 6 0.468460 5.432508 0.258480
 6 -0.682044 4.687220 0.386935
 1 -1.643600 5.174560 0.575760
 6 -0.639585 3.273252 0.273420
 6 -1.872123 2.551392 0.390235
 1 -2.760961 3.167381 0.578093
 6 -3.319159 0.598124 0.484068
 1 -3.306926 0.174895 1.506913
 6 -3.319271 -0.597512 -0.484079

1 -3.306954 -0.174284 -1.506924
6 -4.575544 -1.454468 -0.326061
1 -4.565770 -1.932235 0.669666
1 -4.586121 -2.263032 -1.073650
6 -5.835309 -0.592446 -0.484165
1 -5.888748 -0.216173 -1.521627
1 -6.732309 -1.213747 -0.330403
6 -5.835199 0.593536 0.484138
1 -5.888718 0.217272 1.521599
1 -6.732080 1.215008 0.330369
6 -4.575269 1.455318 0.326043
1 -4.585699 2.263881 1.073634
1 -4.565396 1.933085 -0.669683
6 -1.872607 -2.551055 -0.390213
1 -2.761564 -3.166880 -0.578045
6 -0.640204 -3.273146 -0.273389
6 -0.682932 -4.687109 -0.386852
1 -1.644583 -5.174274 -0.575649
6 0.467432 -5.432612 -0.258380
6 1.691828 -4.774747 -0.000496
1 2.580647 -5.397215 0.105462
6 1.807152 -3.395192 0.123036
6 0.609208 -2.599795 -0.032766
6 3.154742 2.708268 -0.423945
6 3.053479 1.937718 -1.761297
1 2.840003 2.629721 -2.593077
1 2.259891 1.181435 -1.727325
1 4.006157 1.428870 -1.983750
6 3.519245 1.735463 0.721179
1 2.762684 0.951205 0.832880
1 3.606425 2.276554 1.678181
1 4.489874 1.253352 0.518155
6 4.302870 3.724732 -0.557636
1 4.463656 4.297053 0.370235
1 4.134335 4.440442 -1.378465
1 5.241177 3.191302 -0.778643
6 3.154227 -2.708843 0.423923
6 4.302125 -3.725524 0.557965
1 4.462869 -4.298106 -0.369753
1 4.133363 -4.440996 1.378953
1 5.240527 -3.192243 0.778924
6 3.519061 -1.736379 -0.721384
1 2.762683 -0.951982 -0.833341
1 3.606222 -2.277707 -1.678253

1 4.489775 -1.254433 -0.518369
6 3.052985 -1.937960 1.761083
1 2.839263 -2.629721 2.593001
1 2.259562 -1.181512 1.726842
1 4.005747 -1.429264 1.983524
1 0.443210 -6.521090 -0.347312
1 0.444446 6.520988 0.347452

Structure S49. 11

6 3.388858 -1.347258 -0.470826
6 3.997348 -0.094406 -0.360219
6 2.029946 -1.470167 -0.188075
6 1.263253 -0.350776 0.174574
6 1.871490 0.919757 0.308886
6 3.245684 1.013737 0.035942
1 3.970036 -2.223920 -0.767025
1 5.063966 0.020395 -0.571085
1 1.539061 -2.443954 -0.247868
6 -0.175821 -0.639425 0.495219
6 1.119797 2.152566 0.747457
1 3.737867 1.984273 0.145302
8 -0.507411 -1.588725 1.185550
7 -1.127051 0.247521 0.000195
9 -0.667251 0.873431 -1.175262
6 -2.587479 -0.027950 -0.112363
1 0.363753 1.926261 1.513487
1 0.585070 2.609758 -0.100035
1 1.809974 2.904555 1.157968
6 -3.140999 -0.240684 1.306096
6 -2.821376 -1.256104 -1.003928
6 -3.244937 1.221505 -0.719083
1 -2.735644 -1.146228 1.770477
1 -4.236788 -0.331278 1.248575
1 -2.901130 0.620621 1.949067
1 -3.011931 2.118584 -0.124626
1 -4.336519 1.084098 -0.722058
1 -2.919424 1.395906 -1.753225
1 -2.380022 -2.155964 -0.551682
1 -2.369142 -1.101309 -1.996134
1 -3.899808 -1.430283 -1.141630

Structure S50. ²INT5

9	0.815954	-0.347355	1.164778	1	1.290104	-1.630287	-3.295723
7	1.006114	-0.570415	2.552814	6	3.297250	-1.558172	-2.503167
6	-0.187957	-1.270394	3.105193	1	3.796492	-1.249348	-1.570276
6	-0.140441	-1.156747	4.637063	1	3.663029	-0.894611	-3.302370
1	0.686683	-1.731668	5.067658	6	3.662233	-3.010323	-2.836494
1	-0.035070	-0.104859	4.944883	1	3.259406	-3.270829	-3.832054
1	-1.090449	-1.537095	5.043126	1	4.757706	-3.108255	-2.907364
6	-0.186153	-2.734440	2.644621	6	3.106864	-3.986983	-1.796394
1	0.698165	-3.264823	3.027600	1	3.587012	-3.792087	-0.820633
1	-1.087682	-3.250388	3.008060	1	3.358542	-5.024576	-2.069096
1	-0.189237	-2.786067	1.546614	6	1.586706	-3.844324	-1.644861
6	-1.430335	-0.531507	2.585955	1	1.227873	-4.526410	-0.858078
1	-2.330177	-1.012284	2.995909	1	1.082749	-4.136843	-2.583236
1	-1.421963	0.521396	2.904651	6	1.995581	1.002275	-2.051450
1	-1.498665	-0.557413	1.493544	1	2.999400	0.925204	-2.486883
6	2.336555	-0.893117	2.799493	6	1.595540	2.325220	-1.665222
8	2.651639	-1.560299	3.769883	6	2.530957	3.377583	-1.832555
6	3.355853	-0.350015	1.836799	1	3.491315	3.160314	-2.309931
6	3.388719	0.990627	1.383111	6	2.240800	4.649811	-1.389694
6	4.363220	-1.254078	1.462031	6	1.006821	4.890132	-0.742983
6	4.442482	1.359268	0.530452	1	0.821667	5.900536	-0.377178
6	5.391430	-0.866193	0.604018	6	0.043343	3.907428	-0.550261
6	5.426342	0.450034	0.135235	6	0.317067	2.580354	-1.056653
1	4.486763	2.391289	0.174221	6	-5.029589	0.210421	-0.200687
1	6.161213	-1.583321	0.308924	6	-4.866315	0.942478	-1.553019
1	6.227632	0.774606	-0.534073	1	-5.412935	0.412740	-2.351048
27	-0.453969	-0.199926	-1.194494	1	-3.811533	1.014198	-1.844019
8	-2.283228	-0.340119	-0.780460	1	-5.275415	1.964421	-1.486305
8	-0.576816	1.654234	-0.924087	6	-4.313392	1.004570	0.916601
7	-0.200253	-2.071064	-1.158472	1	-3.245607	1.116145	0.702764
7	1.296431	-0.082195	-1.906581	1	-4.426907	0.498303	1.889404
6	-3.030735	-1.383575	-0.600531	1	-4.753880	2.010950	1.009908
6	-4.433562	-1.208353	-0.299478	6	-6.531540	0.182249	0.134953
6	-5.203622	-2.349040	-0.101586	1	-6.732738	-0.292154	1.109113
1	-6.263830	-2.245122	0.130416	1	-7.122076	-0.343515	-0.632660
6	-4.683844	-3.660478	-0.181991	1	-6.914199	1.213930	0.190008
6	-3.348606	-3.838491	-0.469955	6	-1.262713	4.175440	0.222607
1	-2.922412	-4.844352	-0.535141	6	-1.355566	5.631509	0.711722
6	-2.502514	-2.720058	-0.681288	1	-1.359349	6.352490	-0.121873
6	-1.115350	-2.970345	-0.953601	1	-0.530101	5.896931	1.391824
1	-0.821378	-4.027912	-0.958467	1	-2.295028	5.771999	1.269869
6	1.225756	-2.400315	-1.301994	6	-2.487237	3.901935	-0.680840
1	1.693819	-2.140359	-0.334427	1	-2.511505	2.858172	-1.012524
6	1.786344	-1.403532	-2.332176	1	-2.466243	4.551226	-1.572034

1 -3.420464 4.114421 -0.133296
 6 -1.308442 3.258274 1.469117
 1 -0.477480 3.491831 2.155211
 1 -1.238301 2.201864 1.186881
 1 -2.251918 3.405659 2.020478
 1 -5.340252 -4.517339 -0.014587
 1 2.956020 5.465341 -1.518315
 6 2.363789 2.020907 1.783698
 1 1.427064 1.872863 1.231077
 1 2.116045 1.959174 2.853936
 1 2.720428 3.036765 1.564484
 1 4.328020 -2.271684 1.857630

Structure S51. ²TS16

9 0.412629 -0.427109 1.017969
 7 0.706692 -0.546480 2.722858
 6 -0.484296 -1.227249 3.239938
 6 -0.389679 -1.178430 4.782916
 1 0.449189 -1.781452 5.150718
 1 -0.261642 -0.142106 5.132621
 1 -1.328734 -1.569560 5.205923
 6 -0.588318 -2.673878 2.735264
 1 0.266328 -3.274300 3.076451
 1 -1.515501 -3.141857 3.100605
 1 -0.613898 -2.678399 1.637481
 6 -1.710117 -0.414820 2.793456
 1 -2.621437 -0.847073 3.233699
 1 -1.627044 0.632701 3.120451
 1 -1.806899 -0.423833 1.702821
 6 1.988585 -1.036509 2.811490
 8 2.294133 -1.908286 3.622428
 6 3.036088 -0.406447 1.934384
 6 3.067218 0.958711 1.553501
 6 4.086515 -1.263721 1.561961
 6 4.164987 1.394531 0.791012
 6 5.159565 -0.809252 0.797784
 6 5.195868 0.533051 0.409992
 1 4.207207 2.445833 0.495482
 1 5.961977 -1.494253 0.512642
 1 6.030791 0.913737 -0.184734
 27 -0.222469 -0.184229 -0.969980
 8 -2.065071 -0.420007 -0.776506
 8 -0.486853 1.655027 -0.787832

7 0.088157 -2.045455 -1.120110
 7 1.454831 0.043007 -1.824982
 6 -2.788776 -1.500305 -0.709456
 6 -4.216321 -1.383212 -0.546166
 6 -4.952039 -2.560102 -0.436267
 1 -6.031599 -2.504170 -0.296424
 6 -4.373156 -3.845487 -0.498031
 6 -3.013197 -3.964507 -0.689669
 1 -2.543172 -4.950334 -0.754819
 6 -2.203633 -2.807591 -0.799991
 6 -0.794158 -2.987240 -1.016538
 1 -0.457032 -4.028841 -1.090007
 6 1.524673 -2.290912 -1.294808
 1 1.994073 -2.024133 -0.330974
 6 1.994287 -1.238576 -2.314989
 1 1.471456 -1.458810 -3.265218
 6 3.502956 -1.304249 -2.548649
 1 4.018460 -0.988517 -1.627840
 1 3.798238 -0.605970 -3.347664
 6 3.933144 -2.727557 -2.926865
 1 3.505699 -2.991767 -3.911153
 1 5.028537 -2.761539 -3.042772
 6 3.474981 -3.752525 -1.885805
 1 3.975537 -3.544940 -0.923542
 1 3.777212 -4.768481 -2.186698
 6 1.955111 -3.703367 -1.682372
 1 1.659466 -4.419613 -0.899507
 1 1.441719 -4.004594 -2.612992
 6 2.089594 1.170408 -1.959061
 1 3.078826 1.155935 -2.432006
 6 1.632326 2.458157 -1.538891
 6 2.508177 3.563046 -1.699354
 1 3.488470 3.398839 -2.156317
 6 2.130413 4.816724 -1.275613
 6 0.859808 4.993299 -0.677681
 1 0.600513 5.998255 -0.344167
 6 -0.049826 3.960040 -0.495989
 6 0.335210 2.639999 -0.944500
 6 -4.884618 0.006474 -0.515203
 6 -4.612647 0.735108 -1.852260
 1 -5.049032 0.176723 -2.696999
 1 -3.536953 0.851352 -2.033241
 1 -5.068538 1.738891 -1.839669
 6 -4.333228 0.846009 0.660061

1	-3.258007	1.021158	0.556919	1	-1.251506	0.233953	2.072923
1	-4.515097	0.341460	1.622677	6	1.989479	-1.192170	2.908911
1	-4.839301	1.824786	0.693730	8	2.186470	-2.378136	3.195343
6	-6.410888	-0.094067	-0.340762	6	2.993907	-0.418108	2.092659
1	-6.691111	-0.573389	0.611218	6	2.924085	0.964338	1.780169
1	-6.891338	-0.650995	-1.161347	6	4.065236	-1.185993	1.601703
1	-6.845674	0.918067	-0.336382	6	3.949952	1.506132	0.985343
6	-1.413376	4.171778	0.189873	6	5.069682	-0.626624	0.814385
6	-1.622457	5.636949	0.611748	6	5.008903	0.734594	0.503814
1	-1.610488	6.325676	-0.248610	1	3.904674	2.568505	0.732884
1	-0.862984	5.976090	1.334669	1	5.892915	-1.246683	0.449845
1	-2.604798	5.741748	1.099086	1	5.784980	1.198288	-0.111910
6	-2.553551	3.793524	-0.783394	27	-0.207341	-0.203644	-0.998604
1	-2.496387	2.739251	-1.075082	8	-2.055112	-0.447622	-0.946029
1	-2.509115	4.411105	-1.695944	8	-0.506996	1.641277	-0.904421
1	-3.533320	3.966768	-0.308607	7	0.099945	-2.078044	-1.208721
6	-1.494332	3.298959	1.465779	7	1.443694	0.013187	-1.965737
1	-0.716310	3.592168	2.189468	6	-2.772976	-1.530058	-0.806664
1	-1.365818	2.235748	1.235267	6	-4.191197	-1.406558	-0.601125
1	-2.474653	3.427686	1.954016	6	-4.924115	-2.582108	-0.446329
1	-5.004377	-4.731673	-0.402223	1	-5.998726	-2.521062	-0.274783
1	2.799135	5.672465	-1.391370	6	-4.347493	-3.867097	-0.493920
6	2.004093	1.955858	1.935106	6	-2.989260	-3.990402	-0.702893
1	1.067807	1.736694	1.409291	1	-2.517726	-4.976408	-0.743684
1	1.771075	1.912440	3.009267	6	-2.186517	-2.836067	-0.857906
1	2.317806	2.978184	1.681071	6	-0.777242	-3.015503	-1.081180
1	4.048384	-2.302123	1.897667	1	-0.434391	-4.056200	-1.140217

Structure S52. ⁴INT6

9	0.482364	-0.390218	0.731706	1	1.986350	-1.994100	-0.399913
7	0.928583	-0.542765	3.466478	6	2.001625	-1.275187	-2.415469
6	-0.422013	-1.077729	3.589672	1	1.492555	-1.531173	-3.363919
6	-0.628386	-1.374166	5.091955	6	3.514735	-1.324499	-2.625876
1	0.065889	-2.159538	5.427711	1	4.011058	-0.979424	-1.703767
1	-0.452599	-0.472434	5.698456	1	3.812248	-0.642796	-3.438377
1	-1.659973	-1.721065	5.266446	6	3.967801	-2.752249	-2.958772
6	-0.714904	-2.332425	2.748540	1	3.553699	-3.050487	-3.939077
1	-0.112921	-3.188129	3.080158	1	5.064548	-2.773324	-3.063225
1	-1.781863	-2.592514	2.837081	6	3.514377	-3.751974	-1.891422
1	-0.491242	-2.125250	1.694821	1	4.002030	-3.509053	-0.931162
6	-1.372812	0.058655	3.148178	1	3.832563	-4.772129	-2.159501
1	-2.414315	-0.236886	3.349271	6	1.992184	-3.718802	-1.702190
1	-1.163791	0.991752	3.692448	1	1.700285	-4.410852	-0.896772
				1	1.490855	-4.056542	-2.627018
				6	2.089556	1.136135	-2.049454

1	3.086741	1.123566	-2.505847			
6	1.646279	2.418416	-1.597313	27	-0.576547	-0.098976 0.200929
6	2.546150	3.507871	-1.724687	8	0.461670	1.403875 -0.214274
1	3.532358	3.330744	-2.163036	8	0.943231	-1.137057 -0.094864
6	2.183660	4.762253	-1.290875	7	-2.158677	0.967425 0.320543
6	0.904455	4.952816	-0.720424	7	-1.756851	-1.453004 -0.541551
1	0.654392	5.957978	-0.381391	6	0.203635	2.677289 -0.115237
6	-0.028552	3.933865	-0.568369	6	1.276260	3.622958 -0.280108
6	0.344736	2.612319	-1.018852	6	0.961402	4.977281 -0.190753
6	-4.849897	-0.014542	-0.535438	1	1.753686	5.717402 -0.305139
6	-4.632776	0.731120	-1.872543	6	-0.343349	5.455337 0.049397
1	-5.105571	0.184308	-2.705221	6	-1.373288	4.552562 0.216253
1	-3.566233	0.850256	-2.098182	1	-2.392937	4.898496 0.409767
1	-5.088138	1.734040	-1.826782	6	-1.119350	3.162307 0.145192
6	-4.237583	0.796538	0.630235	6	-2.224158	2.256215 0.309849
1	-3.161582	0.946229	0.494113	1	-3.208820	2.726756 0.428667
1	-4.397158	0.279982	1.590653	6	-3.309595	0.072875 0.463487
1	-4.717381	1.786563	0.696843	1	-3.150400	-0.447325 1.424521
6	-6.367563	-0.107325	-0.295787	6	-3.147550	-0.982155 -0.651481
1	-6.610371	-0.595671	0.661687	1	-3.236803	-0.447179 -1.616051
1	-6.886466	-0.650843	-1.101961	6	-4.237605	-2.052255 -0.568386
1	-6.794030	0.907657	-0.260528	1	-4.093565	-2.633425 0.359318
6	-1.403142	4.174184	0.086458	1	-4.153279	-2.756492 -1.410823
6	-1.600109	5.647811	0.484973	6	-5.630737	-1.409005 -0.572139
1	-1.560112	6.325195	-0.383565	1	-5.804672	-0.923226 -1.549226
1	-0.853607	5.986303	1.221364	1	-6.398614	-2.192917 -0.471958
1	-2.591446	5.771200	0.948991	6	-5.777834	-0.370455 0.543353
6	-2.532650	3.800937	-0.901005	1	-5.701390	-0.872458 1.524069
1	-2.496371	2.740045	-1.170913	1	-6.775063	0.096306 0.504874
1	-2.457931	4.398493	-1.824838	6	-4.695567	0.712626 0.446710
1	-3.516186	4.007084	-0.447687	1	-4.794551	1.423509 1.282399
6	-1.515970	3.319620	1.370218	1	-4.827154	1.284798 -0.489063
1	-0.754025	3.618252	2.107718	6	-1.400544	-2.683315 -0.756197
1	-1.383982	2.254809	1.155048	1	-2.167374	-3.396113 -1.087340
1	-2.506792	3.453880	1.834805	6	-0.092284	-3.236902 -0.586158
1	-4.975429	-4.751028	-0.363724	6	0.071798	-4.632755 -0.784803
1	2.871099	5.606292	-1.378115	1	-0.794633	-5.230848 -1.082196
6	1.800311	1.867719	2.210911	6	1.300428	-5.222636 -0.592597
1	0.871034	1.533313	1.732567	6	2.394556	-4.427301 -0.180055
1	1.637641	1.831192	3.297853	1	3.346042	-4.932725 -0.012507
1	1.997930	2.908173	1.914326	6	2.306993	-3.056502 0.028779
1	4.090979	-2.245511	1.862786	6	1.031429	-2.422872 -0.207240
				6	2.716052	3.124400 -0.512055
				6	2.786571	2.302828 -1.820535

Structure S53. Co^{III}(salen)-F

1 2. 529586 2. 932351 -2. 688909
 1 2. 098864 1. 449142 -1. 796652
 1 3. 807979 1. 917069 -1. 974480
 6 3. 159046 2. 256417 0. 690257
 1 2. 520154 1. 374169 0. 812391
 1 3. 124387 2. 841293 1. 624255
 1 4. 196336 1. 911427 0. 548849
 6 3. 713429 4. 289771 -0. 640368
 1 3. 755180 4. 906720 0. 271746
 1 3. 479246 4. 948793 -1. 492016
 1 4. 725417 3. 888092 -0. 807987
 6 3. 499467 -2. 212137 0. 516563
 6 4. 753518 -3. 072939 0. 751080
 1 5. 107090 -3. 556254 -0. 174238
 1 4. 588293 -3. 857352 1. 507210
 1 5. 572274 -2. 434451 1. 119354
 6 3. 858861 -1. 144733 -0. 543190
 1 3. 024193 -0. 459513 -0. 723006
 1 4. 130946 -1. 621408 -1. 499864
 1 4. 725206 -0. 552055 -0. 206479
 6 3. 134755 -1. 536306 1. 861968
 1 2. 998274 -2. 296199 2. 649265
 1 2. 207967 -0. 952167 1. 798812
 1 3. 948071 -0. 863786 2. 181928
 9 -0. 689888 -0. 465659 2. 004235
 1 -0. 527421 6. 530313 0. 106986
 1 1. 434711 -6. 296541 -0. 739039

Structure S54. 12

6 3. 518200 -1. 086115 0. 063093
 6 3. 914163 0. 254001 0. 091202
 6 2. 163434 -1. 392098 -0. 028883
 6 1. 189097 -0. 380110 -0. 104461
 6 1. 581384 0. 982178 -0. 066096
 6 2. 953844 1. 265296 0. 031046
 1 4. 261042 -1. 886161 0. 111389
 1 4. 973411 0. 515096 0. 163722
 1 1. 826184 -2. 429994 -0. 050154
 6 -0. 231381 -0. 853562 -0. 195494
 6 0. 602095 2. 128009 -0. 108675
 1 3. 274408 2. 310211 0. 062761
 8 -0. 532580 -2. 041959 -0. 060130
 7 -1. 200220 0. 040807 -0. 572583

6 -2. 517858 0. 115780 0. 044648
 1 -0. 125548 2. 069685 0. 716395
 1 0. 023317 2. 131545 -1. 045261
 1 1. 124062 3. 092875 -0. 021182
 6 -2. 489823 -0. 169376 1. 555759
 6 -3. 408370 -0. 922845 -0. 685735
 6 -3. 064014 1. 528841 -0. 228637
 1 -2. 124213 -1. 185185 1. 760796
 1 -3. 500466 -0. 073831 1. 982450
 1 -1. 833476 0. 547931 2. 074565
 1 -2. 462591 2. 294255 0. 284924
 1 -4. 100030 1. 609490 0. 135501
 1 -3. 053223 1. 749995 -1. 306714
 1 -3. 031535 -1. 938038 -0. 506094
 1 -3. 412506 -0. 736506 -1. 770441
 1 -4. 441274 -0. 841344 -0. 310143

Structure S55. [Co^{IV}(salen)-F]⁺

27 -0. 593374 -0. 106837 0. 238537
 8 0. 383520 1. 399468 -0. 207040
 8 0. 988133 -1. 107140 -0. 047755
 7 -2. 197750 0. 866762 0. 379868
 7 -1. 717458 -1. 510674 -0. 586524
 6 0. 097981 2. 665815 -0. 078465
 6 1. 142168 3. 640002 -0. 257299
 6 0. 784679 4. 980749 -0. 130501
 1 1. 546874 5. 749380 -0. 253943
 6 -0. 526770 5. 408796 0. 159182
 6 -1. 531282 4. 476042 0. 336064
 1 -2. 552377 4. 791988 0. 564641
 6 -1. 238031 3. 099843 0. 226973
 6 -2. 306919 2. 155690 0. 387257
 1 -3. 307827 2. 584723 0. 515109
 6 -3. 325822 -0. 071117 0. 464146
 1 -3. 176576 -0. 626725 1. 406086
 6 -3. 117773 -1. 072357 -0. 699279
 1 -3. 179721 -0. 487962 -1. 635455
 6 -4. 183478 -2. 164820 -0. 704684
 1 -4. 062295 -2. 787846 0. 198753
 1 -4. 052021 -2. 820051 -1. 580451
 6 -5. 587779 -1. 545913 -0. 720747
 1 -5. 741137 -1. 013272 -1. 676066
 1 -6. 341071 -2. 348307 -0. 685475

6 -5.785820 -0.573343 0.444471
1 -5.727404 -1.123655 1.399893
1 -6.789234 -0.122293 0.401702
6 -4.726916 0.536578 0.433105
1 -4.865730 1.204001 1.297833
1 -4.842858 1.146520 -0.480238
6 -1.340441 -2.738053 -0.676436
1 -2.079814 -3.510769 -0.924489
6 0.007346 -3.236201 -0.474631
6 0.225351 -4.603498 -0.620127
1 -0.608025 -5.261064 -0.879306
6 1.507740 -5.141231 -0.439362
6 2.593186 -4.314671 -0.108610
1 3.565275 -4.784989 0.031495
6 2.463384 -2.936781 0.047191
6 1.130519 -2.365546 -0.148166
6 2.587091 3.197787 -0.549572
6 2.637818 2.398295 -1.872922
1 2.322281 3.028286 -2.720620
1 1.990904 1.513184 -1.844249
1 3.668642 2.062716 -2.070554
6 3.103804 2.335734 0.627181
1 2.505900 1.428155 0.766528
1 3.085649 2.910527 1.567243
1 4.146299 2.032946 0.440984
6 3.534389 4.401706 -0.698738
1 3.588170 5.007612 0.219588
1 3.245605 5.060369 -1.533304
1 4.552557 4.038913 -0.908092
6 3.636302 -2.034007 0.436327
6 4.936435 -2.837250 0.614775
1 5.249055 -3.337095 -0.315910
1 4.855653 -3.596411 1.408713
1 5.747154 -2.151589 0.903518
6 3.876901 -0.987561 -0.681541
1 3.022782 -0.316038 -0.810105
1 4.084297 -1.483096 -1.643798
1 4.755928 -0.376332 -0.425489
6 3.321603 -1.333134 1.784543
1 3.241420 -2.073312 2.596549
1 2.386778 -0.760288 1.756206
1 4.141453 -0.643214 2.038307
9 -0.704448 -0.687890 1.958486
1 -0.740566 6.475963 0.245501

1 1.664375 -6.215910 -0.553814

Structure S56. 15

6 3.426460 -1.259001 -0.188873
6 3.985455 0.021140 -0.171718
6 2.044118 -1.400371 -0.067971
6 1.176680 -0.299217 0.051710
6 1.745596 1.003324 0.076787
6 3.143751 1.127356 -0.032781
1 4.064239 -2.142964 -0.290960
1 5.067526 0.161462 -0.258378
1 1.573727 -2.385474 -0.050645
6 -0.319541 -0.645068 0.159003
6 0.930607 2.263713 0.229503
1 3.583932 2.130047 -0.005736
8 -0.590213 -1.840346 0.470551
7 -1.140031 0.349769 -0.129324
6 -2.579520 0.104046 -0.102866
1 0.265177 2.202647 1.102948
1 0.246545 2.394998 -0.620427
1 1.585797 3.146419 0.328503
6 -3.064621 -0.313491 1.304285
6 -2.999336 -0.972867 -1.130296
6 -3.258430 1.434254 -0.481635
1 -2.581380 -1.256412 1.594375
1 -4.162546 -0.439680 1.340176
1 -2.784158 0.458011 2.041891
1 -2.977834 2.224472 0.234943
1 -4.360453 1.350429 -0.492875
1 -2.923527 1.763665 -1.479657
1 -2.527572 -1.931303 -0.873088
1 -2.658150 -0.680830 -2.138398
1 -4.096721 -1.104010 -1.162700

Structure S57. ²TS17

6 3.583771 -1.005253 -0.054804
6 3.927810 0.352398 -0.054435
6 2.240631 -1.378513 -0.034426
6 1.234990 -0.402880 -0.010186
6 1.576801 0.967407 0.023561
6 2.931916 1.330814 -0.019707
1 4.364700 -1.769437 -0.080669

1 4.979510 0.650297 -0.078172
 1 1.942961 -2.429062 -0.047997
 6 -0.201783 -0.855408 -0.043043
 6 0.483868 1.975795 0.119193
 1 3.203697 2.389874 -0.009416
 8 -0.518720 -2.023889 0.171724
 7 -1.104408 0.105515 -0.414575
 6 -2.524243 0.117904 -0.032661
 1 0.182901 2.234837 1.145560
 1 -0.490317 1.279547 -0.314905
 1 0.592349 2.867198 -0.514565
 6 -2.707998 -0.149745 1.470337
 6 -3.247842 -0.960587 -0.867794
 6 -3.077402 1.503916 -0.400032
 1 -2.305876 -1.135318 1.743576
 1 -3.775940 -0.124769 1.739211
 1 -2.188014 0.616803 2.067810
 1 -2.588238 2.297472 0.188154
 1 -4.157867 1.549323 -0.195488
 1 -2.915994 1.719110 -1.467971
 1 -2.858811 -1.957678 -0.624688
 1 -3.098732 -0.779973 -1.943622
 1 -4.328824 -0.930798 -0.654603

Structure S58. 13

6 3.388079 -1.263472 -0.384036
 6 3.960020 0.020009 -0.401911
 6 2.025480 -1.405787 -0.103052
 6 1.208397 -0.300642 0.144702
 6 1.785284 1.020977 0.184416
 6 3.181356 1.130107 -0.120496
 1 3.999549 -2.144836 -0.591496
 1 5.022988 0.143474 -0.625569
 1 1.567858 -2.397188 -0.082369
 6 -0.253806 -0.608909 0.375669
 6 1.079507 2.181808 0.560539
 1 3.636651 2.124124 -0.103891
 8 -0.591481 -1.586534 1.035751
 7 -1.137142 0.227228 -0.237878
 6 -2.610182 0.095942 -0.218335
 1 0.044749 2.152682 0.900348
 1 -0.750840 0.924146 -0.864416
 1 1.592402 3.146659 0.577904

6 -3.122869 0.180036 1.228918
 6 -3.031588 -1.235158 -0.864896
 6 -3.162529 1.272718 -1.033416
 1 -2.710490 -0.638072 1.834031
 1 -4.222222 0.113212 1.248145
 1 -2.828565 1.136620 1.690035
 1 -2.857100 2.238268 -0.597495
 1 -4.262362 1.242498 -1.049579
 1 -2.810452 1.236669 -2.078174
 1 -2.623413 -2.083510 -0.299168
 1 -2.660138 -1.296913 -1.900677
 1 -4.129668 -1.321933 -0.887099

Structure S59. ²TS18

6 4.044881 -2.258354 -0.118997
 6 3.190752 -3.187617 -0.731299
 6 3.744865 -0.895487 -0.176367
 6 2.607919 -0.421879 -0.836627
 6 1.764408 -1.353529 -1.528092
 6 2.073476 -2.740701 -1.420795
 1 4.935186 -2.598065 0.415897
 1 3.409044 -4.257002 -0.677197
 1 4.391235 -0.164618 0.312005
 6 2.382035 1.075361 -0.744278
 6 0.670372 -0.975895 -2.352147
 1 1.422654 -3.459274 -1.925967
 8 3.346480 1.830744 -0.648828
 7 1.089682 1.488232 -0.739508
 6 0.643829 2.892904 -0.616207
 1 0.115771 -1.752514 -2.880141
 1 0.560906 0.043731 -2.713870
 6 1.296433 3.762502 -1.703576
 6 0.991532 3.427747 0.783397
 6 -0.876703 2.882251 -0.824031
 1 2.385708 3.801110 -1.579662
 1 0.896527 4.787682 -1.651772
 1 1.075537 3.359603 -2.705483
 1 -1.130568 2.540055 -1.839613
 1 -1.285221 3.895825 -0.692926
 1 -1.380492 2.211333 -0.112740
 1 2.078076 3.391032 0.946338
 1 0.503825 2.819945 1.560334
 1 0.654928 4.471011 0.895166

1 0.364069 0.780459 -0.638297
 6 1.297728 -1.648672 2.127185
 6 1.584914 -0.598851 3.002378
 6 0.063250 -1.685858 1.477685
 6 -0.891175 -0.691841 1.717900
 6 -0.626899 0.360096 2.619378
 6 0.630178 0.393023 3.241143
 1 2.038889 -2.425045 1.930809
 1 2.556779 -0.549033 3.500076
 1 -0.158417 -2.485144 0.768337
 6 -2.255884 -0.789258 1.089502
 6 -1.672347 1.405658 2.914315
 1 0.860590 1.210883 3.929389
 8 -3.220046 -1.190343 1.728134
 7 -2.402940 -0.268684 -0.177817
 6 -3.476959 -0.616831 -1.118894
 1 -1.280249 2.195910 3.570771
 1 -2.547533 0.952469 3.406932
 6 -4.800253 -0.079823 -0.522458
 6 -3.544300 -2.133462 -1.345304
 6 -3.214500 0.123750 -2.440199
 1 -5.074562 -0.615822 0.392785
 1 -5.599380 -0.205027 -1.270394
 1 -4.713030 0.992782 -0.288875
 1 -3.123606 1.206768 -2.268671
 1 -4.055420 -0.048144 -3.129169
 1 -2.293023 -0.228971 -2.920478
 1 -3.758647 -2.661464 -0.404706
 1 -2.584660 -2.497961 -1.742111
 1 -4.336546 -2.381087 -2.068811
 1 -2.043236 1.882566 1.993152
 9 -0.941014 -0.593939 -1.031772

Structure S60. 14

6 3.402690 -1.440905 -0.409112
 6 3.961244 -0.170313 -0.248637
 6 2.031190 -1.620784 -0.232407
 6 1.190667 -0.542183 0.081502
 6 1.755042 0.743265 0.264443
 6 3.139283 0.904400 0.092921
 1 4.036059 -2.293948 -0.665620
 1 5.035378 -0.016889 -0.379347
 1 1.582896 -2.611243 -0.330401

6 -0.277162 -0.886932 0.256077
 6 0.943993 1.947614 0.663210
 1 3.579055 1.894743 0.240645
 8 -0.600899 -1.957423 0.762560
 7 -1.162660 0.033604 -0.202276
 6 -2.635476 -0.073563 -0.136491
 1 1.595626 2.747911 1.045046
 1 0.189991 1.703948 1.426656
 6 -3.088592 -0.206719 1.327070
 6 -3.114803 -1.280948 -0.959315
 6 -3.184095 1.228513 -0.736055
 1 -2.672687 -1.115455 1.782364
 1 -4.187642 -0.257872 1.381707
 1 -2.757517 0.663047 1.917589
 1 -2.810619 2.107023 -0.184919
 1 -4.283648 1.237001 -0.694253
 1 -2.886439 1.337355 -1.792337
 1 -2.702317 -2.212968 -0.549185
 1 -2.789539 -1.188958 -2.008233
 1 -4.214586 -1.345077 -0.943856
 1 -0.792843 0.838085 -0.697469
 9 0.253417 2.480976 -0.445797

Structure S61. 4INT7

27 -0.479724 0.275719 -0.749916
 8 -2.261612 -0.328359 -0.900205
 8 -0.801496 2.136194 -0.885871
 7 0.078417 -1.652860 -1.330954
 7 1.285235 0.653047 -1.807174
 6 -2.854603 -1.486459 -0.909486
 6 -4.239466 -1.578480 -0.535303
 6 -4.846495 -2.828639 -0.633547
 1 -5.898438 -2.936032 -0.368780
 6 -4.160641 -3.986642 -1.054429
 6 -2.816403 -3.909547 -1.362752
 1 -2.259152 -4.803821 -1.656559
 6 -2.138105 -2.672498 -1.278251
 6 -0.714065 -2.659578 -1.505442
 1 -0.293045 -3.626772 -1.814198
 6 1.522826 -1.732030 -1.549533
 1 1.984561 -1.543135 -0.563960
 6 1.886425 -0.525754 -2.445131
 1 1.349258 -0.673884 -3.401666

6	3.389465	-0.454439	-2.725016	6	-1.846034	3.231649	1.755990
1	3.912740	-0.205435	-1.788155	1	-1.153850	3.451840	2.585563
1	3.603367	0.351434	-3.445255	1	-1.578955	2.243872	1.360414
6	3.922504	-1.784972	-3.268467	1	-2.863958	3.175003	2.175797
1	3.485395	-1.980093	-4.264621	9	-0.146620	0.296291	1.066558
1	5.012332	-1.710164	-3.414373	1	-4.691414	-4.939330	-1.114110
6	3.585768	-2.945941	-2.330296	1	2.519227	6.117969	-0.301978
1	4.091117	-2.793897	-1.361130	6	5.346344	-0.085073	0.415221
1	3.963935	-3.896592	-2.739154	6	4.969453	1.267940	0.484782
6	2.074134	-3.045963	-2.101555	6	4.539478	-1.052636	1.021576
1	1.850746	-3.866009	-1.400584	6	3.362694	-0.718252	1.699315
1	1.574400	-3.285058	-3.057517	6	3.003788	0.671390	1.849370
6	1.886891	1.798768	-1.762179	6	3.830639	1.634045	1.182354
1	2.894050	1.886883	-2.191316	1	6.253014	-0.382264	-0.117255
6	1.384004	3.010969	-1.166528	1	5.581013	2.034359	0.000465
6	2.263949	4.110873	-1.040610	1	4.812782	-2.108736	0.972982
1	3.281852	4.026259	-1.432280	6	2.570794	-1.897391	2.233208
6	1.845046	5.265404	-0.409247	6	1.944345	1.139051	2.648240
6	0.539993	5.333042	0.123457	1	3.554509	2.688557	1.259478
1	0.257238	6.247141	0.646035	8	3.165314	-2.894005	2.646587
6	-0.380669	4.293027	0.019071	7	1.221763	-1.800936	2.148557
6	0.037238	3.110620	-0.684613	6	0.262416	-2.831084	2.601151
6	-4.978106	-0.333946	-0.007529	1	1.335889	0.477982	3.260925
6	-5.008218	0.773986	-1.085418	1	0.806351	-0.966757	1.718690
1	-5.542310	0.428401	-1.986111	1	1.707665	2.205093	2.665450
1	-3.996551	1.078153	-1.378790	6	0.458566	-3.115312	4.099972
1	-5.535954	1.662351	-0.700618	6	0.449417	-4.122163	1.784354
6	-4.257198	0.181979	1.262038	6	-1.145267	-2.262917	2.362705
1	-3.219794	0.471060	1.056423	1	1.466884	-3.504518	4.294550
1	-4.248728	-0.591091	2.047852	1	-0.279151	-3.856015	4.448523
1	-4.783575	1.064092	1.662510	1	0.320582	-2.193228	4.687230
6	-6.433774	-0.653742	0.376138	1	-1.310414	-1.345905	2.948008
1	-6.498116	-1.410916	1.174018	1	-1.906027	-3.004030	2.650996
1	-7.023554	-1.007587	-0.484841	1	-1.298860	-2.005061	1.307133
1	-6.922330	0.258882	0.752526	1	1.469202	-4.511777	1.907311
6	-1.771307	4.342690	0.679613	1	0.272529	-3.927604	0.715353
6	-2.027881	5.691856	1.374760	1	-0.266761	-4.893283	2.110479
1	-2.013555	6.534195	0.664144	-----			
1	-1.295077	5.899392	2.170802	Structure S62. ⁴TS19			
1	-3.023028	5.677092	1.846854	-----			
6	-2.887114	4.140047	-0.371331	27	0.437384	-0.272984	-0.731832
1	-2.816453	3.157483	-0.851204	8	2.276502	0.241002	-0.779118
1	-2.833977	4.914450	-1.154681	8	0.704368	-2.166048	-0.920073
1	-3.876010	4.217364	0.110346	7	-0.012978	1.651368	-1.356583

7	-1.358621	-0.594123	-1.783974	1	4.289587	0.598254	2.120072
6	2.916967	1.365930	-0.881174	1	4.767471	-1.094793	1.839938
6	4.310008	1.426742	-0.521259	6	6.470782	0.469399	0.440039
6	4.973282	2.636092	-0.711165	1	6.572966	1.275499	1.184465
1	6.031566	2.711662	-0.460203	1	7.070744	0.739465	-0.444079
6	4.340335	3.794172	-1.210606	1	6.922994	-0.436139	0.874845
6	2.993544	3.754883	-1.507041	6	1.590838	-4.406360	0.643550
1	2.475704	4.650215	-1.864360	6	1.791172	-5.756563	1.354787
6	2.256587	2.558238	-1.334964	1	1.741215	-6.606341	0.654721
6	0.834028	2.609103	-1.559411	1	1.050315	-5.924377	2.153036
1	0.463237	3.588114	-1.895365	1	2.786420	-5.778427	1.826558
6	-1.455099	1.806112	-1.545245	6	2.709048	-4.265779	-0.415175
1	-1.901852	1.656110	-0.545817	1	2.669788	-3.290030	-0.911977
6	-1.913904	0.610942	-2.412794	1	2.622675	-5.051534	-1.184207
1	-1.405507	0.722101	-3.390225	1	3.697273	-4.371322	0.062706
6	-3.429170	0.620451	-2.637581	6	1.723183	-3.287118	1.705961
1	-3.927065	0.399050	-1.680104	1	1.020579	-3.460077	2.538414
1	-3.714033	-0.175063	-3.344335	1	1.512797	-2.292873	1.294368
6	-3.914447	1.973867	-3.168740	1	2.742651	-3.279120	2.126063
1	-3.510609	2.138751	-4.184131	9	-0.028896	-0.387973	1.083675
1	-5.012060	1.956394	-3.268350	1	4.914372	4.714200	-1.341040
6	-3.476402	3.122663	-2.257845	1	-2.748663	-6.038945	-0.372081
1	-3.946991	3.005777	-1.265696	6	-5.330847	0.148612	0.542850
1	-3.821906	4.088781	-2.659420	6	-4.925552	-1.195993	0.561056
6	-1.953178	3.142326	-2.094017	6	-4.518877	1.126206	1.127962
1	-1.657034	3.956802	-1.413823	6	-3.305890	0.803782	1.740953
1	-1.480563	3.343083	-3.072289	6	-2.913449	-0.579731	1.833868
6	-1.982068	-1.726414	-1.790402	6	-3.742855	-1.550602	1.189920
1	-2.980725	-1.786950	-2.246353	1	-6.268400	0.436013	0.060789
6	-1.513127	-2.961912	-1.211020	1	-5.544065	-1.963963	0.089317
6	-2.424749	-4.036783	-1.099046	1	-4.814930	2.176875	1.108030
1	-3.436336	-3.920138	-1.499779	6	-2.495242	1.985658	2.244499
6	-2.048229	-5.206300	-0.467905	6	-1.794321	-1.036894	2.555444
6	-0.750300	-5.315027	0.078090	1	-3.436634	-2.598377	1.226831
1	-0.501082	-6.239582	0.599653	8	-3.072631	2.988708	2.663273
6	0.202411	-4.304712	-0.016237	7	-1.151655	1.869501	2.126324
6	-0.167149	-3.103993	-0.724634	6	-0.157330	2.882495	2.537391
6	5.000577	0.187915	0.082795	1	-1.235526	-0.395734	3.232187
6	4.977283	-0.984888	-0.924096	1	-0.767214	1.025142	1.688401
1	5.521264	-0.719412	-1.845794	1	-1.522140	-2.093143	2.523659
1	3.950877	-1.259793	-1.194395	6	-0.319447	3.210355	4.030825
1	5.468279	-1.870876	-0.487846	6	-0.322247	4.155641	1.689251
6	4.269482	-0.222648	1.384230	6	1.223430	2.256591	2.288178
1	3.223023	-0.490214	1.194517	1	-1.309406	3.640981	4.232199

1 0.451111 3.931364 4.347485
 1 -0.204777 2.299056 4.639637
 1 1.372083 1.359240 2.907989
 1 2.019673 2.978325 2.523847
 1 1.339640 1.951503 1.240107
 1 -1.333990 4.568124 1.807675
 1 -0.152713 3.932583 0.625100
 1 0.408994 4.920833 1.994667

Structure S63. ²INT18

27 -0.166234 0.226737 -1.127789
 8 -1.830422 -0.606029 -0.777873
 8 -0.975379 1.905314 -0.789567
 7 0.669631 -1.435337 -1.507839
 7 1.488429 1.028512 -1.628872
 6 -2.222501 -1.811219 -1.023277
 6 -3.576898 -2.203076 -0.692246
 6 -3.983338 -3.489800 -1.022901
 1 -5.003720 -3.801670 -0.798217
 6 -3.133945 -4.443201 -1.630542
 6 -1.824627 -4.104749 -1.889549
 1 -1.134746 -4.837584 -2.319698
 6 -1.342857 -2.805058 -1.587855
 6 0.059441 -2.554973 -1.754763
 1 0.654907 -3.415591 -2.084565
 6 2.127790 -1.286958 -1.569384
 1 2.461874 -1.159651 -0.524552
 6 2.388656 0.055958 -2.273383
 1 2.034714 -0.060300 -3.316289
 6 3.879392 0.398677 -2.295080
 1 4.211170 0.599105 -1.263029
 1 4.055589 1.316641 -2.877282
 6 4.695080 -0.753127 -2.897385
 1 4.437904 -0.861580 -3.966636
 1 5.768173 -0.504937 -2.858882
 6 4.427109 -2.078350 -2.178297
 1 4.774993 -2.006716 -1.132281
 1 5.003659 -2.892977 -2.645206
 6 2.933515 -2.427813 -2.185433
 1 2.764698 -3.357794 -1.619794
 1 2.594200 -2.606399 -3.221456
 6 1.791982 2.284737 -1.515540
 1 2.782012 2.618586 -1.851166

6 0.953193 3.310249 -0.963374
 6 1.524730 4.591262 -0.762684
 1 2.563357 4.758832 -1.064198
 6 0.793246 5.603049 -0.179462
 6 -0.544995 5.351327 0.200220
 1 -1.097357 6.171887 0.659067
 6 -1.176982 4.127876 0.009169
 6 -0.414872 3.052264 -0.593009
 6 -4.497640 -1.218260 0.053632
 6 -4.679821 0.081793 -0.761893
 1 -5.116369 -0.136269 -1.751115
 1 -3.722798 0.592284 -0.908972
 1 -5.365932 0.767347 -0.237332
 6 -3.868884 -0.895159 1.431072
 1 -2.860298 -0.476734 1.328514
 1 -3.806856 -1.806325 2.049255
 1 -4.491057 -0.163596 1.973598
 6 -5.895223 -1.811795 0.305443
 1 -5.859421 -2.725164 0.920835
 1 -6.420924 -2.050387 -0.633468
 1 -6.512655 -1.078325 0.848389
 6 -2.647917 3.896282 0.405686
 6 -3.271431 5.135189 1.073354
 1 -3.283399 6.011570 0.405528
 1 -2.746850 5.417880 2.000690
 1 -4.317461 4.918168 1.343047
 6 -3.471350 3.584165 -0.865455
 1 -3.078531 2.703721 -1.387410
 1 -3.448523 4.439357 -1.561325
 1 -4.524823 3.388752 -0.605074
 6 -2.751920 2.722532 1.407947
 1 -2.215836 2.965541 2.341575
 1 -2.334161 1.800233 0.991425
 1 -3.806367 2.540265 1.673004
 9 -0.434848 0.215873 1.540876
 1 -3.513670 -5.439882 -1.866089
 1 1.231516 6.589471 -0.012213
 6 4.422984 1.549170 1.362298
 6 3.501309 2.588061 1.500544
 6 4.021863 0.233920 1.598222
 6 2.702479 -0.075997 1.962015
 6 1.769259 0.981098 2.119071
 6 2.189860 2.297885 1.878240
 1 5.456150 1.760601 1.074975

1	3.794334	3.623861	1.314973	1	2.903256	3.082396	1.561486
1	4.735265	-0.587770	1.516302	6	0.038471	-0.904209	4.811408
6	2.441730	-1.551765	2.223648	6	-0.109328	-2.613289	2.937770
6	0.351203	0.780338	2.575374	6	-1.348213	-0.411255	2.788400
1	1.471523	3.113283	1.986365	1	0.901874	-1.431298	5.233111
8	3.362707	-2.266657	2.612364	1	-0.877586	-1.279823	5.292999
7	1.185270	-2.007989	1.991701	1	0.131289	0.168072	5.043089
6	0.702340	-3.378581	2.275039	1	-1.329329	0.657007	3.048480
1	0.278453	0.092345	3.430422	1	-2.226464	-0.868258	3.266999
1	0.530661	-1.398194	1.512150	1	-1.464227	-0.495525	1.702767
1	-0.122375	1.737436	2.831054	1	0.781803	-3.125033	3.328731
6	0.987354	-3.750992	3.739122	1	-0.146280	-2.742327	1.847045
6	1.378855	-4.377420	1.321235	1	-1.003460	-3.092783	3.364239
6	-0.813657	-3.356022	2.039408	27	-0.546430	-0.201133	-1.303602
1	2.065461	-3.774676	3.942360	8	-0.510322	1.592496	-0.763830
1	0.563239	-4.742792	3.961564	8	-2.250572	-0.320381	-0.545781
1	0.521057	-3.020246	4.419757	7	1.261053	-0.114544	-1.908108
1	-1.308928	-2.640670	2.714507	7	-0.144662	-2.049458	-0.876487
1	-1.243602	-4.352597	2.219334	6	0.368872	2.532100	-0.962921
1	-1.056960	-3.073647	1.005627	6	0.098788	3.858114	-0.469575
1	2.471053	-4.341040	1.440431	6	1.053662	4.843392	-0.707959
1	1.127295	-4.141043	0.275969	1	0.871775	5.858917	-0.355777
1	1.036666	-5.403770	1.528262	6	2.264553	4.599018	-1.388601

Structure S64. ³INT9

6	5.333951	-0.934204	0.439498	6	1.609559	2.278573	-1.631514
6	5.405440	0.382718	-0.023310	6	1.984136	0.946879	-2.024553
6	4.340010	-1.279197	1.354362	1	2.996641	0.842858	-2.433018
6	3.400990	-0.330935	1.791849	6	1.701862	-1.462908	-2.278526
6	3.472441	1.009863	1.345027	1	1.077045	-1.746156	-3.143767
6	4.491367	1.334699	0.434116	6	1.273036	-2.363035	-1.101049
1	6.050037	-1.684762	0.096455	1	1.819389	-2.003543	-0.210514
1	6.182212	0.674324	-0.735270	6	1.622248	-3.829492	-1.347181
1	4.280545	-2.296688	1.747036	1	1.014425	-4.209745	-2.187037
6	2.418712	-0.827580	2.816402	1	1.372969	-4.435227	-0.461393
6	2.523637	2.082876	1.814784	6	3.113439	-3.976208	-1.676379
1	4.566319	2.366602	0.083007	1	3.711001	-3.681829	-0.795229
8	2.766618	-1.496360	3.775100	1	3.345703	-5.034472	-1.876569
7	1.088868	-0.465479	2.644688	6	3.511079	-3.104845	-2.871106
9	0.816312	-0.222115	1.279352	1	2.977385	-3.453851	-3.772991
6	-0.083932	-1.120120	3.294329	1	4.587506	-3.210927	-3.081730
1	2.358898	2.037014	2.901921	6	3.179615	-1.628326	-2.621580
1	1.540588	1.970044	1.339644	1	3.429009	-1.029620	-3.512121
				1	3.790676	-1.249832	-1.785663

6	-1.047272	-2.939408	-0.603905	6	4.242112	-1.101228	1.347981
1	-0.733949	-3.987812	-0.514084	6	3.219452	-0.221617	1.747561
6	-2.442024	-2.699883	-0.381378	6	3.260133	1.139342	1.349035
6	-3.279033	-3.817435	-0.131179	6	4.337784	1.543926	0.541794
1	-2.840211	-4.819418	-0.131139	1	6.074985	-1.378309	0.238001
6	-4.623810	-3.639990	0.105709	1	6.158579	1.019703	-0.493943
6	-5.163571	-2.333793	0.091471	1	4.197791	-2.135243	1.695880
1	-6.234117	-2.232123	0.271216	6	2.203765	-0.823589	2.674240
6	-4.402049	-1.195189	-0.144849	6	2.239669	2.168012	1.761789
6	-2.990177	-1.371556	-0.381731	1	4.387132	2.589730	0.229701
6	-1.201893	4.142215	0.305430	8	2.510414	-1.744960	3.428044
6	-1.249713	3.250832	1.569219	7	0.956084	-0.236766	2.737915
1	-0.415478	3.490899	2.249372	9	0.507164	-0.199724	0.934645
1	-1.188205	2.189252	1.306877	6	-0.212351	-0.837625	3.367572
1	-2.190856	3.415959	2.119304	1	2.125774	2.206758	2.855719
6	-2.425213	3.853377	-0.595789	1	1.252681	1.918129	1.358963
1	-2.454375	2.805202	-0.914028	1	2.526524	3.166173	1.402145
1	-2.403257	4.488150	-1.496986	6	0.069027	-0.790848	4.895354
1	-3.358185	4.074352	-0.051804	6	-0.485001	-2.271586	2.897864
6	-1.290414	5.608395	0.763880	6	-1.416712	0.066416	3.065695
1	-1.297873	6.312178	-0.084083	1	0.885702	-1.469027	5.169908
1	-0.461699	5.886557	1.434980	1	-0.850584	-1.094131	5.420178
1	-2.227349	5.761126	1.322697	1	0.327968	0.229843	5.215876
6	-5.009352	0.220096	-0.171055	1	-1.224651	1.096742	3.398852
6	-6.528676	0.196816	0.073285	1	-2.306098	-0.312659	3.591706
1	-6.786281	-0.209102	1.065157	1	-1.619216	0.073967	1.989821
1	-7.065263	-0.390140	-0.689446	1	0.365152	-2.932477	3.114178
1	-6.922370	1.224747	0.028903	1	-0.672498	-2.264418	1.817985
6	-4.370194	1.084374	0.941558	1	-1.378731	-2.672303	3.400068
1	-3.290992	1.195694	0.794345	27	-0.340920	-0.309873	-0.898004
1	-4.543627	0.634150	1.933277	8	-0.551428	1.556105	-0.828357
1	-4.821549	2.090096	0.947064	8	-2.052155	-0.476293	-0.157325
6	-4.766546	0.862714	-1.558725	7	1.384201	-0.190522	-1.685720
1	-5.309532	0.306551	-2.340635	7	-0.012065	-2.188876	-0.774524
1	-3.703704	0.872983	-1.830223	6	0.312609	2.495976	-1.041379
1	-5.136620	1.901375	-1.566094	6	-0.013363	3.855227	-0.664830
9	-1.111204	-0.417337	-3.047827	6	0.912945	4.847185	-0.962212
1	2.973499	5.414221	-1.548675	1	0.690016	5.880825	-0.698049
1	-5.275810	-4.495166	0.296147	6	2.151663	4.591548	-1.591180

Structure S65. ³TS20

6	5.295600	-0.675604	0.542616	6	2.487628	3.295819	-1.916847
6	5.339676	0.660609	0.135403	1	3.449752	3.069662	-2.384526
				6	1.593678	2.234237	-1.637970
				6	2.023293	0.902306	-1.942088
				1	2.999425	0.822862	-2.435429

6 1.841507 -1.519770 -2.104314
 1 1.231214 -1.779452 -2.987526
 6 1.408062 -2.471938 -0.972263
 1 1.922080 -2.133875 -0.056156
 6 1.786818 -3.922372 -1.260381
 1 1.212668 -4.284531 -2.131406
 1 1.522032 -4.560941 -0.402604
 6 3.288542 -4.027521 -1.554350
 1 3.857910 -3.744507 -0.651305
 1 3.549584 -5.074432 -1.777324
 6 3.691685 -3.115599 -2.716451
 1 3.184228 -3.452751 -3.638004
 1 4.774082 -3.192963 -2.908134
 6 3.326118 -1.652222 -2.438275
 1 3.574074 -1.034243 -3.315537
 1 3.918137 -1.274273 -1.590006
 6 -0.931394 -3.085622 -0.639297
 1 -0.634412 -4.142006 -0.658422
 6 -2.329054 -2.834748 -0.447947
 6 -3.207678 -3.944033 -0.412648
 1 -2.795974 -4.951976 -0.516464
 6 -4.563655 -3.749875 -0.259484
 6 -5.071507 -2.434016 -0.185613
 1 -6.153389 -2.317634 -0.121053
 6 -4.265475 -1.301554 -0.217231
 6 -2.837164 -1.499471 -0.281676
 6 -1.331302 4.163476 0.067895
 6 -1.372722 3.365886 1.392376
 1 -0.556975 3.678853 2.064436
 1 -1.275446 2.290465 1.213006
 1 -2.327275 3.540591 1.915398
 6 -2.530734 3.775703 -0.824605
 1 -2.520259 2.708435 -1.064187
 1 -2.513827 4.343569 -1.769599
 1 -3.478004 4.006451 -0.310312
 6 -1.465169 5.656992 0.412849
 1 -1.483283 6.293655 -0.486414
 1 -0.653783 6.010122 1.069617
 1 -2.413579 5.823280 0.947791
 6 -4.847856 0.121588 -0.290015
 6 -6.386418 0.113664 -0.244539
 1 -6.772590 -0.293856 0.704219
 1 -6.828744 -0.461756 -1.073202
 1 -6.759677 1.146306 -0.332363

6 -4.354754 0.997614 0.884025
 1 -3.273155 1.151930 0.845702
 1 -4.607297 0.534787 1.852396
 1 -4.844506 1.984379 0.846631
 6 -4.414761 0.735870 -1.644613
 1 -4.865519 0.174632 -2.479433
 1 -3.325103 0.712314 -1.779597
 1 -4.755854 1.781322 -1.718213
 9 -1.084619 -0.557885 -2.577753
 1 2.834345 5.417262 -1.803051
 1 -5.249827 -4.598957 -0.227498

Structure S66. ³INT10

6 5.264279 -0.465276 0.650145
 6 5.278053 0.924712 0.508934
 6 4.192788 -1.068359 1.306369
 6 3.131207 -0.314664 1.836963
 6 3.142055 1.097169 1.705151
 6 4.228257 1.682356 1.031641
 1 6.081358 -1.074748 0.255491
 1 6.106309 1.421679 -0.004046
 1 4.157826 -2.152153 1.428361
 6 2.046295 -1.122328 2.502791
 6 2.033127 1.981905 2.203649
 1 4.240123 2.768492 0.910648
 8 2.027780 -2.355511 2.399970
 7 1.216848 -0.508128 3.390374
 9 0.439032 0.010667 0.619217
 6 -0.180126 -0.824161 3.650849
 1 1.878507 1.861285 3.286690
 1 1.098828 1.697347 1.702112
 1 2.246777 3.040448 1.994158
 6 -0.247924 -1.298038 5.117848
 6 -0.815858 -1.862161 2.712302
 6 -0.946173 0.512269 3.495645
 1 0.316760 -2.234704 5.245700
 1 -1.295449 -1.482369 5.406401
 1 0.177991 -0.542654 5.796017
 1 -0.509241 1.303596 4.122817
 1 -1.995133 0.365886 3.797063
 1 -0.918185 0.822293 2.445035
 1 -0.334292 -2.842953 2.811437
 1 -0.718536 -1.518245 1.678195

1 -2.709029 3.117501 0.758776
 6 -3.244471 0.527219 0.568408
 1 -3.172581 -0.032600 1.517313
 6 -3.244787 -0.525420 -0.567890
 1 -3.173309 0.034333 -1.516871
 6 -4.508000 -1.383859 -0.550718
 1 -4.510649 -2.003605 0.363520
 1 -4.513645 -2.070659 -1.412249
 6 -5.761813 -0.501222 -0.576665
 1 -5.804727 0.044003 -1.536488
 1 -6.661570 -1.135816 -0.535069
 6 -5.761377 0.503501 0.578762
 1 -5.803689 -0.041697 1.538625
 1 -6.661096 1.138190 0.537764
 6 -4.507458 1.385947 0.551903
 1 -4.512337 2.072876 1.413340
 1 -4.510633 2.005541 -0.362443
 6 -1.827764 -2.500568 -0.543394
 1 -2.710221 -3.115253 -0.761942
 6 -0.590915 -3.222658 -0.398402
 6 -0.630947 -4.627356 -0.438940
 1 -1.587330 -5.130503 -0.606912
 6 0.526407 -5.367321 -0.253360
 6 1.746495 -4.709846 0.015336
 1 2.621597 -5.331197 0.205154
 6 1.863050 -3.327633 0.064851
 6 0.673330 -2.538071 -0.217005
 6 3.165108 2.616904 -0.468320
 6 2.889808 1.797038 -1.755492
 1 2.664100 2.473135 -2.596569
 1 2.039391 1.111694 -1.644025
 1 3.781998 1.209750 -2.027119
 6 3.656704 1.697953 0.674043
 1 2.932204 0.909887 0.897774
 1 3.831048 2.281439 1.593332
 1 4.610530 1.224464 0.390941
 6 4.292861 3.617038 -0.778756
 1 4.571995 4.217597 0.102349
 1 4.029801 4.304902 -1.598190
 1 5.192125 3.065036 -1.094753
 6 3.163086 -2.618957 0.469584
 6 4.289958 -3.619965 0.780361
 1 4.569650 -4.219974 -0.100946
 1 4.025676 -4.308346 1.598969

1 5.189228 -3.068714 1.097652
 6 3.656174 -1.699495 -0.671687
 1 2.932054 -0.911173 -0.895662
 1 3.831310 -2.282434 -1.591178
 1 4.609825 -1.226409 -0.387315
 6 2.887191 -1.799676 1.756978
 1 2.660163 -2.476043 2.597488
 1 2.037404 -1.113611 1.645108
 1 3.779570 -1.213226 2.029818
 9 -0.629087 -0.610668 1.727836
 1 0.498706 6.458602 0.279906
 1 0.495662 -6.458676 -0.285404
 9 -0.627736 0.611542 -1.727022

Structure S68. Co^{II}(salen)

27 0.000005 0.788728 0.000015
 8 -1.307254 -0.553547 0.081346
 8 1.307257 -0.553557 -0.081292
 7 -1.272977 2.160343 -0.254193
 7 1.272996 2.160340 0.254207
 6 -2.600726 -0.470596 0.034242
 6 -3.400842 -1.662762 0.207113
 6 -4.781908 -1.541762 0.119931
 1 -5.394460 -2.435370 0.239995
 6 -5.464904 -0.319591 -0.116914
 6 -4.697778 0.820116 -0.255745
 1 -5.181733 1.787527 -0.426956
 6 -3.280293 0.776726 -0.180090
 6 -2.563239 2.013636 -0.312974
 1 -3.185030 2.902024 -0.481801
 6 -0.613824 3.460665 -0.463218
 1 -0.226933 3.448715 -1.500163
 6 0.613848 3.460664 0.463225
 1 0.226957 3.448720 1.500170
 6 1.465589 4.715847 0.274592
 1 1.906141 4.704876 -0.738050
 1 2.299941 4.724902 0.992999
 6 0.609658 5.975537 0.463175
 1 0.269405 6.027458 1.513110
 1 1.225810 6.872197 0.287011
 6 -0.609626 5.975537 -0.463176
 1 -0.269373 6.027453 -1.513111
 1 -1.225775 6.872200 -0.287016

6 -1.465561 4.715851 -0.274589
1 -2.299913 4.724907 -0.992997
1 -1.906113 4.704884 0.738053
6 2.563258 2.013630 0.312969
1 3.185054 2.902017 0.481782
6 3.280305 0.776716 0.180084
6 4.697792 0.820099 0.255716
1 5.181755 1.787510 0.426912
6 5.464910 -0.319614 0.116888
6 4.781905 -1.541781 -0.119944
1 5.394451 -2.435394 -0.240009
6 3.400837 -1.662772 -0.207110
6 2.600730 -0.470605 -0.034223
6 -2.717560 -3.016917 0.486478
6 -1.910511 -2.924849 1.803091
1 -2.579412 -2.710063 2.653398
1 -1.151467 -2.134524 1.749508
1 -1.401975 -3.881697 2.008717
6 -1.776394 -3.385874 -0.683591
1 -0.991037 -2.632448 -0.811771
1 -2.342022 -3.467280 -1.627047
1 -1.296370 -4.360622 -0.494777
6 -3.738698 -4.158094 0.645000
1 -4.337333 -4.311295 -0.267346
1 -4.431515 -3.983586 1.483874
1 -3.206292 -5.100617 0.850449
6 2.717530 -3.016914 -0.486468
6 3.738638 -4.158120 -0.644993
1 4.337300 -4.311311 0.267337
1 4.431432 -3.983652 -1.483895
1 3.206204 -5.100636 -0.850399
6 1.776353 -3.385843 0.683600
1 0.991033 -2.632382 0.811792
1 2.341980 -3.467286 1.627053
1 1.296283 -4.360567 0.494778
6 1.910480 -2.924814 -1.803077
1 2.579388 -2.710067 -2.653387
1 1.151476 -2.134450 -1.749495
1 1.401895 -3.881638 -2.008693
6 6.984322 -0.283372 0.204216
6 7.645550 -0.721413 -1.113107
6 7.509235 -1.117420 1.384222
1 7.271457 0.766972 0.387154
1 7.304252 -0.102680 -1.958856

1 8.743695 -0.637647 -1.050847
1 7.407716 -1.772128 -1.350251
1 7.072182 -0.781497 2.338440
1 7.262065 -2.185263 1.260502
1 8.606498 -1.039351 1.465656
6 -6.984314 -0.283342 -0.204258
6 -7.645558 -0.721347 1.113069
6 -7.509220 -1.117415 -1.384250
1 -7.271440 0.767000 -0.387224
1 -7.304271 -0.102592 1.958806
1 -8.743703 -0.637583 1.050793
1 -7.407728 -1.772056 1.350244
1 -7.072149 -0.781522 -2.338470
1 -7.262066 -2.185257 -1.260497
1 -8.606482 -1.039334 -1.465702

Structure S69. PhSO₂N(Et)F

16 -0.572181 -1.043987 -0.247160
8 -0.886534 -1.190107 -1.673728
8 -0.728769 -2.168106 0.672241
6 1.042346 -0.308348 -0.060965
6 1.697326 0.192752 -1.189576
6 1.615486 -0.272696 1.215381
6 2.966411 0.754597 -1.027895
1 1.221739 0.138469 -2.170218
6 2.882201 0.295005 1.358866
1 1.080269 -0.683034 2.073551
6 3.553780 0.806697 0.241042
1 3.497220 1.150529 -1.896853
1 3.348934 0.334371 2.345846
1 4.546374 1.248169 0.360884
7 -1.536096 0.270220 0.478822
9 -2.783663 -0.355284 0.756882
6 -1.827073 1.364415 -0.452283
6 -2.621670 2.459607 0.243068
1 -2.350325 0.976926 -1.343673
1 -0.842298 1.741719 -0.773409
1 -2.795805 3.292293 -0.455826
1 -3.598673 2.080087 0.576843
1 -2.077315 2.843804 1.119795

Structure S70. ²TS21

27	-0.730245	-0.113845	0.967537	1	-0.577880	-3.052688	-1.177569
8	0.060365	-1.791594	0.648719	1	-0.785133	-4.739358	-1.712023
8	-2.224059	-0.731463	0.018584	6	-0.304528	-4.771357	1.001410
7	0.669208	0.413759	2.133679	1	-0.833867	-3.856962	1.297964
7	-1.585174	1.506329	1.445422	1	0.209152	-5.178965	1.888063
6	1.294409	-2.150580	0.809540	1	-1.054020	-5.511958	0.675926
6	1.732919	-3.451709	0.353409	6	1.372857	-5.831708	-0.504251
6	3.092573	-3.731652	0.409167	1	1.906250	-6.280764	0.348967
1	3.444964	-4.691752	0.032282	1	2.086272	-5.726908	-1.337500
6	4.071416	-2.849392	0.939107	1	0.600484	-6.549383	-0.824004
6	3.627296	-1.659480	1.482977	6	-4.070874	-2.284399	-1.524447
1	4.337815	-0.968839	1.947886	6	-5.280200	-2.903334	-2.249241
6	2.257578	-1.296939	1.447352	1	-5.678566	-2.244483	-3.037536
6	1.862762	-0.088903	2.118495	1	-6.102230	-3.143050	-1.555449
1	2.653762	0.412618	2.686131	1	-4.973814	-3.844411	-2.733746
6	0.305997	1.594630	2.932840	6	-2.971622	-2.025101	-2.582437
1	-0.305594	1.215991	3.774172	1	-2.079991	-1.572679	-2.131143
6	-0.623459	2.440537	2.046178	1	-3.343429	-1.345227	-3.367155
1	-0.013806	2.808167	1.205695	1	-2.672576	-2.969244	-3.067413
6	-1.183540	3.643151	2.803096	6	-3.575725	-3.312382	-0.480058
1	-1.834429	3.295568	3.625519	1	-4.359847	-3.511367	0.269842
1	-1.802563	4.261545	2.134336	1	-2.680572	-2.951490	0.038359
6	-0.029929	4.488342	3.360949	1	-3.332146	-4.268756	-0.971554
1	0.543513	4.909748	2.516710	6	-7.502979	1.345925	-0.427891
1	-0.434052	5.341484	3.929823	6	-8.530397	0.385750	0.193296
6	0.907103	3.655599	4.240366	6	-7.859091	1.661688	-1.889969
1	0.358362	3.314420	5.136932	1	-7.549878	2.293120	0.137634
1	1.744989	4.274295	4.600931	1	-8.298891	0.180205	1.251013
6	1.455650	2.434998	3.489475	1	-9.547528	0.809540	0.142916
1	2.078167	1.831408	4.168986	1	-8.548618	-0.580268	-0.338994
1	2.095666	2.755192	2.650633	1	-7.149313	2.382054	-2.327855
6	-2.824325	1.815518	1.222858	1	-7.837192	0.750712	-2.511614
1	-3.193030	2.783660	1.584290	1	-8.872363	2.091009	-1.966693
6	-3.783815	1.015686	0.513656	6	5.546402	-3.222533	0.922577
6	-5.107078	1.513672	0.396025	6	6.086890	-3.321580	-0.513858
1	-5.347711	2.472356	0.867290	6	5.827412	-4.514314	1.706885
6	-6.080950	0.819540	-0.295554	1	6.090124	-2.404031	1.425817
6	-5.703700	-0.408824	-0.897955	1	5.931496	-2.380117	-1.065539
1	-6.473754	-0.944672	-1.453115	1	7.167531	-3.542884	-0.514966
6	-4.428610	-0.956887	-0.827051	1	5.582500	-4.125795	-1.075860
6	-3.419547	-0.235314	-0.085870	1	5.465857	-4.438786	2.745216
6	0.705752	-4.493459	-0.137420	1	5.331899	-5.383362	1.242414
6	-0.048010	-3.986922	-1.386489	1	6.908891	-4.728667	1.736779
1	0.648018	-3.817963	-2.223370	16	2.322076	2.605792	-0.697348

8	3.120466	2.004840	0.385716	6	0.730997	-4.093310	1.861661
8	1.333068	3.642611	-0.383993	1	1.474152	-4.080258	2.679516
6	3.429634	3.223024	-1.956716	1	1.177154	-4.644522	1.018633
6	4.779861	2.861378	-1.917145	6	-0.549439	-4.796300	2.333012
6	2.907922	4.050801	-2.958419	1	-1.250135	-4.869801	1.483690
6	5.629947	3.345709	-2.914632	1	-0.313016	-5.824943	2.650175
1	5.151626	2.219409	-1.116780	6	-1.217878	-4.024077	3.474262
6	3.770552	4.523120	-3.948444	1	-0.545587	-4.012098	4.351387
1	1.849588	4.317800	-2.956808	1	-2.142247	-4.532959	3.792450
6	5.126341	4.171068	-3.926547	6	-1.547174	-2.583960	3.060595
1	6.689313	3.078691	-2.899270	1	-1.977438	-2.036199	3.914355
1	3.383863	5.170553	-4.739037	1	-2.297649	-2.586615	2.255028
1	5.796203	4.545185	-4.704907	6	2.721514	-2.261175	0.778175
7	1.506274	1.415631	-1.650807	1	2.931313	-3.316762	0.991815
9	0.266061	0.980004	-0.557682	6	3.823791	-1.500172	0.265209
6	2.223728	0.163178	-1.796206	6	5.085097	-2.141938	0.167406
6	1.351217	-0.876271	-2.480323	1	5.171096	-3.180173	0.503068
1	2.598965	-0.202831	-0.825398	6	6.187875	-1.483886	-0.340326
1	3.109008	0.398584	-2.418898	6	6.005292	-0.146847	-0.777902
1	1.939752	-1.786530	-2.666083	1	6.875615	0.359291	-1.194710
1	0.505092	-1.133152	-1.830709	6	4.800689	0.543853	-0.716251
1	0.964610	-0.501695	-3.441020	6	3.658088	-0.141866	-0.161185

Structure S71. ⁴INT11

27	0.906743	-0.041530	0.749942	6	0.032570	4.439701	-0.084825
8	0.447752	1.766044	0.890903	6	0.689759	3.746449	-1.299863
8	2.517098	0.479295	-0.072625	1	-0.045507	3.596515	-2.106521
7	-0.487722	-0.524720	1.995945	1	1.104604	2.770429	-1.027566
7	1.522714	-1.823040	0.996394	1	1.503962	4.373082	-1.699144
6	-0.773368	2.223110	0.976675	6	1.087708	4.709392	1.013237
6	-1.079632	3.544984	0.494075	1	1.525395	3.775432	1.386883
6	-2.404412	3.967793	0.558946	1	0.633387	5.244438	1.863950
1	-2.658111	4.951142	0.163839	1	1.902705	5.337236	0.616566
6	-3.462803	3.198550	1.101976	6	-0.505309	5.802753	-0.556600
6	-3.146459	1.955470	1.619018	1	-0.963756	6.378314	0.263635
1	-3.927315	1.324226	2.052456	1	-1.250116	5.700850	-1.362304
6	-1.825416	1.454206	1.566318	1	0.326821	6.404892	-0.955225
6	-1.579521	0.151273	2.121761	6	4.660386	1.982576	-1.250553
1	-2.400935	-0.278776	2.703281	6	5.999594	2.541906	-1.764668
6	-0.292044	-1.870244	2.556155	1	6.404031	1.953649	-2.603754
1	0.432639	-1.770270	3.385900	1	6.764569	2.581851	-0.972460
6	0.404192	-2.665314	1.436574	1	5.849635	3.570492	-2.129942
1	-0.294552	-2.687983	0.584867	6	3.666497	1.981363	-2.436195
				1	2.683762	1.594856	-2.139332
				1	4.049948	1.356045	-3.259349
				1	3.531415	3.004319	-2.824844

6	4.160352	2.923218	-0.129837	1	-2.049161	2.185996	-2.777240
1	4.878582	2.945329	0.707070	1	-0.751203	0.982435	-2.501179
1	3.186172	2.603977	0.255145	1	-1.907492	0.767748	-3.857378
1	4.062404	3.952129	-0.513347	-----			
6	7.547153	-2.159099	-0.452260	Structure S72. Co^{III}(salen)-F			
6	8.626157	-1.416521	0.352513	-----			
6	7.974771	-2.330122	-1.919264	27	-0.016061	0.720084	0.192167
1	7.442989	-3.167964	-0.016292	8	1.304276	-0.536716	-0.230764
1	8.337320	-1.311766	1.410835	8	-1.275220	-0.625162	-0.102407
1	9.586319	-1.957693	0.313324	7	1.274617	2.126715	0.309177
1	8.800929	-0.404273	-0.049211	7	-1.210502	2.094742	-0.464610
1	7.223208	-2.897676	-2.491475	6	2.605102	-0.466353	-0.145217
1	8.103859	-1.352662	-2.413996	6	3.387219	-1.659389	-0.332005
1	8.935084	-2.867960	-1.990055	6	4.772106	-1.546244	-0.245076
6	-4.892062	3.719726	1.092287	1	5.378504	-2.442398	-0.375277
6	-5.423526	3.872611	-0.342703	6	5.459897	-0.334370	0.009985
6	-5.037685	5.032763	1.877381	6	4.697672	0.806312	0.187866
1	-5.513438	2.959535	1.596992	1	5.184468	1.765989	0.388308
1	-5.355926	2.922284	-0.896939	6	3.283702	0.763581	0.121248
1	-6.479101	4.192511	-0.340910	6	2.558734	1.995481	0.291722
1	-4.847902	4.628539	-0.903302	1	3.175336	2.895852	0.407417
1	-4.684363	4.921055	2.915214	6	0.572164	3.406314	0.453414
1	-4.456815	5.846494	1.411635	1	0.063457	3.351521	1.432157
1	-6.091629	5.355994	1.908604	6	-0.529753	3.391470	-0.625198
16	-3.063369	-2.039808	-0.728309	1	-0.019531	3.370092	-1.606175
8	-3.445618	-1.256917	0.464439	6	-1.412394	4.637137	-0.544768
8	-2.148549	-3.181901	-0.577298	1	-1.979859	4.609541	0.401988
6	-4.564502	-2.618719	-1.514692	1	-2.145197	4.641971	-1.366770
6	-5.775030	-1.979467	-1.226634	6	-0.556500	5.909152	-0.604932
6	-4.484828	-3.687516	-2.415395	1	-0.077393	5.978827	-1.598031
6	-6.936265	-2.427885	-1.860445	1	-1.205997	6.793647	-0.505718
1	-5.801691	-1.155009	-0.512000	6	0.524050	5.914913	0.479990
6	-5.654186	-4.123302	-3.040941	1	0.044309	5.940613	1.474467
1	-3.524549	-4.167692	-2.612400	1	1.141904	6.823971	0.402500
6	-6.874993	-3.494486	-2.765224	6	1.420675	4.673563	0.385739
1	-7.892118	-1.944144	-1.645164	1	2.160161	4.678111	1.202111
1	-5.613074	-4.957390	-3.745659	1	1.979788	4.688684	-0.566789
1	-7.786634	-3.840199	-3.259238	6	-2.490570	1.936180	-0.618578
7	-2.480564	-1.083249	-2.008383	1	-3.089877	2.806843	-0.914589
9	-0.241715	-0.480085	-0.705911	6	-3.226549	0.723917	-0.417379
6	-2.691807	0.333993	-1.869936	6	-4.642398	0.774449	-0.518293
6	-1.794204	1.115683	-2.818116	1	-5.115378	1.730051	-0.765831
1	-2.551531	0.658449	-0.826547	6	-5.418967	-0.345147	-0.295704
1	-3.764894	0.519135	-2.106678	6	-4.751447	-1.548940	0.055892

1 -5.374879 -2.419391 0.261105
 6 -3.373152 -1.675446 0.167493
 6 -2.566569 -0.512843 -0.112149
 6 2.690089 -3.011538 -0.583863
 6 1.850411 -2.940768 -1.880988
 1 2.498065 -2.744860 -2.752051
 1 1.093812 -2.148653 -1.825130
 1 1.335416 -3.900548 -2.053337
 6 1.780320 -3.353425 0.620262
 1 1.000232 -2.596748 0.764961
 1 2.373145 -3.422931 1.547465
 1 1.289860 -4.327928 0.461852
 6 3.703414 -4.158865 -0.747599
 1 4.319743 -4.302756 0.154248
 1 4.379099 -3.997550 -1.602957
 1 3.162951 -5.101507 -0.929041
 6 -2.694618 -2.986638 0.607707
 6 -3.721785 -4.093178 0.907606
 1 -4.309100 -4.368640 0.016607
 1 -4.423280 -3.805364 1.706998
 1 -3.194420 -4.999784 1.245095
 6 -1.764439 -3.505041 -0.513538
 1 -0.966397 -2.788179 -0.734973
 1 -2.337140 -3.687128 -1.438492
 1 -1.300902 -4.458936 -0.212128
 6 -1.887099 -2.730680 1.905198
 1 -2.569021 -2.495051 2.739322
 1 -1.183699 -1.894799 1.800025
 1 -1.316768 -3.632885 2.182679
 6 -6.936893 -0.304957 -0.399033
 6 -7.611548 -0.621230 0.945849
 6 -7.455676 -1.238060 -1.505497
 1 -7.214166 0.727292 -0.675676
 1 -7.271407 0.066063 1.737138
 1 -8.708005 -0.533150 0.865532
 1 -7.385868 -1.649241 1.275644
 1 -7.007258 -0.992805 -2.481758
 1 -7.217873 -2.292087 -1.283741
 1 -8.551303 -1.160194 -1.604661
 6 6.979686 -0.304781 0.089741
 6 7.630865 -0.724856 -1.238152
 6 7.505622 -1.159774 1.254143
 1 7.271168 0.741399 0.287884
 1 7.287957 -0.091643 -2.072431

1 8.729407 -0.646143 -1.179831
 1 7.387872 -1.770974 -1.489741
 1 7.073508 -0.838185 2.215380
 1 7.254975 -2.224640 1.113586
 1 8.603267 -1.085628 1.331863
 9 -0.306617 0.805905 2.027595

Structure S73. PhSO₂N(Et)

16 0.683615 -0.752451 -0.261487
 8 0.930406 -1.839022 0.699279
 8 0.953908 -0.961257 -1.693984
 6 -0.992933 -0.172055 -0.063023
 6 -1.641215 -0.383266 1.157384
 6 -1.613064 0.481217 -1.132122
 6 -2.949027 0.083974 1.308637
 1 -1.131297 -0.909068 1.966558
 6 -2.920901 0.942087 -0.964979
 1 -1.082067 0.616410 -2.076015
 6 -3.585110 0.745179 0.251563
 1 -3.473863 -0.072929 2.254099
 1 -3.424094 1.452825 -1.789470
 1 -4.609164 1.106708 0.375205
 7 1.571037 0.616078 0.207992
 6 2.992806 0.373127 0.276199
 6 3.762292 1.669520 0.480620
 1 3.334649 -0.160528 -0.634413
 1 3.179281 -0.338718 1.108480
 1 4.841515 1.463012 0.555319
 1 3.598903 2.357047 -0.364033
 1 3.439423 2.175449 1.404075

Structure S74. [Co^{IV}(salen)-F]⁺

27 0.014941 0.742034 0.212403
 8 1.287023 -0.507508 -0.253458
 8 -1.288660 -0.626380 -0.056077
 7 1.277296 2.133164 0.339814
 7 -1.192437 2.122087 -0.515269
 6 2.591960 -0.460591 -0.149976
 6 3.353143 -1.665106 -0.329184
 6 4.738255 -1.564443 -0.231831
 1 5.336963 -2.465312 -0.360650
 6 5.436896 -0.360325 0.031139

6	4.690055	0.792349	0.206449	6	-2.692729	-3.028815	0.550724
1	5.186927	1.744055	0.415080	6	-3.726177	-4.141048	0.800658
6	3.278677	0.763762	0.127852	1	-4.312365	-4.374124	-0.102318
6	2.563070	1.996006	0.303277	1	-4.423420	-3.885237	1.613655
1	3.180031	2.896320	0.407797	1	-3.200161	-5.061000	1.097852
6	0.575121	3.419546	0.459787	6	-1.756678	-3.500130	-0.589823
1	0.045415	3.380365	1.427106	1	-0.939541	-2.794660	-0.770858
6	-0.500725	3.415059	-0.651288	1	-2.321741	-3.632682	-1.526814
1	0.036144	3.374541	-1.616183	1	-1.316428	-4.473275	-0.321944
6	-1.373089	4.666416	-0.599060	6	-1.894609	-2.819035	1.864696
1	-1.957521	4.654874	0.337717	1	-2.578216	-2.578151	2.694908
1	-2.089646	4.667912	-1.435871	1	-1.156576	-2.010882	1.788289
6	-0.499528	5.926458	-0.654164	1	-1.364619	-3.749127	2.123915
1	0.001503	5.979424	-1.636999	6	-6.891146	-0.276825	-0.347943
1	-1.140473	6.818758	-0.577483	6	-7.555254	-0.631415	0.995603
6	0.555128	5.928307	0.455559	6	-7.419116	-1.174065	-1.482946
1	0.054226	5.971582	1.438652	1	-7.151964	0.766276	-0.590700
1	1.188082	6.826616	0.382250	1	-7.194452	0.018186	1.808478
6	1.439471	4.676368	0.394822	1	-8.647045	-0.507083	0.917437
1	2.159539	4.679528	1.228125	1	-7.356612	-1.677547	1.279790
1	2.018050	4.672176	-0.545770	1	-6.969297	-0.906885	-2.452052
6	-2.469017	1.982913	-0.591014	1	-7.204270	-2.237193	-1.287752
1	-3.089826	2.855774	-0.829649	1	-8.511573	-1.063082	-1.570830
6	-3.206680	0.749633	-0.374949	6	6.954494	-0.350332	0.122650
6	-4.591450	0.796995	-0.462616	6	7.606150	-0.777227	-1.202781
1	-5.082082	1.745815	-0.695864	6	7.455763	-1.216680	1.289576
6	-5.384771	-0.351722	-0.251708	1	7.257297	0.691115	0.325634
6	-4.742316	-1.573711	0.060522	1	7.276969	-0.138344	-2.038151
1	-5.377598	-2.439118	0.241488	1	8.704479	-0.710631	-1.135217
6	-3.366981	-1.711074	0.157580	1	7.353463	-1.820389	-1.456274
6	-2.550642	-0.519521	-0.086995	1	7.020848	-0.891088	2.248085
6	2.646846	-3.009177	-0.591325	1	7.192663	-2.277596	1.143196
6	1.821481	-2.927944	-1.896999	1	8.553166	-1.156346	1.375221
1	2.478957	-2.726589	-2.758909	9	-0.448282	0.841501	1.985136
1	1.061716	-2.138118	-1.850297	-----			
1	1.310622	-3.887288	-2.080741	Structure S75. PhSO₂N⁻(Et)			
6	1.728940	-3.346141	0.607615	-----			
1	0.952095	-2.586713	0.753904	16	-0.733145	-0.743890	0.230306
1	2.316953	-3.423295	1.536797	8	-0.791406	-2.005097	-0.577017
1	1.232575	-4.316034	0.443285	8	-0.872224	-0.999862	1.700123
6	3.653995	-4.162379	-0.750575	6	0.946272	-0.091422	0.010548
1	4.262080	-4.313160	0.155355	6	1.920887	-0.904279	-0.571849
1	4.335970	-4.003176	-1.600933	6	1.279888	1.175358	0.505290
1	3.107700	-5.099916	-0.938402	6	3.240435	-0.446061	-0.667307

1 1.624835 -1.885314 -0.949092
6 2.596833 1.630210 0.405098
1 0.498695 1.796369 0.948323
6 3.580301 0.820026 -0.179771
1 4.004239 -1.079909 -1.127146
1 2.859776 2.622159 0.783802
1 4.610739 1.178456 -0.255755
7 -1.585272 0.466962 -0.325744
6 -3.020725 0.327421 -0.151391
6 -3.718079 1.596706 -0.634371
1 -3.309071 0.147504 0.909942
1 -3.442921 -0.538806 -0.713972
1 -4.814011 1.531739 -0.518653
1 -3.359249 2.471985 -0.065946
1 -3.491633 1.781230 -1.698509

Structure S76. 16

6 -1.786535 -1.045916 0.000005
6 -0.409847 -1.286937 0.000003
6 0.516752 -0.225320 -0.000013
6 0.013041 1.092505 -0.000006
6 -1.360469 1.333991 0.000000
6 -2.268371 0.266383 0.000001
1 -2.485376 -1.886835 0.000015
1 -0.040805 -2.316762 0.000009
1 0.703211 1.939196 -0.000002
1 -1.728343 2.363718 0.000005
1 -3.344411 0.459525 0.000003
6 1.959150 -0.534177 -0.000008
6 2.978712 0.338744 0.000011
1 2.196694 -1.605065 -0.000022
1 4.014549 -0.012449 0.000013
1 2.829888 1.423040 0.000024

Structure S77. ²TS22

6 4.670228 -0.928497 -1.336776
6 3.329121 -1.139229 -1.023251
6 2.850728 -0.929809 0.292059
6 3.775696 -0.510537 1.275337
6 5.117784 -0.301071 0.959163
6 5.571425 -0.506997 -0.349120
1 5.019057 -1.094063 -2.359588

1 2.643928 -1.470558 -1.806221
1 3.424347 -0.341050 2.297008
1 5.814202 0.027311 1.735144
1 6.622514 -0.341625 -0.599569
6 1.453791 -1.108918 0.666810
6 0.417815 -1.408804 -0.171958
1 1.212382 -0.916236 1.716578
1 0.573800 -1.669839 -1.219721
1 -0.564050 -1.646555 0.237816
7 -0.359562 0.642896 -0.854560
16 -1.424070 1.156931 0.331672
6 0.752727 1.537509 -1.158267
8 -1.887662 2.504595 -0.061107
8 -0.913871 0.966275 1.702841
6 -2.780565 0.007854 0.081243
6 1.416042 2.316532 -0.022835
1 0.377194 2.247332 -1.922418
1 1.497469 0.911957 -1.677623
6 -3.432928 -0.012894 -1.156431
6 -3.187987 -0.804073 1.141148
1 2.273156 2.883452 -0.420035
1 0.715016 3.030390 0.433542
1 1.783339 1.644668 0.764609
6 -4.509255 -0.883219 -1.334348
1 -3.096948 0.636992 -1.966685
6 -4.271033 -1.669208 0.951113
1 -2.659814 -0.755860 2.094889
6 -4.927424 -1.709871 -0.282696
1 -5.026288 -0.916083 -2.296554
1 -4.600504 -2.312040 1.771160
1 -5.771470 -2.388946 -0.428180

Structure S78. 17

6 -4.779001 1.248467 -1.283486
6 -3.426957 1.022923 -1.050533
6 -2.960936 0.586279 0.228978
6 -3.948576 0.393629 1.246927
6 -5.295955 0.622053 1.001267
6 -5.726187 1.052850 -0.265395
1 -5.106218 1.581207 -2.272609
1 -2.714567 1.180628 -1.862613
1 -3.622628 0.057710 2.235366
1 -6.026197 0.465022 1.800060

1	-6.787048	1.232565	-0.456941	1	0.122925	5.061230	-0.653706
6	-1.598903	0.334150	0.525479	1	0.320904	2.862757	-2.633142
6	-0.439821	0.474435	-0.412787	1	-0.226628	2.158316	-1.142269
1	-1.344535	-0.019608	1.528417	7	-1.538460	3.580907	-2.022764
1	-0.751185	0.806770	-1.413526	16	-2.815636	3.095377	-1.081008
1	0.249468	1.254762	-0.041769	6	-1.802127	4.094921	-3.370191
7	0.352859	-0.755230	-0.600569	8	-3.906508	4.061515	-1.267996
16	1.544075	-1.059392	0.538032	8	-2.265681	2.863344	0.263927
6	-0.251938	-1.904342	-1.294413	6	-3.378344	1.514098	-1.728346
8	2.101417	-2.380869	0.215504	6	-1.172447	5.464742	-3.597367
8	1.056439	-0.790993	1.902247	1	-2.890775	4.162895	-3.503086
6	2.776945	0.191611	0.158679	1	-1.428119	3.367328	-4.113789
6	-1.127837	-2.811285	-0.432655	6	-2.532519	0.399437	-1.658256
1	0.561415	-2.490593	-1.746165	6	-4.654623	1.433470	-2.295405
1	-0.837542	-1.474719	-2.123155	1	-1.385635	5.816560	-4.619969
6	3.437325	0.131027	-1.073992	1	-1.579815	6.197245	-2.882391
6	3.074881	1.173428	1.105624	1	-0.078186	5.432117	-3.472596
1	-1.521543	-3.642341	-1.040967	6	-2.985566	-0.813522	-2.180938
1	-0.540361	-3.243805	0.391933	1	-1.533963	0.445787	-1.215758
1	-1.982463	-2.266647	-0.004404	6	-5.093763	0.208329	-2.806051
6	4.412743	1.086327	-1.361468	1	-5.290545	2.319276	-2.328102
1	3.189971	-0.650180	-1.795592	6	-4.260593	-0.914034	-2.748155
6	4.055284	2.125167	0.804666	1	-2.335230	-1.687038	-2.125737
1	2.544480	1.185735	2.059030	1	-6.091130	0.132506	-3.246177
6	4.720582	2.082051	-0.424143	1	-4.608310	-1.873170	-3.140289
1	4.937366	1.053998	-2.319528	27	0.510332	-0.662475	0.958381
1	4.297975	2.901063	1.534865	8	-0.817704	-1.973564	0.888282
1	5.485662	2.827594	-0.655433	8	1.708015	-1.963116	0.348491

Structure S79. ⁴INT12

6	3.976946	2.523055	-0.421872	7	-0.676327	0.599869	1.759125
6	2.637561	2.672626	-0.767966	7	1.899037	0.291435	1.888740
6	1.955933	3.905836	-0.523182	6	-2.112438	-1.880187	1.043165
6	2.689567	4.944766	0.129232	6	-2.940610	-3.020113	0.755793
6	4.022618	4.774102	0.481239	6	-4.319254	-2.860282	0.872004
6	4.683099	3.565393	0.198990	1	-4.965114	-3.703225	0.626919
1	4.476293	1.572396	-0.622354	6	-4.952308	-1.662533	1.283584
1	2.092746	1.821139	-1.181087	6	-4.140430	-0.589528	1.605718
1	2.184477	5.891187	0.342308	1	-4.582449	0.354858	1.937223
1	4.560624	5.586936	0.977156	6	-2.733228	-0.676383	1.496672
1	5.734294	3.435158	0.469065	6	-1.956221	0.474656	1.871441
6	0.608894	4.115942	-0.909403	1	-2.521205	1.314283	2.287163
6	-0.190467	3.117403	-1.685509	6	0.061239	1.810770	2.140996
				1	0.336105	2.301488	1.192945
				6	1.358952	1.318200	2.799600
				1	1.074466	0.798945	3.734110

7	-1.497786	4.036887	-1.482798	6	0.729160	2.493243	5.287831
16	-2.592194	3.400157	-0.374949	1	0.441219	1.777542	6.079317
6	-1.953511	5.111936	-2.379992	1	1.300070	3.295951	5.782967
8	-3.559502	4.460857	-0.065991	6	-0.534908	3.057218	4.633996
8	-1.800032	2.800078	0.706184	1	-0.254281	3.840264	3.906647
6	-3.453542	2.066092	-1.206699	1	-1.175590	3.542307	5.388441
6	-0.942836	6.251864	-2.437211	6	-1.321017	1.960779	3.907877
1	-2.908190	5.491692	-1.996388	1	-2.187515	2.397652	3.388566
1	-2.144819	4.702487	-3.389465	1	-1.702598	1.226604	4.640262
6	-2.854617	0.801485	-1.268177	6	2.879266	-0.160921	2.488909
6	-4.691702	2.328082	-1.805926	1	3.432346	0.221766	3.359803
1	-1.304700	7.044978	-3.111635	6	3.706205	-0.773824	1.479494
1	-0.796493	6.683676	-1.434452	6	5.111780	-0.639611	1.605079
1	0.037738	5.915488	-2.811332	1	5.512992	-0.149676	2.498666
6	-3.515412	-0.215403	-1.962588	6	5.971319	-1.073668	0.611741
1	-1.890958	0.615487	-0.791087	6	5.394592	-1.649441	-0.550797
6	-5.340305	1.296734	-2.488943	1	6.076391	-1.944877	-1.348671
1	-5.141043	3.319092	-1.722267	6	4.030348	-1.843202	-0.728530
6	-4.750711	0.028638	-2.569915	6	3.146669	-1.442852	0.338212
1	-3.062576	-1.205961	-2.009516	6	-2.030027	-4.228708	-0.888066
1	-6.311963	1.482025	-2.953766	6	-1.037249	-5.001414	0.012271
1	-5.262857	-0.777568	-3.100450	1	-1.573334	-5.547838	0.806403
27	0.383217	-0.615842	0.852267	1	-0.317412	-4.320794	0.483441
8	-0.837499	-2.107185	0.608507	1	-0.477083	-5.740235	-0.585413
8	1.880631	-1.694549	0.258876	6	-1.253108	-3.490196	-2.005106
7	-1.031279	0.168315	2.120638	1	-0.598053	-2.711015	-1.596289
7	1.596119	0.015635	2.431502	1	-1.948444	-3.025975	-2.723967
6	-2.132213	-2.169624	0.669460	1	-0.626701	-4.203091	-2.566840
6	-2.828331	-3.214560	-0.041888	6	-2.948296	-5.262462	-1.564957
6	-4.215954	-3.253774	0.050876	1	-3.671638	-4.791762	-2.250209
1	-4.757271	-4.031536	-0.488007	1	-3.511637	-5.861925	-0.831764
6	-4.987252	-2.332992	0.802901	1	-2.338900	-5.959680	-2.162123
6	-4.309707	-1.335155	1.483886	6	3.432297	-2.418267	-2.027252
1	-4.869580	-0.597842	2.068463	6	4.521018	-2.728264	-3.070300
6	-2.901568	-1.225972	1.431817	1	5.231775	-3.493079	-2.717312
6	-2.282672	-0.139330	2.158901	1	5.093958	-1.829256	-3.349271
1	-2.969952	0.457530	2.775944	1	4.051138	-3.115202	-3.988847
6	-0.433191	1.253999	2.887187	6	2.671323	-3.732664	-1.733484
1	-0.116682	1.999606	2.138626	1	1.836380	-3.564498	-1.042596
6	0.858694	0.685513	3.516999	1	3.346201	-4.483918	-1.289493
1	0.552694	-0.097285	4.237242	1	2.269234	-4.155825	-2.669714
6	1.625753	1.781108	4.267519	6	2.471526	-1.375603	-2.651290
1	2.006995	2.509256	3.529151	1	3.026486	-0.473871	-2.954308
1	2.500937	1.356743	4.783159	1	1.683875	-1.061959	-1.954499

1	1.990676	-1.795230	-3.551560	8	-4.813503	1.720053	-2.749070
6	7.478285	-0.891415	0.721268	8	-3.520229	1.094008	-0.645286
6	8.003628	0.100426	-0.330819	6	-4.645893	-0.831625	-2.050003
6	8.231572	-2.228664	0.641045	6	-1.520959	1.836231	-4.900279
1	7.678879	-0.456514	1.716034	1	-3.563377	1.206328	-4.643790
1	7.499410	1.076814	-0.247663	1	-2.430871	-0.142909	-4.856299
1	9.087488	0.267363	-0.211952	6	-4.346543	-1.726297	-1.016889
1	7.836880	-0.278697	-1.353158	6	-5.463949	-1.195430	-3.126450
1	7.877176	-2.934981	1.409069	1	-1.585281	1.904704	-5.998446
1	8.095074	-2.708523	-0.342696	1	-1.691543	2.836214	-4.473259
1	9.314462	-2.079914	0.788345	1	-0.495925	1.528569	-4.640729
6	-6.505857	-2.433643	0.839441	6	-4.874557	-3.019443	-1.075112
6	-6.984993	-3.786623	1.389683	1	-3.729780	-1.409859	-0.174795
6	-7.126877	-2.148097	-0.538324	6	-5.984227	-2.490683	-3.169006
1	-6.863033	-1.650270	1.530404	1	-5.699845	-0.470431	-3.907434
1	-6.564965	-3.985627	2.388857	6	-5.687547	-3.401460	-2.147430
1	-8.084636	-3.808426	1.472211	1	-4.652421	-3.728132	-0.274462
1	-6.687619	-4.618468	0.729351	1	-6.628877	-2.787611	-3.999917
1	-6.838524	-1.151051	-0.905779	1	-6.098095	-4.413602	-2.184925
1	-6.797245	-2.889828	-1.285628	27	1.445143	0.391763	1.428813
1	-8.228282	-2.189858	-0.491066	8	0.023999	-0.782282	1.863237
9	0.239186	0.547704	-0.587644	8	2.465654	-1.116596	0.893928

Structure S81. ²INT13

6	1.696508	3.417899	-2.393374	7	0.400072	1.941748	1.781672
6	1.222633	2.142071	-2.068708	7	2.923426	1.573355	1.257318
6	-0.088863	1.973870	-1.604237	6	-1.209291	-0.526405	2.161118
6	-0.922016	3.094431	-1.464457	6	-2.147217	-1.613726	2.339945
6	-0.447536	4.367129	-1.792665	6	-3.476471	-1.299700	2.600176
6	0.862764	4.533102	-2.258715	1	-4.195041	-2.112995	2.703369
1	2.724322	3.540056	-2.745390	6	-3.975630	0.022706	2.719945
1	1.879229	1.274161	-2.151840	6	-3.069595	1.055366	2.586676
1	-1.939193	2.961631	-1.092289	1	-3.412143	2.092743	2.657817
1	-1.101428	5.235449	-1.676504	6	-1.700066	0.816388	2.312103
1	1.233960	5.530487	-2.508577	6	-0.851089	1.960320	2.129399
6	-0.607192	0.605215	-1.248872	1	-1.341048	2.931802	2.270165
6	-1.409757	-0.092617	-2.356652	6	1.147412	3.177354	1.492708
1	-1.199196	0.650566	-0.327319	1	1.106589	3.309996	0.399139
1	-0.708740	-0.313154	-3.173385	6	2.615674	2.890200	1.840307
1	-1.761297	-1.064935	-1.966736	1	2.668664	2.762466	2.938850
7	-2.499164	0.701223	-2.918698	6	3.517760	4.058383	1.440325
16	-3.917495	0.806009	-2.032818	1	3.508504	4.155787	0.340400
6	-2.559694	0.847858	-4.383229	1	4.558512	3.865552	1.743039
				6	3.027058	5.359470	2.089323
				1	3.144230	5.282382	3.185415
				1	3.662690	6.199037	1.763628

6 1. 559285 5. 640981 1. 756619
1 1. 460610 5. 822525 0. 671561
1 1. 219483 6. 558812 2. 263576
6 0. 651686 4. 466819 2. 146886
1 -0. 380286 4. 684092 1. 831209
1 0. 639177 4. 339024 3. 244077
6 4. 095991 1. 273795 0. 790233
1 4. 867476 2. 054384 0. 764514
6 4. 504509 -0. 010733 0. 291245
6 5. 809791 -0. 117804 -0. 256807
1 6. 441927 0. 776708 -0. 273664
6 6. 289903 -1. 309851 -0. 762620
6 5. 416095 -2. 428463 -0. 727995
1 5. 792964 -3. 361963 -1. 146215
6 4. 127264 -2. 402061 -0. 211097
6 3. 638990 -1. 159522 0. 354418
6 -1. 664805 -3. 071783 2. 205441
6 -0. 548781 -3. 355091 3. 237949
1 -0. 926375 -3. 218416 4. 265311
1 0. 306733 -2. 685528 3. 089116
1 -0. 196187 -4. 396098 3. 144925
6 -1. 128211 -3. 305741 0. 774201
1 -0. 310960 -2. 613392 0. 544413
1 -1. 929805 -3. 163250 0. 030256
1 -0. 753743 -4. 337532 0. 668314
6 -2. 795985 -4. 084275 2. 458385
1 -3. 620589 -3. 978072 1. 736180
1 -3. 218304 -3. 993043 3. 472159
1 -2. 401954 -5. 108167 2. 355199
6 3. 201103 -3. 633038 -0. 280875
6 3. 908300 -4. 859946 -0. 885851
1 4. 777150 -5. 177235 -0. 286461
1 4. 251410 -4. 680022 -1. 917307
1 3. 205060 -5. 707692 -0. 920289
6 2. 705681 -4. 029224 1. 128859
1 2. 124080 -3. 220569 1. 584665
1 3. 557578 -4. 264127 1. 789385
1 2. 070951 -4. 929338 1. 069479
6 1. 995502 -3. 289351 -1. 187524
1 2. 334402 -3. 083336 -2. 217006
1 1. 457890 -2. 407221 -0. 821289
1 1. 289225 -4. 135683 -1. 228539
6 7. 690502 -1. 434412 -1. 345473
6 7. 662710 -1. 826276 -2. 832101

6 8. 559611 -2. 412531 -0. 538002
1 8. 159915 -0. 437271 -1. 274669
1 7. 068635 -1. 111412 -3. 424353
1 8. 681974 -1. 853636 -3. 253139
1 7. 220014 -2. 826571 -2. 974638
1 8. 615358 -2. 116853 0. 522156
1 8. 150612 -3. 436342 -0. 578160
1 9. 587908 -2. 451093 -0. 935851
6 -5. 464173 0. 289516 2. 890265
6 -6. 072276 -0. 442723 4. 095402
6 -6. 227433 -0. 039935 1. 595210
1 -5. 575928 1. 373339 3. 069870
1 -5. 541713 -0. 191281 5. 028237
1 -7. 133893 -0. 172490 4. 224310
1 -6. 027487 -1. 537650 3. 969219
1 -5. 793299 0. 495162 0. 736862
1 -6. 179463 -1. 119077 1. 371380
1 -7. 292678 0. 235903 1. 679107
9 0. 476777 -0. 252569 -0. 999254

Structure S82. 18

6 -3. 974023 -2. 291852 -0. 513763
6 -2. 946462 -1. 376484 -0. 754981
6 -2. 967109 -0. 110803 -0. 147987
6 -4. 030620 0. 228903 0. 698388
6 -5. 061689 -0. 687009 0. 935048
6 -5. 035390 -1. 948763 0. 332630
1 -3. 950827 -3. 273745 -0. 993997
1 -2. 122442 -1. 640351 -1. 424377
1 -4. 052271 1. 216990 1. 162091
1 -5. 890676 -0. 411671 1. 592739
1 -5. 842294 -2. 662796 0. 517590
6 -0. 604962 0. 495241 0. 481514
1 -0. 862031 0. 680053 1. 535829
1 -0. 410824 -0. 585675 0. 392032
7 0. 588982 1. 271529 0. 156472
16 1. 600241 0. 659056 -1. 022528
6 1. 111061 2. 252482 1. 119037
8 2. 527969 1. 728977 -1. 403843
8 0. 734597 0. 015304 -2. 021662
6 2. 552932 -0. 641291 -0. 229239
6 0. 345830 3. 569215 1. 077830
1 2. 167078 2. 434937 0. 879707

1 1.080954 1.809859 2.130774
 6 3.729277 -0.305543 0.451851
 6 2.080044 -1.958145 -0.267435
 1 0.776727 4.281325 1.800818
 1 0.406114 4.010143 0.070361
 1 -0.716431 3.423126 1.320581
 6 4.432989 -1.310137 1.120077
 1 4.094462 0.722767 0.442560
 6 2.794725 -2.952884 0.406125
 1 1.178042 -2.198863 -0.832082
 6 3.965257 -2.629741 1.100960
 1 5.355151 -1.062493 1.651667
 1 2.438485 -3.985623 0.380290
 1 4.521623 -3.412012 1.623505
 6 -1.819529 0.843368 -0.382156
 1 -1.514366 0.831263 -1.439014
 9 -2.213080 2.151507 -0.078809

Structure S83. ³INT14

27 0.074149 -0.328289 -1.642078
 8 1.202525 0.975263 -0.903619
 8 -1.362462 0.834721 -1.339087
 7 1.520101 -1.563707 -1.796357
 7 -0.951957 -1.881421 -1.127495
 6 2.499638 1.007897 -0.750773
 6 3.120502 2.201052 -0.240023
 6 4.502039 2.188712 -0.061395
 1 4.985916 3.082856 0.330791
 6 5.333792 1.081990 -0.355375
 6 4.726939 -0.054336 -0.860775
 1 5.328382 -0.937230 -1.099323
 6 3.329135 -0.110969 -1.066685
 6 2.763439 -1.348519 -1.537025
 1 3.470956 -2.177253 -1.664874
 6 0.963955 -2.858041 -2.196439
 1 0.499692 -2.682425 -3.182442
 6 -0.166819 -3.129019 -1.191734
 1 0.294126 -3.266229 -0.201492
 6 -0.946899 -4.390395 -1.564701
 1 -1.475279 -4.214289 -2.518336
 1 -1.708441 -4.611660 -0.802009
 6 0.007851 -5.585378 -1.694095
 1 0.432174 -5.813675 -0.699853

1 -0.557742 -6.477569 -2.008226
 6 1.149620 -5.304506 -2.676514
 1 0.736857 -5.178274 -3.693208
 1 1.838961 -6.163283 -2.718499
 6 1.925773 -4.038084 -2.288911
 1 2.715479 -3.829699 -3.028348
 1 2.415730 -4.188924 -1.311035
 6 -2.175824 -1.857839 -0.690259
 1 -2.619257 -2.801569 -0.351819
 6 -3.035548 -0.716131 -0.621348
 6 -4.358344 -0.899230 -0.139021
 1 -4.652198 -1.892535 0.214300
 6 -5.261124 0.144265 -0.105419
 6 -4.842476 1.393183 -0.639560
 1 -5.580048 2.195790 -0.660941
 6 -3.570181 1.644338 -1.134715
 6 -2.599148 0.580354 -1.050942
 6 2.268223 3.447047 0.071188
 6 1.194753 3.103651 1.129437
 1 1.663789 2.772387 2.071270
 1 0.533910 2.306290 0.775805
 1 0.579630 3.990895 1.354551
 6 1.593904 3.936931 -1.232236
 1 0.962846 3.157822 -1.677692
 1 2.355160 4.231971 -1.973266
 1 0.962809 4.817631 -1.028291
 6 3.116475 4.606002 0.624519
 1 3.886891 4.938497 -0.089343
 1 3.616278 4.340841 1.570256
 1 2.464396 5.470347 0.828354
 6 -3.177553 2.990976 -1.774547
 6 -4.380888 3.944697 -1.885572
 1 -4.792493 4.214206 -0.899593
 1 -5.195684 3.516315 -2.491268
 1 -4.063009 4.880194 -2.372924
 6 -2.092477 3.696432 -0.929455
 1 -1.210990 3.059503 -0.800389
 1 -2.484833 3.967265 0.064962
 1 -1.773490 4.629253 -1.423317
 6 -2.646577 2.737560 -3.207725
 1 -3.435187 2.293566 -3.838053
 1 -1.782906 2.059596 -3.217089
 1 -2.342956 3.690722 -3.672331
 6 -6.660905 -0.024518 0.466316

6	-7.752532	0.228661	-0.585413
6	-6.868438	0.863676	1.704238
1	-6.750496	-1.075637	0.791556
1	-7.623723	-0.427707	-1.461183
1	-8.754764	0.042939	-0.164195
1	-7.733082	1.272014	-0.942679
1	-6.104319	0.663050	2.472713
1	-6.806568	1.933403	1.441670
1	-7.860447	0.689913	2.154020
6	6.832001	1.140887	-0.095200
6	7.135412	1.262807	1.407380
6	7.514202	2.265674	-0.889473
1	7.256995	0.183322	-0.443032
1	6.684074	0.433057	1.974999
1	8.222581	1.252015	1.593211
1	6.736884	2.205492	1.819110
1	7.317433	2.169977	-1.969465
1	7.154874	3.258419	-0.570393
1	8.606435	2.246570	-0.738169
9	-0.003545	-0.184948	-3.491048
16	-0.133860	-2.113594	2.859745
8	0.144219	-2.737858	4.158801
8	-0.801168	-2.892201	1.815290
6	-0.954456	-0.551870	3.104808
6	-1.465274	-0.267731	4.375859
6	-1.131346	0.309783	2.017080
6	-2.185086	0.915665	4.554133
1	-1.299486	-0.960828	5.202069
6	-1.845423	1.491179	2.217095
1	-0.708710	0.081999	1.040115
6	-2.375109	1.789902	3.477437
1	-2.596270	1.154835	5.537674
1	-1.986022	2.175323	1.381248
1	-2.938053	2.715357	3.621835
7	1.369793	-1.498242	2.111812
9	1.923892	-2.641441	1.461544
6	2.351102	-1.080541	3.120217
6	3.615711	-0.539044	2.475817
1	2.563939	-1.916971	3.807897
1	1.840456	-0.290839	3.695909
1	4.308142	-0.206079	3.264033
1	4.118248	-1.315204	1.882357
1	3.396344	0.314233	1.820099

Structure S84. ³TS24

27	-0.088511	0.447177	-1.046242
8	-1.272874	-1.004374	-1.131773
8	1.233201	-0.736071	-0.463199
7	-1.417823	1.698637	-1.598461
7	1.031114	1.966658	-0.760345
6	-2.561164	-0.949068	-1.003521
6	-3.268724	-2.067476	-0.429083
6	-4.657222	-2.027962	-0.440130
1	-5.207832	-2.868674	-0.018831
6	-5.421760	-0.943473	-0.943560
6	-4.734956	0.162253	-1.410151
1	-5.284506	1.046222	-1.748762
6	-3.319078	0.197618	-1.416498
6	-2.676185	1.438508	-1.741909
1	-3.336697	2.238080	-2.100392
6	-0.805108	3.001151	-1.876383
1	-0.249639	2.886042	-2.823611
6	0.243606	3.197616	-0.760121
1	-0.289653	3.212362	0.203817
6	1.015350	4.504685	-0.920301
1	1.622641	4.461832	-1.841526
1	1.706091	4.638039	-0.073158
6	0.041703	5.687192	-0.997768
1	-0.493697	5.780823	-0.035987
1	0.606430	6.622938	-1.138382
6	-0.973018	5.500338	-2.129257
1	-0.442691	5.491562	-3.098242
1	-1.675811	6.348542	-2.160852
6	-1.758347	4.191874	-1.972611
1	-2.444793	4.062752	-2.823792
1	-2.373406	4.234163	-1.056233
6	2.320403	1.913900	-0.729446
1	2.882900	2.853835	-0.664344
6	3.107751	0.715451	-0.768438
6	4.515387	0.845503	-0.835066
1	4.947966	1.850504	-0.858984
6	5.338310	-0.265323	-0.874555
6	4.717352	-1.541352	-0.892512
1	5.370874	-2.408891	-0.979656
6	3.345142	-1.743986	-0.827303
6	2.500442	-0.582182	-0.687920
6	-2.484036	-3.216060	0.232258

1	-0.174766	2.648773	-3.097412	1	1.213481	-2.763047	0.729036
6	0.359819	3.062616	-1.061290	1	2.655192	-3.371412	1.580960
1	-0.157155	3.103133	-0.086664	1	1.613437	-4.498410	0.679188
6	1.114121	4.366870	-1.300468	6	2.035549	-3.449258	-1.872003
1	1.701428	4.286409	-2.232407	1	2.671237	-3.400587	-2.771613
1	1.824052	4.547556	-0.478013	1	1.264782	-2.673427	-1.961620
6	0.126822	5.535455	-1.407659	1	1.540377	-4.433486	-1.860863
1	-0.387171	5.664481	-0.438673	6	6.974741	-0.205332	-0.646892
1	0.677730	6.469689	-1.602784	6	7.689248	-0.999899	-1.752853
6	-0.910832	5.287237	-2.505920	6	7.508709	-0.588482	0.745550
1	-0.402333	5.241564	-3.485644	1	7.193233	0.863651	-0.807913
1	-1.623993	6.125663	-2.558559	1	7.319122	-0.720597	-2.752152
6	-1.677411	3.979003	-2.273863	1	8.773408	-0.803269	-1.723867
1	-2.379682	3.807557	-3.104426	1	7.546726	-2.086059	-1.630063
1	-2.272272	4.054247	-1.346592	1	7.027975	0.006968	1.538353
6	2.437615	1.806822	-0.944931	1	7.323652	-1.653393	0.963660
1	3.000716	2.748522	-0.944262	1	8.596204	-0.417886	0.802271
6	3.236725	0.606425	-0.840439	6	-6.811826	-1.205391	-0.995758
6	4.628011	0.740529	-0.839966	6	-7.382984	-1.181572	0.432585
1	5.063282	1.739194	-0.937997	6	-7.327503	-2.425665	-1.775678
6	5.468687	-0.367347	-0.704246	1	-7.175034	-0.300951	-1.514005
6	4.876850	-1.654815	-0.608675	1	-7.041885	-0.292420	0.986339
1	5.550337	-2.508055	-0.543983	1	-8.485630	-1.169766	0.413373
6	3.510537	-1.873204	-0.604178	1	-7.071093	-2.071231	1.004825
6	2.635833	-0.704695	-0.659279	1	-6.950581	-2.428114	-2.811152
6	-2.349441	-3.234391	0.455140	1	-7.009933	-3.368868	-1.300343
6	-1.525074	-2.502425	1.546772	1	-8.429722	-2.428326	-1.813329
1	-2.197537	-2.014093	2.270607	9	0.620252	0.018583	-2.817264
1	-0.874004	-1.725035	1.128045	16	-0.678048	2.103526	3.126935
1	-0.902172	-3.225879	2.098799	8	-0.920817	2.415105	4.549437
6	-1.419005	-4.032800	-0.485005	8	-0.511754	3.245775	2.206797
1	-0.682968	-3.379443	-0.963221	6	0.750549	1.033296	3.008819
1	-2.003488	-4.536388	-1.273333	6	0.688725	-0.275804	3.495313
1	-0.881551	-4.810335	0.082420	6	1.931029	1.573276	2.497063
6	-3.277598	-4.239031	1.160866	6	1.841316	-1.062409	3.449649
1	-3.876982	-4.826366	0.446361	1	-0.248463	-0.679114	3.880249
1	-3.967112	-3.745902	1.864705	6	3.081444	0.780935	2.476293
1	-2.669952	-4.950879	1.742239	1	1.941487	2.593894	2.112836
6	2.896782	-3.279531	-0.594264	6	3.036373	-0.535971	2.945075
6	3.975994	-4.376488	-0.606633	1	1.802430	-2.094509	3.805005
1	4.611329	-4.346205	0.293329	1	4.012653	1.188772	2.078369
1	4.627950	-4.312348	-1.492369	1	3.935003	-1.156553	2.909694
1	3.488102	-5.363524	-0.629783	7	-1.964266	1.072003	2.742744
6	2.036998	-3.481436	0.675749	9	-0.578631	0.679795	0.594529

6 -2.988717 1.671572 1.927950
6 -4.272542 0.857758 1.967962
1 -2.567525 1.693728 0.903568
1 -3.163779 2.730027 2.205573
1 -5.032024 1.321863 1.320436
1 -4.095224 -0.165597 1.606291
1 -4.676247 0.803863 2.991633

Structure S86. Co^{IV}(salen)-F₂

27 0.000010 0.733755 0.000165
8 1.276383 -0.640308 0.297949
8 -1.276429 -0.640274 -0.297878
7 1.236857 2.110773 0.408477
7 -1.236810 2.110865 -0.408030
6 2.543757 -0.535657 0.180345
6 3.335759 -1.719740 -0.114411
6 4.715451 -1.596992 -0.093767
1 5.326711 -2.475240 -0.299435
6 5.398627 -0.378558 0.161801
6 4.636169 0.768062 0.360662
1 5.134486 1.729188 0.520009
6 3.231051 0.726709 0.346776
6 2.512283 1.966591 0.501831
1 3.130662 2.848939 0.708320
6 0.539550 3.386897 0.555032
1 0.001708 3.325136 1.517068
6 -0.539376 3.386889 -0.554738
1 -0.001533 3.324916 -1.516756
6 -1.399767 4.647846 -0.512902
1 -1.993064 4.646884 0.418473
1 -2.109556 4.651705 -1.355289
6 -0.518548 5.902075 -0.563047
1 -0.000566 5.944542 -1.537797
1 -1.153066 6.800876 -0.502103
6 0.518924 5.902078 0.563092
1 0.000946 5.944661 1.537840
1 1.153515 6.800822 0.502080
6 1.400046 4.647777 0.513042
1 2.109868 4.651658 1.355402
1 1.993302 4.646683 -0.418359
6 -2.512197 1.966711 -0.501827
1 -3.130496 2.849049 -0.708607
6 -3.231025 0.726842 -0.346811

6 -4.636109 0.768193 -0.360956
1 -5.134411 1.729305 -0.520417
6 -5.398622 -0.378439 -0.162185
6 -4.715529 -1.596870 0.093586
1 -5.326851 -2.475092 0.299180
6 -3.335849 -1.719638 0.114489
6 -2.543775 -0.535571 -0.180261
6 2.628785 -3.026900 -0.503915
6 1.784123 -2.760157 -1.776427
1 2.443341 -2.524676 -2.628418
1 1.090801 -1.918895 -1.646535
1 1.202207 -3.658486 -2.039583
6 1.730714 -3.523919 0.652609
1 0.940847 -2.803743 0.885922
1 2.329904 -3.692685 1.562946
1 1.259602 -4.481603 0.377779
6 3.631884 -4.147851 -0.829511
1 4.250241 -4.417628 0.041937
1 4.304130 -3.879613 -1.660008
1 3.081151 -5.052083 -1.133673
6 -2.628961 -3.026776 0.504195
6 -3.632165 -4.147610 0.829855
1 -4.250441 -4.417472 -0.041625
1 -4.304484 -3.879207 1.660239
1 -3.081525 -5.051837 1.134196
6 -1.730796 -3.523990 -0.652163
1 -0.940865 -2.803890 -0.885465
1 -2.329870 -3.692839 -1.562564
1 -1.259779 -4.481664 -0.377146
6 -1.784355 -2.759932 1.776734
1 -2.443582 -2.524230 2.628658
1 -1.090898 -1.918795 1.646767
1 -1.202597 -3.658315 2.040052
6 -6.916114 -0.333783 -0.179841
6 -7.510791 -0.708610 1.188852
6 -7.495256 -1.221406 -1.294695
1 -7.206662 0.708385 -0.396640
1 -7.123524 -0.055714 1.987339
1 -8.609248 -0.614767 1.173349
1 -7.270507 -1.750280 1.459230
1 -7.099754 -0.936333 -2.282703
1 -7.252185 -2.283999 -1.128295
1 -8.593792 -1.133401 -1.328493
6 6.916132 -0.333925 0.179113

6 7. 510484 -0. 708790 -1. 189701
6 7. 495529 -1. 221511 1. 293863
1 7. 206738 0. 708248 0. 395816
1 7. 123038 -0. 055905 -1. 988110
1 8. 608949 -0. 614975 -1. 174470
1 7. 270119 -1. 750461 -1. 460009
1 7. 100251 -0. 936394 2. 281949
1 7. 252409 -2. 284109 1. 127557
1 8. 594074 -1. 133517 1. 327409
9 -0. 578801 0. 754714 1. 746154
9 0. 578785 0. 755105 -1. 745874

Structure S87. [Co^{II}(salen)-F]⁻

27 0. 019706 0. 777266 0. 974132
8 1. 321307 -0. 590530 0. 289817
8 -1. 565232 -0. 457434 0. 956653
7 1. 531759 2. 166092 0. 347643
7 -1. 098073 2. 172799 -0. 075035
6 2. 576320 -0. 581988 -0. 005143
6 3. 280386 -1. 836763 -0. 199890
6 4. 631035 -1. 806693 -0. 533936
1 5. 158712 -2. 750524 -0. 677460
6 5. 379572 -0. 617269 -0. 702663
6 4. 707770 0. 581411 -0. 515887
1 5. 248937 1. 527459 -0. 637019
6 3. 338124 0. 634411 -0. 170290
6 2. 743274 1. 953677 -0. 009734
1 3. 423280 2. 798619 -0. 223372
6 0. 907573 3. 464001 0. 487085
1 0. 587106 3. 494728 1. 545051
6 -0. 398174 3. 435511 -0. 351996
1 -0. 099513 3. 440016 -1. 419545
6 -1. 224313 4. 698512 -0. 065691
1 -1. 539769 4. 668188 0. 992273
1 -2. 142702 4. 704061 -0. 673571
6 -0. 409703 5. 968487 -0. 340435
1 -0. 190484 6. 028529 -1. 422485
1 -1. 009851 6. 860066 -0. 091814
6 0. 909314 5. 978675 0. 440734
1 0. 688948 6. 037593 1. 521760
1 1. 497924 6. 876802 0. 188275
6 1. 732622 4. 712445 0. 171781
1 2. 650669 4. 720466 0. 781956

1 2. 049952 4. 690498 -0. 886851
6 -2. 258736 1. 945342 -0. 599215
1 -2. 710145 2. 720736 -1. 243456
6 -3. 072944 0. 758591 -0. 459192
6 -4. 318103 0. 765484 -1. 141090
1 -4. 585313 1. 657150 -1. 719954
6 -5. 192347 -0. 304186 -1. 098800
6 -4. 796646 -1. 434120 -0. 335909
1 -5. 487159 -2. 277883 -0. 304284
6 -3. 597725 -1. 523351 0. 357424
6 -2. 677202 -0. 396453 0. 319535
6 2. 515931 -3. 167137 -0. 035367
6 1. 371101 -3. 240048 -1. 073094
1 1. 776880 -3. 220153 -2. 098982
1 0. 682131 -2. 395176 -0. 954885
1 0. 801234 -4. 177591 -0. 954488
6 1. 937294 -3. 268789 1. 396061
1 1. 270798 -2. 425339 1. 613122
1 2. 749730 -3. 271572 2. 142544
1 1. 366418 -4. 205629 1. 515618
6 3. 421024 -4. 393166 -0. 256883
1 4. 254116 -4. 431997 0. 463714
1 3. 847727 -4. 419596 -1. 272806
1 2. 830945 -5. 315139 -0. 126303
6 -3. 216014 -2. 783205 1. 162191
6 -4. 296118 -3. 877467 1. 078968
1 -4. 464472 -4. 218586 0. 044420
1 -5. 262898 -3. 543058 1. 489288
1 -3. 977710 -4. 754968 1. 665272
6 -1. 900331 -3. 377238 0. 606517
1 -1. 081548 -2. 652962 0. 681815
1 -2. 017751 -3. 661442 -0. 452595
1 -1. 619117 -4. 284465 1. 168755
6 -3. 032168 -2. 419019 2. 654248
1 -3. 972442 -2. 029572 3. 080228
1 -2. 252612 -1. 656930 2. 779891
1 -2. 744796 -3. 312489 3. 235404
6 -6. 526444 -0. 282847 -1. 832162
6 -7. 718970 -0. 367167 -0. 864279
6 -6. 615627 -1. 382343 -2. 903882
1 -6. 592151 0. 689753 -2. 351475
1 -7. 686318 0. 442316 -0. 117135
1 -8. 677107 -0. 292297 -1. 406763
1 -7. 722851 -1. 324855 -0. 316539

1 -5.789903 -1.303000 -3.629504
 1 -6.565040 -2.387270 -2.451727
 1 -7.566331 -1.317639 -3.460470
 6 6.855319 -0.664664 -1.074534
 6 7.080777 -1.298325 -2.457662
 6 7.698231 -1.378040 -0.004597
 1 7.208154 0.380786 -1.128721
 1 6.513777 -0.765266 -3.238203
 1 8.148351 -1.278152 -2.736917
 1 6.754609 -2.352172 -2.471137
 1 7.574114 -0.904557 0.982870
 1 7.404971 -2.436864 0.095162
 1 8.771297 -1.355258 -0.261630
 9 0.208458 1.448036 2.745312

Structure S88. PhSO₂N⁺(Et)

16 -0.653826 -1.010360 -0.274943
 8 -1.139549 -0.950519 -1.645788
 8 -0.772402 -2.185765 0.568851
 6 0.924445 -0.242137 -0.098284
 6 1.363273 0.626834 -1.105725
 6 1.681347 -0.531186 1.045110
 6 2.610481 1.231002 -0.949298
 1 0.752563 0.814666 -1.990426
 6 2.923361 0.089772 1.179720
 1 1.315415 -1.228864 1.800453
 6 3.382880 0.965735 0.188649
 1 2.982996 1.907141 -1.721776
 1 3.536682 -0.117759 2.059169
 1 4.358374 1.444751 0.302065
 7 -1.724046 0.215295 0.589871
 6 -2.619853 0.918011 -0.006205
 6 -3.519232 1.863830 0.667420
 1 -2.697302 0.779454 -1.094522
 1 -1.595418 0.278632 1.608965
 1 -3.402974 2.850714 0.184590
 1 -4.558973 1.552324 0.459118
 1 -3.346434 1.936737 1.749534

Structure S89. ¹TS25

6 3.633071 -1.667574 -0.410357
 6 2.371114 -1.500278 0.364508

6 2.053576 -0.109805 0.844263
 6 2.919961 0.954655 0.435350
 6 4.040188 0.713527 -0.316124
 6 4.415577 -0.614755 -0.739647
 1 3.893322 -2.682407 -0.723617
 1 2.356380 -2.220789 1.203660
 1 2.674109 1.973582 0.743327
 1 4.679958 1.552666 -0.603869
 1 5.328746 -0.750119 -1.323161
 6 0.924030 0.173604 1.607504
 6 0.017368 -0.795209 2.074281
 1 0.700143 1.223332 1.809654
 1 0.352911 -1.826795 2.200555
 1 -0.764011 -0.475926 2.767006
 7 -1.295093 -1.386252 0.682913
 16 -1.405774 -0.571637 -0.885171
 6 -1.907362 -2.487248 0.923598
 8 -2.748114 -0.808436 -1.419996
 8 -0.213806 -0.986306 -1.629064
 6 -1.267252 1.133436 -0.405997
 6 -2.808062 -3.295827 0.057766
 1 -1.732881 -2.879498 1.939940
 1 1.532420 -1.831662 -0.281419
 6 -2.249357 1.680068 0.427103
 6 -0.216732 1.890645 -0.929388
 1 -2.796769 -4.338866 0.402848
 1 -3.838198 -2.913825 0.179464
 1 -2.558005 -3.234675 -1.008143
 6 -2.148187 3.028755 0.770477
 1 -3.072091 1.068453 0.803551
 6 -0.142400 3.243092 -0.588909
 1 0.531396 1.428245 -1.574181
 6 -1.098498 3.806310 0.263258
 1 -2.895943 3.477146 1.428460
 1 0.669852 3.855327 -0.987149
 1 -1.030148 4.863329 0.531782

Structure S90. 19

6 4.676755 -1.652226 -1.111182
 6 3.398444 -1.133950 -1.060391
 6 3.016178 -0.283177 0.029388
 6 3.978076 0.023756 1.049251
 6 5.255414 -0.502730 0.982752

6	5.601279	-1.336676	-0.093953	1	0.798237	5.061868	-0.969603
1	4.977872	-2.300280	-1.936388	1	-0.756848	6.474046	0.340455
1	2.682335	-1.370749	-1.848559	1	-2.091638	5.482839	2.210013
1	3.683747	0.674719	1.875981	6	1.272477	2.454571	-0.652739
1	5.990615	-0.273936	1.756197	6	1.541983	0.992142	-0.511865
1	6.612635	-1.748504	-0.147749	1	1.834163	2.962613	-1.443334
6	1.736925	0.251784	0.156902	1	0.939410	0.528339	0.285427
6	0.569539	0.014146	-0.734004	1	1.265050	0.484954	-1.448160
1	1.542916	0.885839	1.027462	7	2.978208	0.745718	-0.295722
1	0.875724	-0.064677	-1.790188	16	3.614283	-0.682880	-0.894754
1	0.193433	-1.001102	-0.486041	6	3.592627	1.280593	0.934272
7	-0.491484	0.994668	-0.628511	8	5.072895	-0.589004	-0.747840
16	-1.496602	0.891166	0.723792	8	3.006983	-0.909814	-2.211488
6	-0.354837	2.273289	-1.346076	6	3.033095	-1.972013	0.214754
8	-2.189426	2.177286	0.834250	6	4.624633	2.360673	0.639813
8	-0.690541	0.366690	1.840718	1	4.051423	0.461821	1.513280
6	-2.679303	-0.374037	0.276893	1	2.778517	1.678121	1.559866
6	0.662107	3.231996	-0.737539	6	3.891537	-2.462699	1.204728
1	-1.346521	2.743272	-1.379354	6	1.707519	-2.411307	0.109250
1	-0.085956	2.020703	-2.384884	1	5.073229	2.735186	1.574932
6	-3.771628	-0.016520	-0.522272	1	5.424050	1.950843	0.004859
6	-2.486071	-1.685195	0.723251	1	4.161897	3.210579	0.113218
1	0.697099	4.167211	-1.319508	6	3.406005	-3.408610	2.112280
1	0.387357	3.482676	0.298793	1	4.924024	-2.112859	1.250227
1	1.681805	2.809175	-0.739848	6	1.233542	-3.349502	1.029000
6	-4.681548	-1.007059	-0.893614	1	1.053669	-2.033168	-0.677104
1	-3.910408	1.019783	-0.835813	6	2.079567	-3.846153	2.027549
6	-3.405433	-2.666436	0.339384	1	4.067828	-3.804114	2.887008
1	-1.641814	-1.925807	1.371244	1	0.196348	-3.679397	0.955497
6	-4.496814	-2.328875	-0.467186	1	1.702511	-4.581793	2.742862
1	-5.543206	-0.745473	-1.512380	16	-1.968574	-1.383086	-0.108846
1	-3.271814	-3.695613	0.681113	8	-1.211661	-0.616565	0.891479
1	-5.214553	-3.098900	-0.760543	8	-1.615543	-2.773531	-0.396573

Structure S91. ²INT16

6	-1.262623	3.493907	1.935007
6	-0.391406	2.689944	1.208569
6	0.383244	3.228902	0.132222
6	0.219500	4.621738	-0.152586
6	-0.654037	5.412500	0.582364
6	-1.404988	4.858202	1.633182
1	-1.842323	3.054137	2.751787
1	-0.314661	1.630583	1.455286

1	0.798237	5.061868	-0.969603
1	-0.756848	6.474046	0.340455
1	-2.091638	5.482839	2.210013
6	1.272477	2.454571	-0.652739
6	1.541983	0.992142	-0.511865
1	1.834163	2.962613	-1.443334
1	0.939410	0.528339	0.285427
1	1.265050	0.484954	-1.448160
7	2.978208	0.745718	-0.295722
16	3.614283	-0.682880	-0.894754
6	3.592627	1.280593	0.934272
8	5.072895	-0.589004	-0.747840
8	3.006983	-0.909814	-2.211488
6	3.033095	-1.972013	0.214754
6	4.624633	2.360673	0.639813
1	4.051423	0.461821	1.513280
1	2.778517	1.678121	1.559866
6	3.891537	-2.462699	1.204728
6	1.707519	-2.411307	0.109250
1	5.073229	2.735186	1.574932
1	5.424050	1.950843	0.004859
1	4.161897	3.210579	0.113218
6	3.406005	-3.408610	2.112280
1	4.924024	-2.112859	1.250227
6	1.233542	-3.349502	1.029000
1	1.053669	-2.033168	-0.677104
6	2.079567	-3.846153	2.027549
1	4.067828	-3.804114	2.887008
1	0.196348	-3.679397	0.955497
1	1.702511	-4.581793	2.742862
16	-1.968574	-1.383086	-0.108846
8	-1.211661	-0.616565	0.891479
8	-1.615543	-2.773531	-0.396573
6	-3.711665	-1.236573	0.214836
6	-4.152557	-0.294726	1.150073
6	-4.590112	-2.075926	-0.479864
6	-5.524374	-0.192355	1.390876
1	-3.436285	0.342321	1.671624
6	-5.957662	-1.955565	-0.228850
1	-4.208806	-2.805673	-1.196166
6	-6.421120	-1.017774	0.702504
1	-5.893033	0.534366	2.118371
1	-6.663709	-2.598815	-0.759043
1	-7.493401	-0.931145	0.895161

7 -1.916527 -0.581093 -1.697466
 9 -0.588761 -0.861277 -2.143532
 6 -2.035838 0.879963 -1.627454
 6 -1.898817 1.506362 -3.006005
 1 -1.303868 1.298112 -0.920856
 1 -3.042532 1.060785 -1.218748
 1 -2.059115 2.592532 -2.925470
 1 -0.893271 1.339304 -3.418593
 1 -2.639707 1.091742 -3.707211

Structure S92. ²TS26

6 0.867072 3.912357 2.169176
 6 0.961602 2.798194 1.341400
 6 1.308654 2.940527 -0.030464
 6 1.545036 4.252813 -0.524458
 6 1.452406 5.360715 0.311312
 6 1.112573 5.197837 1.662777
 1 0.595461 3.783801 3.220235
 1 0.750111 1.807911 1.746825
 1 1.802824 4.381845 -1.578965
 1 1.642404 6.360609 -0.087390
 1 1.037138 6.068945 2.318564
 6 1.368159 1.831334 -0.929060
 6 1.426008 0.385702 -0.544016
 1 1.639027 2.045871 -1.967065
 1 0.932796 0.193279 0.420612
 1 0.868976 -0.173865 -1.303387
 7 2.813442 -0.100182 -0.540575
 16 3.067470 -1.647415 -1.138035
 6 3.721964 0.363010 0.524611
 8 4.521140 -1.857345 -1.152764
 8 2.278624 -1.775487 -2.367459
 6 2.357755 -2.750239 0.092139
 6 4.859816 1.214032 -0.021744
 1 4.122667 -0.502249 1.078385
 1 3.119912 0.935142 1.246576
 6 3.199397 -3.393473 1.005746
 6 0.964870 -2.887617 0.152531
 1 5.520823 1.550527 0.794111
 1 5.454864 0.628771 -0.738410
 1 4.467747 2.104528 -0.539012
 6 2.629490 -4.186938 2.006085
 1 4.281427 -3.279288 0.922226

6 0.411168 -3.675021 1.164298
 1 0.317855 -2.387540 -0.569016
 6 1.239203 -4.323203 2.088593
 1 3.275643 -4.700329 2.722653
 1 -0.675046 -3.776750 1.228154
 1 0.798520 -4.940103 2.876076
 16 -2.104367 -0.357181 -0.268459
 8 -1.471199 -0.333031 1.061538
 8 -1.478164 -1.106646 -1.363695
 6 -3.801045 -0.886568 -0.095722
 6 -4.376455 -0.932231 1.178033
 6 -4.512498 -1.236990 -1.249471
 6 -5.707853 -1.339592 1.294078
 1 -3.786855 -0.660851 2.055321
 6 -5.842510 -1.638118 -1.115505
 1 -4.029089 -1.199925 -2.227246
 6 -6.437542 -1.687887 0.151611
 1 -6.175361 -1.386730 2.280470
 1 -6.415840 -1.916019 -2.003073
 1 -7.479310 -2.003762 0.248923
 7 -2.380470 1.243593 -0.879857
 9 -0.758749 1.629755 -1.180827
 6 -2.711341 2.227361 0.139975
 6 -2.772826 3.621822 -0.466143
 1 -1.996487 2.183107 0.980015
 1 -3.703042 1.934357 0.535355
 1 -3.074656 4.350042 0.302673
 1 -1.785757 3.912392 -0.852945
 1 -3.500293 3.661252 -1.291936

Structure S93. ²INT17

6 1.826640 3.526125 2.250152
 6 1.355199 2.677682 1.246435
 6 2.071194 2.535743 0.044482
 6 3.256305 3.259783 -0.135658
 6 3.734210 4.102932 0.874390
 6 3.020033 4.237637 2.068138
 1 1.264155 3.631429 3.181760
 1 0.430695 2.113938 1.395665
 1 3.811055 3.161792 -1.072768
 1 4.663923 4.658098 0.724489
 1 3.390384 4.897504 2.857320
 6 1.556239 1.617211 -1.034363

6	1.354024	0.152673	-0.638778	1	-1.473262	2.969491	0.290173
1	2.204399	1.659155	-1.923529	1	-3.209319	3.291331	0.222062
1	0.768505	0.086340	0.291604	1	-1.948788	5.179880	-0.814434
1	0.740698	-0.277334	-1.437624	1	-1.178432	4.057764	-1.971136
7	2.604023	-0.599806	-0.543217	1	-2.938845	4.367168	-2.063012
16	2.546008	-2.162962	-1.171713	-----			
6	3.443523	-0.427398	0.662339	Structure S94. OTf			
8	3.908122	-2.704155	-1.085720	-----			
8	1.851565	-2.090085	-2.461306	16	0.922097	0.000193	0.000000
6	1.510793	-3.091700	-0.029821	8	1.244660	-0.722206	1.251375
6	4.872379	-0.022326	0.329093	8	1.244663	-0.723151	-1.250828
1	3.437372	-1.351592	1.266645	8	1.245876	1.444803	-0.000545
1	2.961043	0.340697	1.282160	6	-0.955040	0.000409	-0.000001
6	2.114188	-3.924222	0.918742	9	-1.440294	-1.251436	0.000455
6	0.122077	-2.911473	-0.070407	9	-1.441236	0.626051	1.083510
1	5.453300	0.124432	1.254594	9	-1.441237	0.625262	-1.083966
1	5.359408	-0.802247	-0.273058	-----			
1	4.889197	0.919849	-0.239648	Structure S95. ¹TS27			
6	1.306917	-4.584595	1.850123	-----			
1	3.197268	-4.055816	0.915466	6	4.022746	-0.527805	0.088086
6	-0.669385	-3.570264	0.872984	6	3.095193	-1.578149	0.070454
1	-0.342639	-2.262874	-0.813084	6	1.729367	-1.317532	-0.096634
6	-0.080460	-4.404410	1.830938	6	1.258875	-0.010794	-0.257166
1	1.765643	-5.242184	2.592829	6	2.193398	1.038913	-0.250418
1	-1.752797	-3.426480	0.855675	6	3.555901	0.801850	-0.082187
1	-0.706382	-4.918604	2.564888	1	3.427370	-2.608770	0.193348
16	-2.262255	0.410552	-0.319557	1	1.025249	-2.153379	-0.102654
8	-1.522772	0.606540	0.943465	1	1.876056	2.076723	-0.380040
8	-1.721459	-0.487953	-1.350781	8	4.412847	1.865348	-0.036068
6	-3.929242	-0.093475	0.071200	8	5.356883	-0.676009	0.267994
6	-4.412438	0.095208	1.370748	6	5.331135	1.992255	-1.120142
6	-4.713781	-0.659046	-0.942206	1	4.795080	2.079659	-2.082347
6	-5.720553	-0.299045	1.659646	1	5.902510	2.914383	-0.944768
1	-3.768861	0.531795	2.136307	1	6.025016	1.138388	-1.167984
6	-6.019733	-1.044414	-0.636498	6	5.893077	-1.977069	0.436094
1	-4.303100	-0.797929	-1.943902	1	5.699876	-2.613885	-0.444903
6	-6.520576	-0.864142	0.659187	1	6.976734	-1.852863	0.558608
1	-6.115206	-0.167516	2.669934	1	5.482976	-2.472055	1.333678
1	-6.648086	-1.490056	-1.411265	6	-0.222702	0.275920	-0.400302
1	-7.544155	-1.168570	0.891711	1	-0.394870	1.083059	-1.126901
7	-2.606597	1.873368	-1.125336	1	-0.763434	-0.613387	-0.745519
9	0.276828	2.074263	-1.426609	6	-0.779483	0.716690	0.935309
6	-2.315871	3.086405	-0.412239	1	-0.308610	1.638691	1.300245
6	-2.085731	4.243615	-1.377865	6	-0.964231	-0.314272	2.005902

1 0.038836 -0.674649 2.282380
 1 -1.432951 0.116955 2.900690
 1 -1.549336 -1.165663 1.633738
 16 -3.692660 -0.727673 -0.879989
 8 -5.133532 -1.014858 -0.941050
 8 -3.112070 0.037689 -1.986241
 8 -2.844227 -1.758260 -0.263436
 6 -3.789640 0.596923 0.511646
 9 -4.419639 1.683882 0.262529
 9 -3.959070 0.210918 1.724868
 9 -2.187841 1.320389 0.623581

Structure S96. CF₂SO₃

16 0.872151 -0.000040 0.013103
 8 0.836972 -0.000495 1.482331
 8 1.184808 -1.253981 -0.658425
 8 1.183765 1.254597 -0.657658
 6 -1.126365 -0.000255 -0.107021
 9 -1.824952 -1.047797 -0.049932
 9 -1.824002 1.047930 -0.049791

Structure S97. PF₆⁻

15 0.000000 0.000000 0.000000
 9 0.000000 0.000000 1.637608
 9 0.000000 1.637608 0.000000
 9 -1.637608 0.000000 0.000000
 9 0.000000 0.000000 -1.637608
 9 0.000000 -1.637608 0.000000
 9 1.637608 0.000000 0.000000

Structure S98. ¹TS28

6 4.019184 -0.440271 -0.074735
 6 3.203293 -1.496563 -0.514342
 6 1.827358 -1.315696 -0.658518
 6 1.237733 -0.071928 -0.391823
 6 2.054518 0.986106 0.051876
 6 3.426819 0.822697 0.206160
 1 3.637094 -2.469998 -0.740468
 1 1.210974 -2.152964 -0.993421
 1 1.632248 1.967563 0.278250
 8 4.169354 1.862841 0.677630

8 5.347236 -0.528541 0.121604
 6 5.109368 2.447459 -0.225375
 1 4.599897 2.830555 -1.127230
 1 5.575248 3.287589 0.307228
 1 5.887846 1.728456 -0.523643
 6 6.019148 -1.753955 -0.135820
 1 5.920533 -2.052725 -1.193226
 1 7.077535 -1.577653 0.092711
 1 5.638514 -2.563894 0.509091
 6 -0.272048 0.125287 -0.535414
 1 -0.524243 1.155774 -0.811712
 1 -0.719948 -0.579451 -1.244009
 6 -0.649218 -0.171872 0.853172
 1 -0.424259 0.608133 1.587619
 6 -0.873059 -1.528961 1.383677
 1 0.057652 -1.856011 1.880127
 1 -1.642889 -1.482487 2.167786
 1 -1.161819 -2.243536 0.605077
 15 -3.857386 0.126235 -0.123762
 9 -2.992495 -1.156255 -0.663062
 9 -2.539079 0.516780 0.913245
 9 -4.448636 -0.795671 1.075133
 9 -4.623216 1.422158 0.473865
 9 -5.091165 -0.239197 -1.099710
 9 -3.155952 1.054287 -1.264444

Structure S99. PF₅

15 -0.000318 -0.000558 0.000003
 9 -1.603006 -0.003228 -0.000692
 9 0.001620 -1.574386 0.077700
 9 1.603366 -0.000794 0.001760
 9 -0.002237 0.857485 1.321166
 9 0.000786 0.721853 -1.399940

Structure S100. Co^{II}(salen)(diox)₂

8 -0.539386 -1.458814 -0.338894
 8 1.501585 0.193033 0.198013
 7 -2.194858 0.731844 -0.648594
 7 -0.259741 2.323746 0.114635
 6 -1.603143 -2.179002 -0.461647
 6 -1.526170 -3.615714 -0.280030
 6 -2.676751 -4.367877 -0.487850

1	-2.636991	-5.450633	-0.364917	1	-1.067292	-6.059000	1.095021
6	-3.919393	-3.802777	-0.850946	1	0.645134	-6.202100	0.653127
6	-4.016494	-2.434699	-0.988528	6	4.153316	-0.863485	0.575285
1	-4.972806	-1.970536	-1.250605	6	5.658050	-1.109005	0.786355
6	-2.887155	-1.603034	-0.784299	1	6.023015	-0.683771	1.735302
6	-3.077845	-0.180194	-0.903052	1	6.267067	-0.694334	-0.033000
1	-4.079791	0.128313	-1.231165	1	5.851609	-2.193225	0.818506
6	-2.450485	2.160712	-0.869348	6	3.398371	-1.526005	1.750713
1	-2.016193	2.395797	-1.858530	1	2.314624	-1.441936	1.614695
6	-1.602688	2.912933	0.173851	1	3.672792	-1.055075	2.709424
1	-2.006549	2.634352	1.165637	1	3.655157	-2.596593	1.815485
6	-1.707985	4.429078	0.002895	6	3.745304	-1.552573	-0.745258
1	-1.244191	4.717124	-0.957574	1	4.291694	-1.128559	-1.603070
1	-1.149620	4.946224	0.798927	1	2.671717	-1.437236	-0.922056
6	-3.174323	4.878164	0.030802	1	3.972766	-2.630482	-0.701900
1	-3.593064	4.686127	1.035269	1	5.335771	3.719115	0.766872
1	-3.234323	5.966857	-0.129747	1	-4.787811	-4.446585	-1.007533
6	-4.010280	4.136099	-1.014702	27	-0.367072	0.441141	-0.166561
1	-3.655456	4.408916	-2.025029	6	-1.905769	-0.608549	2.557677
1	-5.065155	4.450403	-0.958592	6	-2.412607	-0.175844	3.923910
6	-3.910995	2.615568	-0.841576	6	-0.349260	0.827178	4.385945
1	-4.485528	2.117902	-1.638100	6	0.173417	0.404648	3.022815
1	-4.363939	2.313560	0.119832	1	-2.943312	0.795448	3.827309
6	0.818223	3.010472	0.318236	1	-3.123545	-0.917164	4.322026
1	0.736335	4.096119	0.464191	1	-1.479931	-1.625734	2.610203
6	2.158998	2.487824	0.391891	1	-2.712146	-0.607554	1.812863
6	3.213431	3.423191	0.540744	1	-0.755098	1.859120	4.319230
1	2.971870	4.490851	0.559825	1	0.465772	0.826335	5.126927
6	4.519805	3.000919	0.659390	1	0.877432	1.142006	2.616379
6	4.793017	1.615413	0.658273	1	0.690422	-0.569108	3.093836
1	5.834052	1.312438	0.773160	8	-0.911634	0.306771	2.100802
6	3.810573	0.640122	0.526791	8	-1.347225	-0.066224	4.851551
6	2.434395	1.070085	0.358394	6	-0.303210	-0.299445	-3.362701
6	-0.195919	-4.264753	0.151712	6	0.976364	-1.105971	-3.494402
6	0.253834	-3.668845	1.506340	6	2.255450	0.833859	-3.225381
1	-0.475908	-3.904955	2.298579	6	0.986881	1.657465	-3.073407
1	0.363503	-2.580130	1.438366	1	1.253686	-1.488403	-2.497322
1	1.225013	-4.093605	1.809667	1	0.827001	-1.963120	-4.169547
6	0.893095	-4.002604	-0.911448	1	-0.662695	0.017148	-4.361821
1	1.079032	-2.929719	-1.015022	1	-1.089210	-0.883882	-2.867085
1	0.590898	-4.403972	-1.893030	1	2.610435	0.534932	-2.224905
1	1.838434	-4.491264	-0.622407	1	3.044612	1.429632	-3.710469
6	-0.323085	-5.788140	0.328740	1	1.137985	2.485742	-2.367074
1	-0.596299	-6.295747	-0.610525	1	0.682649	2.074415	-4.054131

8	-0.072648	0.855562	-2.555961	6	-1.321747	-3.723774	-0.297673
8	2.022524	-0.309784	-4.033981	6	-0.261073	-2.754614	-0.140782

Structure S101. (diox)Co^{III}(salen)-F							

27	0.511041	-0.015132	-0.347697	6	-3.733435	2.041481	0.060310
8	-1.081476	1.030694	-0.345433	6	-3.390793	1.459834	1.451877
8	-0.559784	-1.516066	0.085096	1	-3.189310	2.266609	2.176568
7	1.612283	1.457928	-0.880088	1	-2.515069	0.802845	1.399908
7	2.128151	-1.015893	-0.190895	1	-4.238199	0.868827	1.836865
6	-1.248323	2.273557	-0.648290	6	-4.029138	0.888700	-0.922919
6	-2.555379	2.877830	-0.478531	1	-3.152732	0.245215	-1.045253
6	-2.708302	4.212370	-0.834980	1	-4.312712	1.281900	-1.912999
1	-3.685182	4.683590	-0.724996	1	-4.864239	0.271757	-0.551579
6	-1.660104	5.010904	-1.344908	6	-5.016329	2.878408	0.212654
6	-0.408539	4.456148	-1.487051	1	-5.365101	3.287051	-0.749140
1	0.424599	5.053116	-1.870550	1	-4.888344	3.716493	0.917298
6	-0.172712	3.103715	-1.129679	1	-5.824477	2.241121	0.605766
6	1.168728	2.612551	-1.258506	6	-2.773395	-3.241575	-0.473615
1	1.881710	3.319965	-1.703711	6	-3.757738	-4.414365	-0.632820
6	2.976455	0.998779	-1.170657	1	-3.785259	-5.059434	0.260982
1	2.936439	0.519352	-2.165676	1	-3.523909	-5.044711	-1.505407
6	3.279727	-0.115958	-0.152861	1	-4.775302	-4.019377	-0.782766
1	3.264828	0.356630	0.846953	6	-3.242899	-2.405991	0.739512
6	4.654810	-0.739330	-0.387068	1	-2.645593	-1.495458	0.849697
1	4.657207	-1.255958	-1.362942	1	-3.163160	-2.992622	1.670772
1	4.867494	-1.498105	0.382522	1	-4.299709	-2.116874	0.616029
6	5.742581	0.341848	-0.367890	6	-2.827170	-2.395860	-1.769755
1	5.802776	0.779376	0.645024	1	-2.593584	-3.025674	-2.643870
1	6.724588	-0.115215	-0.569941	1	-2.103742	-1.569835	-1.749457
6	5.449509	1.449669	-1.383035	1	-3.835962	-1.976968	-1.916938
1	5.494980	1.029406	-2.403589	9	0.384313	-0.448197	-2.088798
1	6.222964	2.233155	-1.332195	1	-1.849068	6.051842	-1.615933
6	4.066071	2.073659	-1.160026	1	0.575112	-6.595191	-0.419565
1	3.874656	2.825444	-1.940749	6	1.067918	1.988970	3.475560
1	4.037222	2.600474	-0.189290	6	0.401717	1.738631	2.134601
6	2.206360	-2.304689	-0.186935	6	0.422061	-0.595913	2.602335
1	3.201586	-2.768283	-0.163308	6	1.083297	-0.292177	3.934979
6	1.099751	-3.218234	-0.204127	1	-0.693341	1.794986	2.222017
6	1.385630	-4.603528	-0.294937	1	0.738754	2.464316	1.387274
1	2.430471	-4.928122	-0.322769	1	2.169290	2.035367	3.341334
6	0.363551	-5.525537	-0.355727	1	0.730703	2.957311	3.877124
6	-0.972571	-5.067536	-0.375085	1	-0.674820	-0.640198	2.697400
1	-1.757548	-5.817824	-0.475729	1	0.776714	-1.547538	2.192338
				1	0.759196	-1.032881	4.682414
				1	2.185639	-0.370991	3.826463
				8	0.725343	0.989477	4.415052

8 0.766960 0.431563 1.650744

**Optimized geometries calculated by
M06 functional.**

Structure S102. Co^{II}(salen)

27 -0.000010 0.896016 -0.000104
8 -1.289624 -0.458411 0.116772
8 1.289623 -0.458402 -0.116890
7 -1.263420 2.268346 -0.190468
7 1.263376 2.268376 0.190198
6 -2.575056 -0.381509 0.058164
6 -3.375438 -1.574617 0.182492
6 -4.752161 -1.449029 0.103550
1 -5.363767 -2.352449 0.191678
6 -5.435869 -0.224383 -0.085763
6 -4.668609 0.911739 -0.195020
1 -5.150750 1.887439 -0.338829
6 -3.255719 0.862178 -0.126833
6 -2.547169 2.098065 -0.240384
1 -3.188707 2.981179 -0.389063
6 2.547117 2.098089 0.240327
1 3.188636 2.981209 0.389045
6 3.255681 0.862198 0.126930
6 4.668562 0.911768 0.195306
1 5.150676 1.887470 0.339191
6 5.435846 -0.224344 0.086123
6 4.752173 -1.448990 -0.103319
1 5.363801 -2.352400 -0.191395
6 3.375462 -1.574592 -0.182437
6 2.575049 -0.381494 -0.058161
6 -2.702736 -2.931873 0.402283
6 -1.943118 -2.918174 1.734131
1 -2.638951 -2.754220 2.575394
1 -1.180010 -2.127476 1.752512
1 -1.438620 -3.887088 1.896961
6 -1.740193 -3.240458 -0.751153
1 -0.920194 -2.509536 -0.799379
1 -2.276442 -3.234465 -1.716464
1 -1.302224 -4.245953 -0.618767
6 -3.719515 -4.069757 0.465625
1 -4.294248 -4.167341 -0.471348
1 -4.434485 -3.948115 1.296998

1 -3.189732 -5.023293 0.627455
6 2.702815 -2.931858 -0.402352
6 3.719629 -4.069712 -0.465649
1 4.294150 -4.167441 0.471438
1 4.434786 -3.947913 -1.296839
1 3.189903 -5.023232 -0.627755
6 1.740177 -3.240528 0.750978
1 0.920191 -2.509595 0.799197
1 2.276348 -3.234625 1.716334
1 1.302204 -4.246005 0.618472
6 1.943320 -2.918126 -1.734270
1 2.639221 -2.754088 -2.575460
1 1.180173 -2.127467 -1.752677
1 1.438893 -3.887060 -1.897201
6 0.652936 3.600357 0.427073
6 -0.652980 3.600285 -0.427560
6 1.580348 4.747443 0.047078
1 1.033857 5.702195 0.050565
1 2.396496 4.858729 0.777623
1 2.029303 4.613119 -0.948937
6 0.334336 3.689554 1.919737
1 1.252645 3.511247 2.501875
1 -0.042158 4.688871 2.187904
1 -0.413276 2.939663 2.223621
6 -1.580384 4.747443 -0.047774
1 -2.029311 4.613331 0.948282
1 -1.033894 5.702194 -0.051475
1 -2.396554 4.858572 -0.778320
6 -0.334378 3.689215 -1.920241
1 -1.252686 3.510800 -2.502346
1 0.042117 4.688486 -2.188585
1 0.413238 2.939272 -2.223988
6 6.944909 -0.183786 0.165054
6 7.594926 -0.674534 -1.124140
6 7.469472 -0.959811 1.368596
1 7.226006 0.878662 0.300911
1 7.242924 -0.101905 -1.997497
1 8.692904 -0.583126 -1.075269
1 7.363724 -1.738401 -1.308530
1 7.028133 -0.592568 2.309285
1 7.229534 -2.034451 1.285872
1 8.566145 -0.875062 1.449209
6 -6.944944 -0.183830 -0.164471
6 -7.594762 -0.674553 1.124834

6 -7.469696 -0.959875 -1.367917
 1 -7.226063 0.878616 -0.300304
 1 -7.242633 -0.101899 1.998123
 1 -8.692749 -0.583157 1.076128
 1 -7.363519 -1.738413 1.309214
 1 -7.028495 -0.592658 -2.308681
 1 -7.229762 -2.034517 -1.285208
 1 -8.566380 -0.875115 -1.448367

Structure S103. [Me₃NFPy]⁺

6 0.375158 -1.216215 -0.001768
 6 -1.008347 -1.203158 -0.010857
 6 -1.726896 -0.000448 -0.012455
 6 -1.008816 1.202600 -0.010841
 6 0.374624 1.216285 -0.001743
 1 -1.528786 -2.163950 -0.018967
 1 -1.529738 2.163128 -0.018966
 6 -3.212744 -0.000389 0.008970
 1 -3.564200 0.006021 1.055002
 1 -3.624003 0.894513 -0.477820
 1 -3.624372 -0.900577 -0.467509
 6 1.230480 2.423981 -0.000383
 1 1.886258 2.438171 -0.884623
 1 0.603627 3.322540 -0.003392
 1 1.880846 2.440131 0.887731
 6 1.231483 -2.423572 -0.000372
 1 1.887501 -2.437397 -0.884436
 1 1.881625 -2.439565 0.887915
 1 0.604975 -3.322370 -0.003634
 7 0.971885 0.000139 0.003631
 9 2.310380 0.000431 0.008886

Structure S104. ²TS1

27 0.249146 1.210968 -0.451598
 8 -0.977155 0.095339 -1.321182
 8 1.523871 -0.075167 -0.851113
 7 -0.974815 2.631213 -0.274103
 7 1.465719 2.337953 0.433266
 6 -2.261217 0.165212 -1.262043
 6 -3.056438 -1.015540 -1.481301
 6 -4.433643 -0.874644 -1.508438
 1 -5.045075 -1.766093 -1.679703

6 -5.118756 0.349636 -1.311524
 6 -4.356870 1.461731 -1.039927
 1 -4.841652 2.425723 -0.840915
 6 -2.943954 1.389400 -0.978024
 6 -2.234209 2.558835 -0.580582
 1 -2.845868 3.471703 -0.501712
 6 2.730297 2.097082 0.572601
 1 3.340042 2.816634 1.140517
 6 3.456027 0.978653 0.055772
 6 4.849627 0.934880 0.290250
 1 5.310651 1.746520 0.866651
 6 5.624456 -0.095810 -0.191361
 6 4.972878 -1.098759 -0.945264
 1 5.594367 -1.906731 -1.342752
 6 3.612957 -1.120620 -1.213550
 6 2.808945 -0.058153 -0.677609
 6 -2.376664 -2.381833 -1.598656
 6 -1.614062 -2.664574 -0.295646
 1 -2.314377 -2.714577 0.559781
 1 -0.862461 -1.884138 -0.097988
 1 -1.094513 -3.637133 -0.356819
 6 -1.412687 -2.414486 -2.790068
 1 -0.597575 -1.686742 -2.670932
 1 -1.949114 -2.193449 -3.729069
 1 -0.966667 -3.420263 -2.887100
 6 -3.389921 -3.507042 -1.791103
 1 -3.967519 -3.390350 -2.723680
 1 -4.101720 -3.578265 -0.951179
 1 -2.857908 -4.470728 -1.852150
 6 2.976531 -2.220453 -2.067994
 6 4.013835 -3.228440 -2.557752
 1 4.507887 -3.756966 -1.724745
 1 4.794339 -2.757040 -3.178467
 1 3.516099 -3.990234 -3.179987
 6 1.930418 -2.992104 -1.256092
 1 1.086406 -2.347066 -0.972614
 1 2.378511 -3.420319 -0.341586
 1 1.527944 -3.828347 -1.854768
 6 2.317364 -1.595141 -3.303896
 1 3.066663 -1.069538 -3.920661
 1 1.529065 -0.880716 -3.024134
 1 1.859997 -2.383047 -3.927864
 6 0.829246 3.528913 1.058539
 6 -0.326151 3.918974 0.083224

7	-1.214663	2.198138	-0.468163	6	1.918220	-2.701070	-2.039910
7	1.235968	2.240628	0.300558	1	2.596712	-2.404935	-2.859012
6	-2.541988	-0.422522	-0.126229	1	1.123368	-1.946053	-1.951596
6	-3.336466	-1.594881	0.127178	1	1.452194	-3.662057	-2.321030
6	-4.713539	-1.457022	0.122180	6	0.583578	3.573986	0.349716
1	-5.324882	-2.344886	0.312316	6	-0.538027	3.488217	-0.739912
6	-5.397771	-0.236861	-0.100982	6	1.561468	4.705312	0.069998
6	-4.632336	0.885661	-0.310642	1	1.019903	5.658735	-0.014889
1	-5.114322	1.857623	-0.473945	1	2.270341	4.826198	0.903861
6	-3.217773	0.823438	-0.313167	1	2.139119	4.556300	-0.855024
6	-2.497508	2.030939	-0.544081	6	-0.002152	3.751956	1.749630
1	-3.122535	2.900729	-0.801406	1	0.808864	3.664243	2.490201
6	2.513400	2.073372	0.365202	1	-0.451226	4.750749	1.860983
1	3.146208	2.963636	0.503889	1	-0.742181	2.974485	1.984019
6	3.233201	0.842687	0.236142	6	-1.491754	4.670660	-0.675645
6	4.636161	0.877307	0.398102	1	-2.074254	4.693645	0.257900
1	5.110017	1.827684	0.673574	1	-0.933288	5.614741	-0.755087
6	5.405045	-0.251042	0.217810	1	-2.195548	4.654984	-1.522461
6	4.735020	-1.438794	-0.152784	6	0.053147	3.392546	-2.145865
1	5.347634	-2.333751	-0.299469	1	-0.750877	3.168180	-2.864496
6	3.364434	-1.541356	-0.339155	1	0.517811	4.342871	-2.449946
6	2.572004	-0.364003	-0.129468	1	0.806042	2.591289	-2.221070
6	-2.648533	-2.927681	0.425877	6	6.905147	-0.232565	0.402710
6	-1.790382	-2.774152	1.689608	6	7.640353	-0.581532	-0.886710
1	-2.432776	-2.572053	2.564290	6	7.343304	-1.142570	1.545272
1	-1.067509	-1.949325	1.601878	1	7.176865	0.805432	0.675509
1	-1.235930	-3.708360	1.888647	1	7.347976	0.086724	-1.712769
6	-1.783613	-3.364514	-0.763088	1	8.731988	-0.502157	-0.752996
1	-0.971256	-2.650925	-0.960909	1	7.424944	-1.617095	-1.203216
1	-2.398125	-3.460833	-1.675449	1	6.836814	-0.880104	2.488066
1	-1.331489	-4.351268	-0.557949	1	7.111708	-2.199529	1.325703
6	-3.659457	-4.041766	0.687435	1	8.431327	-1.073933	1.710805
1	-4.298037	-4.239832	-0.190574	6	-6.908221	-0.185568	-0.091791
1	-4.313950	-3.820175	1.547397	6	-7.480386	-0.579672	1.265665
1	-3.120417	-4.975415	0.918989	6	-7.508282	-1.037002	-1.205556
6	2.692252	-2.861232	-0.724988	1	-7.189635	0.867895	-0.283358
6	3.713542	-3.978500	-0.925433	1	-7.070817	0.047025	2.074225
1	4.283381	-4.194086	-0.005722	1	-8.578321	-0.477997	1.276596
1	4.432271	-3.747208	-1.730158	1	-7.247457	-1.631271	1.508484
1	3.188828	-4.905710	-1.209247	1	-7.121635	-0.740771	-2.194061
6	1.738337	-3.296315	0.394193	1	-7.273165	-2.106283	-1.062459
1	0.930663	-2.565274	0.548073	1	-8.606884	-0.944383	-1.226354
1	2.285067	-3.422387	1.344897	9	-0.364467	0.715956	1.964789
1	1.275713	-4.266900	0.140716				

Structure S107. [Me₃MPy]⁺

6 0.705408 -1.213092 0.001142
6 -0.695182 -1.208752 -0.008732
6 -1.406664 -0.001985 -0.011133
6 -0.698439 1.206729 -0.008542
6 0.702083 1.214930 0.001378
1 -1.206024 -2.176767 -0.017752
1 -1.212042 2.173278 -0.017105
6 -2.896759 -0.003665 0.005018
1 -3.254108 -0.000157 1.048484
1 -3.306310 0.890543 -0.484255
1 -3.304545 -0.902046 -0.477962
6 1.561361 2.429329 -0.000474
1 2.208672 2.438375 -0.889776
1 0.934628 3.328371 -0.001162
1 2.210326 2.439882 0.887480
6 1.567945 -2.425191 -0.000661
1 2.221715 -2.428464 -0.885211
1 2.210448 -2.438204 0.892001
1 0.943503 -3.325787 -0.009647
7 1.216460 0.001594 0.012417

Structure S108. [Co^{IV}(salen)-F]⁺

27 0.018844 0.824622 -0.081091
8 1.268746 -0.580513 0.282279
8 -1.286980 -0.395789 0.325717
7 1.239984 2.191674 0.571376
7 -1.186757 2.243330 -0.287657
6 2.519298 -0.493003 0.202751
6 3.305550 -1.704030 -0.030385
6 4.685089 -1.585602 -0.038146
1 5.290244 -2.477302 -0.210290
6 5.357495 -0.364827 0.151625
6 4.587915 0.807047 0.347606
1 5.106457 1.760326 0.501915
6 3.210613 0.776334 0.360441
6 2.509129 2.022123 0.599314
1 3.164348 2.880460 0.815741
6 -2.467143 2.090745 -0.385545
1 -3.075903 2.991780 -0.550364
6 -3.208000 0.877138 -0.266213
6 -4.604754 0.925898 -0.469155

1 -5.062372 1.877510 -0.763613
6 -5.384409 -0.197377 -0.303524
6 -4.734727 -1.389085 0.089636
1 -5.358769 -2.277843 0.221829
6 -3.370568 -1.505633 0.314881
6 -2.572480 -0.333621 0.125651
6 2.596143 -3.017131 -0.317800
6 1.761051 -2.852008 -1.599475
1 2.416970 -2.650096 -2.462974
1 1.029089 -2.033984 -1.528725
1 1.216868 -3.789683 -1.802538
6 1.706061 -3.417405 0.869460
1 0.872955 -2.719192 1.027567
1 2.297636 -3.481406 1.798450
1 1.278493 -4.415881 0.677010
6 3.591802 -4.150351 -0.552756
1 4.215341 -4.347856 0.335245
1 4.255418 -3.954634 -1.411040
1 3.036391 -5.074810 -0.775781
6 -2.722386 -2.832111 0.716625
6 -3.761345 -3.937008 0.893564
1 -4.311931 -4.146582 -0.038796
1 -4.494283 -3.697631 1.682565
1 -3.253250 -4.869612 1.188403
6 -1.754164 -3.275927 -0.386247
1 -0.943547 -2.547728 -0.536979
1 -2.287028 -3.406195 -1.343711
1 -1.296888 -4.245356 -0.120688
6 -1.976381 -2.682869 2.048813
1 -2.669287 -2.380306 2.852799
1 -1.168676 -1.938732 1.987700
1 -1.529899 -3.650413 2.337452
6 -0.512055 3.573396 -0.319723
6 0.562204 3.488138 0.818296
6 -1.491512 4.711678 -0.079182
1 -0.942751 5.659420 0.018691
1 -2.166502 4.834746 -0.939897
1 -2.101637 4.573110 0.825921
6 0.127830 3.743629 -1.695577
1 -0.652828 3.650540 -2.466813
1 0.575123 4.744133 -1.792705
1 0.882635 2.972480 -1.901552
6 1.526579 4.659979 0.801707
1 2.124964 4.707941 -0.120667

1 0.973012 5.604655 0.899213
 1 2.212291 4.613813 1.662333
 6 -0.082364 3.373730 2.199211
 1 0.693311 3.152318 2.948277
 1 -0.561079 4.321909 2.485023
 1 -0.835483 2.570820 2.242028
 6 -6.877004 -0.172503 -0.535435
 6 -7.652706 -0.550432 0.721399
 6 -7.271948 -1.058452 -1.712332
 1 -7.139239 0.870946 -0.794591
 1 -7.384656 0.095055 1.573232
 1 -8.738255 -0.460341 0.553075
 1 -7.455012 -1.595394 1.017309
 1 -6.737020 -0.771965 -2.631984
 1 -7.042747 -2.118994 -1.508767
 1 -8.354106 -0.989280 -1.910421
 6 6.851236 -0.245812 0.080802
 6 7.237946 0.260722 -1.314004
 6 7.600486 -1.521241 0.424015
 1 7.134779 0.539622 0.808425
 1 6.750817 1.217622 -1.559042
 1 8.327920 0.406363 -1.373212
 1 6.947327 -0.475246 -2.082647
 1 7.285825 -1.939856 1.392988
 1 7.460074 -2.296800 -0.347693
 1 8.680514 -1.316788 0.477509
 9 0.538216 0.708908 -1.841951

Structure S109. Me₃MPy

6 0.702809 -1.151447 0.000777
 6 -0.694030 -1.192345 -0.009534
 6 -1.422452 -0.000923 -0.011461
 6 -0.695463 1.191428 -0.009402
 6 0.701379 1.152237 0.000889
 1 -1.213908 -2.156777 -0.018715
 1 -1.216527 2.155227 -0.018500
 6 -2.917338 -0.001594 0.008399
 1 -3.290542 0.004478 1.046703
 1 -3.329094 0.889778 -0.488281
 1 -3.328360 -0.898939 -0.477953
 6 1.514413 2.409244 0.001784
 1 2.168298 2.442336 -0.884647
 1 0.886511 3.311552 0.008209

1 2.177237 2.434805 0.881634
 6 1.517326 -2.407493 0.001852
 1 2.173381 -2.438560 -0.883027
 1 2.178051 -2.433529 0.883282
 1 0.890468 -3.310542 0.005643
 7 1.380661 0.000791 0.006547

Structure S110. [Co^{III}(salen)]⁺

27 0.000013 0.916161 0.000005
 8 -1.273729 -0.423541 0.029060
 8 1.273744 -0.423554 -0.029058
 7 -1.263682 2.275855 -0.193747
 7 1.263719 2.275846 0.193754
 6 -2.559014 -0.369670 0.023560
 6 -3.330159 -1.575099 0.198510
 6 -4.706033 -1.465120 0.121296
 1 -5.308364 -2.370151 0.240072
 6 -5.403198 -0.250929 -0.098958
 6 -4.659406 0.903450 -0.227292
 1 -5.159352 1.866881 -0.379531
 6 -3.252501 0.871719 -0.160521
 6 -2.547290 2.104095 -0.277596
 1 -3.179835 2.986311 -0.455292
 6 2.547325 2.104077 0.277601
 1 3.179877 2.986289 0.455294
 6 3.252527 0.871696 0.160520
 6 4.659434 0.903415 0.227280
 1 5.159389 1.866842 0.379515
 6 5.403213 -0.250970 0.098937
 6 4.706035 -1.465155 -0.121312
 1 5.308356 -2.370190 -0.240088
 6 3.330157 -1.575120 -0.198513
 6 2.559030 -0.369686 -0.023557
 6 -2.636618 -2.908036 0.475755
 6 -1.838135 -2.801355 1.781846
 1 -2.508391 -2.575767 2.628947
 1 -1.066355 -2.019179 1.730749
 1 -1.337234 -3.761237 1.995838
 6 -1.711553 -3.276274 -0.690058
 1 -0.901214 -2.544926 -0.817809
 1 -2.280119 -3.341365 -1.633702
 1 -1.252973 -4.263547 -0.506180
 6 -3.643217 -4.043794 0.642744

1 -4.239954 -4.209738 -0.269973
 1 -4.335442 -3.869710 1.483555
 1 -3.100992 -4.979694 0.853711
 6 2.636561 -2.908034 -0.475740
 6 3.643077 -4.043856 -0.642811
 1 4.239874 -4.209846 0.269858
 1 4.335248 -3.869816 -1.483676
 1 3.100775 -4.979721 -0.853739
 6 1.711541 -3.276230 0.690118
 1 0.901272 -2.544816 0.817946
 1 2.280166 -3.341397 1.633721
 1 1.252864 -4.263458 0.506239
 6 1.837997 -2.801282 -1.781775
 1 2.508213 -2.575733 -2.628917
 1 1.066279 -2.019047 -1.730619
 1 1.337008 -3.761123 -1.995744
 6 0.646130 3.610106 0.435497
 6 -0.646083 3.610112 -0.435483
 6 1.582396 4.752076 0.067437
 1 1.036050 5.706300 0.067487
 1 2.387798 4.862237 0.809276
 1 2.040436 4.619258 -0.924223
 6 0.314550 3.686066 1.926096
 1 1.228318 3.512874 2.516120
 1 -0.068061 4.683141 2.191395
 1 -0.433051 2.933597 2.225754
 6 -1.582340 4.752090 -0.067424
 1 -2.040386 4.619275 0.924233
 1 -1.035984 5.706310 -0.067469
 1 -2.387737 4.862261 -0.809267
 6 -0.314498 3.686074 -1.926080
 1 -1.228265 3.512893 -2.516108
 1 0.068124 4.683147 -2.191373
 1 0.433098 2.933600 -2.225737
 6 6.909296 -0.237357 0.184404
 6 7.552577 -0.742427 -1.102753
 6 7.401768 -1.027534 1.393047
 1 7.209920 0.818212 0.323617
 1 7.213753 -0.167021 -1.979062
 1 8.650199 -0.662628 -1.045416
 1 7.311792 -1.804236 -1.283859
 1 6.958837 -0.653412 2.329861
 1 7.145415 -2.097408 1.304075
 1 8.498134 -0.959597 1.482312

6 -6.909279 -0.237301 -0.184436
 6 -7.552576 -0.742365 1.102715
 6 -7.401752 -1.027470 -1.393084
 1 -7.209892 0.818272 -0.323650
 1 -7.213752 -0.166962 1.979028
 1 -8.650197 -0.662554 1.045370
 1 -7.311803 -1.804177 1.283823
 1 -6.958808 -0.653353 -2.329894
 1 -7.145414 -2.097348 -1.304111
 1 -8.498117 -0.959519 -1.482358

Structure S111. HF

9 0.000000 0.000000 0.092128
 1 0.000000 0.000000 -0.829150

Structure S112. ¹INT2

6 -0.195418 1.162773 0.048096
 6 1.197499 1.194697 0.005752
 6 1.921857 -0.000003 -0.018727
 6 1.197477 -1.194699 0.005754
 6 -0.195432 -1.162755 0.048093
 1 1.717882 2.158084 -0.012211
 1 1.717848 -2.158092 -0.012205
 6 3.413100 -0.000039 -0.101088
 1 3.845144 -0.894558 0.371376
 1 3.739157 -0.000647 -1.155147
 1 3.845155 0.894992 0.370387
 6 -1.017075 -2.409863 0.095799
 1 -1.999663 -2.235491 -0.365385
 1 -0.515563 -3.249926 -0.405530
 1 -1.198513 -2.710374 1.141881
 6 -1.017024 2.409906 0.095794
 1 -1.999717 2.235483 -0.365143
 1 -1.198205 2.710593 1.141870
 1 -0.515604 3.249877 -0.405783
 7 -0.861321 0.000018 0.066044
 1 -2.462480 0.000008 -0.055320
 9 -3.419567 -0.000019 -0.198660

Structure S113. R₃Si⁺

8 0.104659 -0.731652 0.343662

14	1.457735	-0.114852	-0.421497	8	-2.272169	-0.253633	0.805343
14	-1.549552	-0.543217	0.211299	14	-1.137078	0.983065	0.938504
1	-2.160533	-1.833099	0.645267	14	-3.068410	-0.985445	-0.459481
6	1.397047	1.766961	-0.350933	1	-2.183726	-1.980470	-1.142292
1	2.303859	2.204409	-0.799028	6	-1.894554	2.622123	0.398917
1	0.524394	2.175343	-0.886438	1	-1.279303	3.464389	0.760210
1	1.339194	2.096192	0.702987	1	-1.971459	2.691407	-0.696567
6	2.956617	-0.758067	0.506162	1	-2.905304	2.735054	0.833094
1	2.999088	-1.858179	0.499853	6	-0.905718	1.097786	2.826179
1	3.886992	-0.373457	0.058804	1	-0.500222	0.160184	3.241669
1	2.911710	-0.420982	1.557408	1	-0.211079	1.913739	3.088512
6	-1.986411	-0.181720	-1.570835	1	-1.875293	1.296728	3.321559
1	-1.552439	0.781288	-1.891666	6	-3.748723	0.243659	-1.693386
1	-1.600473	-0.968027	-2.240511	1	-4.381795	0.993729	-1.189358
1	-3.077974	-0.119793	-1.712485	1	-2.914466	0.760342	-2.190928
6	-2.107970	0.837909	1.338307	1	-4.364871	-0.263784	-2.454647
1	-3.206905	0.927832	1.334730	6	-4.484769	-1.935484	0.322295
1	-1.785287	0.659619	2.376634	1	-5.052776	-2.496939	-0.438701
1	-1.689149	1.804537	1.011709	1	-4.119885	-2.656655	1.071991
				1	-5.184477	-1.248846	0.828041

Structure S114. ²TS6

6	1.890484	-1.290188	-0.128175
6	3.197330	-1.526055	0.272433
6	4.170339	-0.528615	0.128908
6	3.776475	0.703078	-0.406092
6	2.458978	0.906215	-0.792543
1	3.457059	-2.496021	0.706248
1	4.498308	1.517535	-0.515685
6	5.586979	-0.780424	0.520742
1	6.131641	-1.255087	-0.313299
1	6.113710	0.153037	0.765333
1	5.652813	-1.465453	1.378668
6	1.920352	2.194389	-1.300578
1	1.325138	2.043358	-2.213207
1	1.226363	2.613157	-0.546894
1	2.719179	2.921903	-1.493050
6	0.777085	-2.262604	0.019899
1	-0.013604	-1.830306	0.661972
1	0.302357	-2.467908	-0.952993
1	1.121205	-3.207924	0.458539
7	1.570186	-0.094070	-0.655507
1	0.488814	0.113609	-0.985923
9	-0.720110	0.449868	-1.283821

Structure S115. R₃Si-F

9	1.688985	-0.921634	-1.348060
8	-0.166882	-0.345401	0.420943
14	1.399495	-0.046731	0.006819
14	-1.657214	0.003297	-0.262832
1	-1.440581	0.203146	-1.731425
6	1.634182	1.731913	-0.459403
1	2.668618	1.930026	-0.782209
1	0.963115	2.007502	-1.290415
1	1.411881	2.394340	0.393004
6	2.516913	-0.675448	1.337330
1	2.328599	-1.742885	1.531962
1	3.574784	-0.556089	1.055454
1	2.349115	-0.122830	2.275342
6	-2.313875	1.572505	0.503625
1	-2.437779	1.448666	1.592088
1	-1.627885	2.418051	0.332066
1	-3.294875	1.840216	0.078079
6	-2.784476	-1.446415	0.044672
1	-3.780606	-1.268879	-0.392308
1	-2.376310	-2.369216	-0.396891
1	-2.912282	-1.611381	1.127083

Structure S116. Me₃NHPy

6 -0.623102 1.232249 -0.000117
6 0.742269 1.195633 -0.011519
6 1.471570 -0.033408 -0.019522
6 0.695318 -1.225965 -0.010275
6 -0.673527 -1.209690 0.000396
1 1.280873 2.150521 -0.019205
1 1.195283 -2.201816 -0.016222
6 2.963691 -0.051941 0.015921
1 3.375727 0.161064 1.023020
1 3.362491 -1.034182 -0.286117
1 3.401876 0.705702 -0.658396
6 -1.550870 -2.408086 0.002182
1 -2.212350 -2.428619 -0.884035
1 -0.956258 -3.332159 0.006474
1 -2.214702 -2.423296 0.886909
6 -1.451670 2.465577 0.002846
1 -2.112789 2.509632 -0.882304
1 -2.112595 2.504742 0.888556
1 -0.821666 3.365706 0.006029
7 -1.327114 0.026902 -0.002087
1 -2.338173 0.048169 0.070430

Structure S117. ¹TS8

27 0.105361 1.103309 -0.271428
8 -1.191038 -0.208598 -0.706319
8 1.390498 -0.252157 -0.592377
7 -1.123245 2.511122 -0.285539
7 1.385961 2.410319 0.100698
6 -2.466448 -0.088604 -0.811485
6 -3.301193 -1.253762 -1.004267
6 -4.672474 -1.076797 -1.081965
1 -5.305825 -1.960061 -1.213099
6 -5.322791 0.178020 -1.013272
6 -4.523307 1.289201 -0.869441
1 -4.978751 2.287486 -0.822537
6 -3.117873 1.186613 -0.757629
6 -2.384930 2.400775 -0.569346
1 -2.989692 3.318069 -0.661714
6 2.668930 2.262410 -0.011210
1 3.325313 3.120051 0.205267

6 3.364326 1.060035 -0.362850
6 4.777005 1.114193 -0.386340
1 5.265121 2.073869 -0.169483
6 5.543524 0.003738 -0.659044
6 4.854014 -1.201903 -0.927077
1 5.460656 -2.086464 -1.146539
6 3.475096 -1.330186 -0.929767
6 2.672838 -0.165342 -0.632005
6 -2.669136 -2.642287 -1.127081
6 -1.930847 -2.997596 0.166846
1 -2.641807 -3.054499 1.010678
1 -1.163630 -2.247749 0.411957
1 -1.440213 -3.983735 0.073616
6 -1.695023 -2.658993 -2.309274
1 -0.898690 -1.913386 -2.174868
1 -2.225630 -2.441529 -3.253005
1 -1.228528 -3.655834 -2.407049
6 -3.709099 -3.732835 -1.373567
1 -4.273484 -3.567803 -2.307261
1 -4.432851 -3.817183 -0.544936
1 -3.200279 -4.707344 -1.463905
6 2.797025 -2.663172 -1.251617
6 3.806173 -3.777445 -1.519984
1 4.452576 -3.974161 -0.647469
1 4.454137 -3.556760 -2.385250
1 3.265355 -4.711943 -1.745814
6 1.922624 -3.114721 -0.075527
1 1.164515 -2.359007 0.179205
1 2.545804 -3.299882 0.818591
1 1.408249 -4.060878 -0.323071
6 1.946726 -2.498723 -2.515549
1 2.584352 -2.231239 -3.376269
1 1.189610 -1.713002 -2.383330
1 1.428683 -3.443572 -2.758869
6 0.806827 3.679022 0.601141
6 -0.513528 3.863993 -0.208934
6 1.738591 4.874071 0.436140
1 1.200545 5.810143 0.649422
1 2.573852 4.827311 1.152418
1 2.162097 4.949085 -0.576861
6 0.531514 3.493393 2.095172
1 1.458647 3.167335 2.595816
1 0.214232 4.438208 2.563484
1 -0.235768 2.728710 2.284806

6 -1.440559 4.876103 0.456976
 1 -1.891924 4.476395 1.378721
 1 -0.894792 5.797742 0.710725
 1 -2.256965 5.178840 -0.216371
 6 -0.217051 4.312067 -1.639959
 1 -1.141137 4.274096 -2.238543
 1 0.155879 5.347596 -1.670620
 1 0.524930 3.654055 -2.120183
 6 7.054350 0.055323 -0.672844
 6 7.624307 -0.283692 -2.046191
 6 7.662733 -0.838717 0.402674
 1 7.337246 1.100622 -0.440372
 1 7.212189 0.375043 -2.827742
 1 8.722717 -0.183084 -2.058127
 1 7.388395 -1.324288 -2.330434
 1 7.281895 -0.580694 1.404281
 1 7.423873 -1.901229 0.219855
 1 8.762054 -0.749575 0.421357
 6 -6.828793 0.278869 -1.094539
 6 -7.502769 -0.405978 0.090100
 6 -7.371284 -0.259945 -2.413878
 1 -7.076567 1.357216 -1.044580
 1 -7.139493 -0.001046 1.048931
 1 -8.597887 -0.277505 0.057166
 1 -7.299814 -1.491478 0.089743
 1 -6.907690 0.244631 -3.277072
 1 -7.174168 -1.341578 -2.515725
 1 -8.463288 -0.120137 -2.482064
 6 -1.509011 -0.383921 2.722740
 6 -1.793523 -1.633658 3.258447
 6 -0.765401 -2.548418 3.501794
 6 0.541500 -2.128357 3.247026
 6 0.782761 -0.858251 2.731356
 1 -2.834148 -1.898238 3.475015
 1 1.388998 -2.788493 3.460009
 6 -1.061718 -3.927581 3.986429
 1 -1.304656 -4.582479 3.131164
 1 -0.200697 -4.373819 4.504997
 1 -1.932577 -3.942804 4.658919
 6 2.162030 -0.329218 2.549590
 1 2.160266 0.503660 1.837228
 1 2.544600 0.050294 3.512394
 1 2.858144 -1.104980 2.195143
 6 -2.569670 0.636090 2.492522

1 -2.266400 1.328812 1.696977
 1 -3.530502 0.172415 2.220763
 1 -2.726296 1.230666 3.409118
 7 -0.239298 -0.031343 2.442284
 1 -0.063936 0.718225 1.275548

Structure S118. 1

6 1.307803 0.572633 -0.062735
 6 0.271933 1.457538 0.246031
 6 -1.038407 0.995102 0.371716
 6 -1.352790 -0.353236 0.200253
 6 -0.308731 -1.233808 -0.103148
 6 1.003457 -0.793822 -0.236535
 1 0.477894 2.521681 0.383033
 1 -1.836609 1.708142 0.606107
 1 -0.499812 -2.302509 -0.251178
 8 1.975795 -1.685802 -0.572715
 8 2.600339 0.927035 -0.226882
 6 2.884678 -2.006777 0.457428
 1 2.357618 -2.422128 1.336375
 1 3.572239 -2.769792 0.067233
 1 3.471782 -1.129156 0.776532
 6 2.950638 2.277350 -0.075311
 1 2.726665 2.648209 0.941097
 1 4.032054 2.351346 -0.246990
 1 2.430552 2.919784 -0.808325
 6 -2.773181 -0.840729 0.350281
 1 -2.805522 -1.916465 0.099415
 1 -3.094303 -0.759215 1.405917
 6 -3.738457 -0.091488 -0.513853
 6 -4.781468 0.606749 -0.064672
 1 -3.535466 -0.124553 -1.594169
 1 -5.453374 1.141792 -0.742665
 1 -5.005638 0.665927 1.007675

Structure S119. ³TS9

27 1.428242 1.235976 -0.029690
 8 2.193768 -0.484411 -0.321431
 8 -0.133349 1.013394 1.110036
 7 3.268064 2.118063 -0.127283
 7 0.873232 3.141577 -0.356599
 6 3.401085 -0.893596 -0.109362

6	3.682651	-2.306376	-0.094341	1	-1.375154	-0.226863	4.623235
6	4.982120	-2.716311	0.161023	6	1.945953	4.009274	-0.875699
1	5.196416	-3.789459	0.186935	6	3.241001	3.590702	-0.085406
6	6.062905	-1.836384	0.388906	6	1.617842	5.485952	-0.686069
6	5.791975	-0.486296	0.345317	1	2.496704	6.115255	-0.891698
1	6.603744	0.235685	0.505016	1	0.834863	5.809855	-1.389366
6	4.491645	0.011815	0.102521	1	1.267233	5.704449	0.334407
6	4.350863	1.446981	0.068360	6	2.108750	3.720526	-2.367836
1	5.302771	1.988072	0.232037	1	1.141235	3.857361	-2.878644
6	-0.372531	3.466885	-0.406846	1	2.828791	4.413670	-2.829862
1	-0.664770	4.436258	-0.852576	1	2.451525	2.688944	-2.547043
6	-1.481061	2.692391	0.096750	6	4.497076	4.202715	-0.695490
6	-2.775791	3.178324	-0.179758	1	4.741517	3.754500	-1.671009
1	-2.876380	4.059102	-0.828694	1	4.385778	5.288965	-0.831156
6	-3.905986	2.577457	0.336703	1	5.365649	4.062739	-0.033302
6	-3.707643	1.504757	1.230894	6	3.132681	4.007702	1.381304
1	-4.596748	1.067478	1.693157	1	3.974340	3.580761	1.950144
6	-2.464972	0.987237	1.573091	1	3.175891	5.102227	1.493771
6	-1.302319	1.534472	0.925912	1	2.195964	3.643388	1.833552
6	2.565734	-3.314247	-0.387297	6	-5.284152	3.047493	-0.074582
6	2.080217	-3.113825	-1.828321	6	-6.326410	2.937016	1.028393
1	2.890259	-3.330105	-2.545920	6	-5.748732	2.305137	-1.325771
1	1.740719	-2.080692	-1.992903	1	-5.184315	4.118790	-0.339307
1	1.240321	-3.796818	-2.051922	1	-5.992996	3.418597	1.962168
6	1.395580	-3.140108	0.589235	1	-7.272109	3.410257	0.718244
1	0.940154	-2.144421	0.500494	1	-6.559911	1.882644	1.258756
1	1.731233	-3.275672	1.632442	1	-5.023282	2.415211	-2.149701
1	0.616482	-3.898079	0.388460	1	-5.856910	1.223937	-1.123822
6	3.048568	-4.757820	-0.262992	1	-6.724642	2.680981	-1.677725
1	3.401284	-4.990874	0.756258	6	7.452682	-2.365393	0.661896
1	3.861561	-4.991882	-0.970701	6	7.994328	-3.175454	-0.511106
1	2.213607	-5.442362	-0.487822	6	7.506954	-3.175081	1.953136
6	-2.317036	-0.082514	2.663446	1	8.107525	-1.481760	0.791216
6	-3.667923	-0.509004	3.234551	1	7.984006	-2.590365	-1.445002
1	-4.304625	-0.987981	2.469903	1	9.030950	-3.502127	-0.323726
1	-4.227580	0.333253	3.675537	1	7.391302	-4.084648	-0.681328
1	-3.507759	-1.250788	4.034583	1	7.146729	-2.587819	2.813326
6	-1.631829	-1.352315	2.148452	1	6.879219	-4.080818	1.882715
1	-0.631208	-1.137511	1.749927	1	8.535823	-3.506650	2.172132
1	-2.233967	-1.831919	1.356944	1	0.722061	1.089458	-1.378103
1	-1.525875	-2.079980	2.972311	6	-4.882011	-3.298799	-0.750696
6	-1.494078	0.513688	3.812853	6	-3.658406	-3.959896	-0.863971
1	-1.999516	1.399340	4.235575	6	-2.490179	-3.240039	-1.120978
1	-0.492444	0.814843	3.473007	6	-2.500443	-1.852344	-1.251296

6 -3.731163 -1.194317 -1.130193
6 -4.908201 -1.894856 -0.895732
1 -3.605090 -5.046769 -0.768815
1 -1.541288 -3.780982 -1.210604
1 -3.807829 -0.103185 -1.199494
8 -6.094347 -1.223037 -0.859562
8 -6.069523 -3.903791 -0.533017
6 -6.692965 -1.102180 0.410502
1 -6.039265 -0.536485 1.101743
1 -7.632464 -0.545314 0.283768
1 -6.916322 -2.086066 0.855991
6 -6.093472 -5.298661 -0.382535
1 -5.485305 -5.629057 0.478706
1 -7.137975 -5.586361 -0.207454
1 -5.731289 -5.814562 -1.289809
6 -1.204502 -1.112137 -1.419771
1 -0.841260 -0.797214 -0.413170
1 -0.418787 -1.799904 -1.778250
6 -1.207131 0.127679 -2.238999
6 -0.086842 0.591183 -2.839474
1 -2.101708 0.766402 -2.217373
1 -0.085572 1.539024 -3.387419
1 0.785720 -0.060622 -2.974493

Structure S120. 3

6 -1.431334 -0.557436 -0.066505
6 -0.425775 -1.484915 0.214128
6 0.906389 -1.077444 0.303971
6 1.274689 0.255258 0.120506
6 0.259058 1.178565 -0.154142
6 -1.073350 0.794939 -0.250184
1 -0.671451 -2.539702 0.357987
1 1.682231 -1.821605 0.518398
1 0.491270 2.237708 -0.312936
8 -2.016200 1.727121 -0.562323
8 -2.742525 -0.856269 -0.195917
6 -2.878356 2.090087 0.493423
1 -2.307403 2.484095 1.354680
1 -3.543755 2.881476 0.121611
1 -3.493136 1.239524 0.833384
6 -3.144939 -2.190633 -0.035930
1 -2.911043 -2.572254 0.974336
1 -4.232543 -2.219426 -0.180172

1 -2.670699 -2.853489 -0.781903
6 2.713092 0.685966 0.243689
1 2.813952 1.711368 -0.177115
1 2.975596 0.809779 1.315676
6 3.687728 -0.244736 -0.385539
1 3.393078 -0.721575 -1.330574
6 5.113304 -0.258115 0.015076
1 5.635197 -1.165859 -0.326832
1 5.678286 0.602098 -0.403517
1 5.227177 -0.188167 1.111945

Structure S121. Co^{II}(salen)

27 -0.654199 0.000204 -0.000030
8 0.685129 -1.303075 0.066638
8 0.686010 1.302574 -0.066680
7 -2.024603 -1.259186 -0.259620
7 -2.023751 1.260522 0.259602
6 0.605711 -2.585372 -0.015836
6 1.800169 -3.384361 0.105059
6 1.677389 -4.759928 -0.000714
1 2.572675 -5.381410 0.082148
6 0.449627 -5.418712 -0.211994
6 -0.695028 -4.670263 -0.316962
1 -1.667705 -5.149906 -0.476026
6 -0.642902 -3.259968 -0.221595
6 -1.872963 -2.544226 -0.330668
1 -2.764752 -3.170456 -0.495749
6 -3.318844 -0.607460 -0.459817
1 -3.321990 -0.212268 -1.500266
6 -3.318444 0.609676 0.459759
1 -3.321894 0.214482 1.500206
6 -4.561144 1.457198 0.264315
1 -4.546590 1.890004 -0.755673
1 -4.571528 2.304053 0.970764
6 -5.810411 0.608191 0.458240
1 -5.856336 0.269736 1.511369
1 -6.712286 1.220336 0.293140
6 -5.810807 -0.604278 -0.458372
1 -5.856469 -0.265788 -1.511501
1 -6.713104 -1.215806 -0.293301
6 -4.562127 -1.454137 -0.264412
1 -4.573069 -2.300979 -0.970866
1 -4.547900 -1.886960 0.755574

6 -1.871225 2.545453 0.330722
 1 -2.762576 3.172294 0.495855
 6 -0.640670 3.260352 0.221714
 6 -0.691833 4.670667 0.317246
 1 -1.664183 5.150952 0.476372
 6 0.453332 5.418349 0.212357
 6 1.680642 4.758747 0.000995
 1 2.576355 5.379620 -0.081826
 6 1.802480 3.383111 -0.104943
 6 0.607475 2.584922 0.015863
 6 3.152180 -2.709809 0.350596
 6 3.121134 -1.969515 1.692421
 1 2.947950 -2.674429 2.524536
 1 2.329241 -1.207642 1.717030
 1 4.086409 -1.465297 1.876993
 6 3.472314 -1.730642 -0.784884
 1 2.745180 -0.907200 -0.829154
 1 3.471743 -2.247839 -1.760603
 1 4.478540 -1.297988 -0.641115
 6 4.290719 -3.724620 0.412521
 1 4.407115 -4.283095 -0.532417
 1 4.163423 -4.454751 1.230268
 1 5.242031 -3.197727 0.596974
 6 3.154041 2.707731 -0.350677
 6 4.293190 3.721865 -0.412378
 1 4.409820 4.280175 0.532630
 1 4.166413 4.452157 -1.230062
 1 5.244205 3.194424 -0.596796
 6 3.473629 1.728062 0.784532
 1 2.746163 0.904893 0.828456
 1 3.473169 2.244946 1.760418
 1 4.479698 1.295050 0.640735
 6 3.122501 1.967844 -1.692713
 1 2.949998 2.673142 -2.524645
 1 2.329959 1.206660 -1.717610
 1 4.087366 1.462861 -1.877334
 1 0.424661 6.508512 0.287935
 1 0.420210 -6.508864 -0.287451

Structure S122. 11

6 3.372760 -1.344521 -0.472791
 6 3.980011 -0.096090 -0.368276
 6 2.019273 -1.464872 -0.184790

6 1.257950 -0.347526 0.173513
 6 1.864822 0.918078 0.302291
 6 3.233402 1.009869 0.026619
 1 3.953024 -2.223147 -0.767940
 1 5.046913 0.017490 -0.582688
 1 1.524985 -2.439442 -0.239088
 6 -0.171864 -0.631768 0.505217
 6 1.122044 2.141011 0.745260
 1 3.724465 1.983021 0.135362
 8 -0.496333 -1.558507 1.220367
 7 -1.120246 0.235979 -0.015433
 9 -0.667369 0.842453 -1.177487
 6 -2.577199 -0.029086 -0.116638
 1 0.392904 1.922510 1.540966
 1 0.556413 2.594134 -0.085458
 1 1.819036 2.902305 1.126342
 6 -3.119874 -0.251672 1.290027
 6 -2.828597 -1.231500 -1.016290
 6 -3.228629 1.222082 -0.694290
 1 -2.733392 -1.171278 1.745801
 1 -4.218653 -0.319535 1.237928
 1 -2.863415 0.597062 1.945384
 1 -2.964555 2.115156 -0.104425
 1 -4.322882 1.102377 -0.660421
 1 -2.943112 1.400320 -1.741009
 1 -2.404846 -2.150672 -0.582677
 1 -2.381513 -1.073287 -2.011582
 1 -3.911264 -1.386912 -1.153141

Structure S123. 2INT5

9 0.753202 -0.032000 1.174192
 7 0.939194 -0.377642 2.513158
 6 -0.278923 -1.043642 3.051504
 6 -0.242720 -0.941145 4.571389
 1 0.565386 -1.536722 5.013683
 1 -0.120840 0.107655 4.887629
 1 -1.205092 -1.303521 4.968010
 6 -0.324637 -2.491729 2.583765
 1 0.505996 -3.079344 3.004296
 1 -1.272472 -2.963435 2.891323
 1 -0.273428 -2.535151 1.484351
 6 -1.488444 -0.274404 2.540014
 1 -2.400823 -0.737403 2.949371

1	-1.456638	0.777646	2.869556	6	2.056820	0.824168	-1.980433
1	-1.565964	-0.289596	1.442933	1	3.072066	0.710259	-2.395081
6	2.241247	-0.796272	2.743288	6	1.687478	2.162364	-1.637296
8	2.503098	-1.512013	3.689448	6	2.657338	3.175468	-1.814343
6	3.301103	-0.312922	1.805457	1	3.627183	2.901663	-2.246669
6	3.464139	1.028867	1.405263	6	2.392284	4.471408	-1.446212
6	4.230278	-1.286679	1.419684	6	1.142791	4.772411	-0.867029
6	4.558265	1.328144	0.583299	1	0.967407	5.806208	-0.557701
6	5.300733	-0.966903	0.593702	6	0.146820	3.830831	-0.669145
6	5.459538	0.351243	0.170461	6	0.396078	2.474792	-1.096179
1	4.706013	2.369371	0.275580	6	-5.001542	0.291652	-0.248744
1	6.011721	-1.740683	0.288803	6	-4.845072	0.916586	-1.639784
1	6.301857	0.626072	-0.471833	1	-5.396986	0.331707	-2.396618
27	-0.434645	-0.271113	-1.151927	1	-3.790731	0.969222	-1.946665
8	-2.278158	-0.338720	-0.797188	1	-5.254486	1.942569	-1.647477
8	-0.528478	1.592283	-0.964906	6	-4.280522	1.154242	0.793760
7	-0.237428	-2.140355	-1.076912	1	-3.206916	1.248704	0.573766
7	1.321677	-0.231180	-1.839055	1	-4.397410	0.728069	1.806321
6	-3.040345	-1.348244	-0.553722	1	-4.717693	2.168702	0.811474
6	-4.431987	-1.129912	-0.251021	6	-6.488407	0.306053	0.096344
6	-5.218152	-2.235988	0.030414	1	-6.689087	-0.094396	1.105139
1	-6.274465	-2.090078	0.270873	1	-7.095699	-0.264148	-0.627593
6	-4.731222	-3.557826	0.026146	1	-6.858767	1.344898	0.081073
6	-3.410207	-3.778237	-0.274522	6	-1.168189	4.172133	0.035378
1	-2.999167	-4.794302	-0.290101	6	-1.245205	5.648231	0.414377
6	-2.548866	-2.695311	-0.563984	1	-1.215998	6.310214	-0.468568
6	-1.178566	-2.997844	-0.839825	1	-0.434340	5.951818	1.098609
1	-0.921100	-4.069502	-0.807392	1	-2.197573	5.844878	0.935232
6	1.169630	-2.516497	-1.202698	6	-2.367505	3.867458	-0.870205
1	1.655081	-2.251188	-0.234230	1	-2.435547	2.797773	-1.113510
6	1.763757	-1.566018	-2.239534	1	-2.296270	4.433235	-1.815917
1	1.260454	-1.802269	-3.203904	1	-3.306449	4.170428	-0.372855
6	3.255692	-1.773040	-2.403995	6	-1.258289	3.355027	1.331491
1	3.759939	-1.466320	-1.467424	1	-0.452972	3.643814	2.031177
1	3.651754	-1.128034	-3.206567	1	-1.171360	2.275952	1.132946
6	3.563830	-3.231777	-2.710012	1	-2.221401	3.536196	1.842224
1	3.140136	-3.496865	-3.698192	1	-5.402674	-4.388609	0.258245
1	4.653964	-3.374599	-2.795365	1	3.135199	5.261200	-1.585659
6	2.985177	-4.157379	-1.652320	6	2.546843	2.128732	1.836706
1	3.470359	-3.946944	-0.679194	1	1.649670	2.164848	1.196452
1	3.212415	-5.209984	-1.888291	1	2.190560	1.999505	2.870558
6	1.481180	-3.967047	-1.509506	1	3.042750	3.107861	1.761342
1	1.092685	-4.623376	-0.712026	1	4.099196	-2.309155	1.788154
1	0.968012	-4.260922	-2.446755				

Structure S124. ²TS16

9 0.352246 -0.326901 1.036592
7 0.623102 -0.531681 2.722565
6 -0.572932 -1.232478 3.184947
6 -0.517696 -1.212499 4.716873
1 0.331412 -1.792603 5.102605
1 -0.441989 -0.178782 5.091771
1 -1.452150 -1.648691 5.108105
6 -0.657608 -2.657182 2.652300
1 0.128944 -3.298885 3.075840
1 -1.638921 -3.098861 2.893871
1 -0.555391 -2.649645 1.555626
6 -1.785638 -0.423929 2.737948
1 -2.697780 -0.847664 3.189742
1 -1.695179 0.629430 3.054792
1 -1.895653 -0.438473 1.644274
6 1.895520 -1.050141 2.792977
8 2.177396 -1.949737 3.571425
6 2.951251 -0.413243 1.945972
6 3.017218 0.960433 1.624555
6 3.980320 -1.276740 1.547952
6 4.126027 1.398046 0.887626
6 5.062457 -0.821015 0.805686
6 5.131648 0.530160 0.472585
1 4.197712 2.464541 0.646114
1 5.851122 -1.514289 0.496998
1 5.980257 0.915794 -0.101512
27 -0.205868 -0.205133 -0.985630
8 -2.057269 -0.348047 -0.834377
8 -0.414762 1.643722 -0.842088
7 0.032763 -2.067802 -1.108199
7 1.490640 -0.058980 -1.811588
6 -2.812906 -1.393684 -0.724710
6 -4.226698 -1.222998 -0.535140
6 -4.999390 -2.363807 -0.370332
1 -6.075106 -2.258253 -0.208625
6 -4.474365 -3.668347 -0.402481
6 -3.128973 -3.839777 -0.621389
1 -2.688759 -4.842167 -0.666216
6 -2.284644 -2.720475 -0.784040
6 -0.889916 -2.963951 -1.002440
1 -0.601492 -4.025913 -1.066478
6 1.450247 -2.378061 -1.269394

1 1.934888 -2.134235 -0.297404
6 1.982549 -1.358474 -2.275733
1 1.474555 -1.574261 -3.241889
6 3.479701 -1.492700 -2.469538
1 3.985288 -1.212372 -1.525149
1 3.836174 -0.796222 -3.247183
6 3.839690 -2.922304 -2.849984
1 3.407534 -3.157444 -3.842086
1 4.932555 -3.015749 -2.961579
6 3.319267 -3.919603 -1.827708
1 3.812917 -3.737004 -0.853655
1 3.583391 -4.949552 -2.118376
6 1.811687 -3.798320 -1.652273
1 1.460910 -4.506585 -0.882515
1 1.297779 -4.065754 -2.597063
6 2.172913 1.040036 -1.922563
1 3.181287 0.987032 -2.365001
6 1.757201 2.341304 -1.521622
6 2.677614 3.406846 -1.669385
1 3.662142 3.192508 -2.101561
6 2.343335 4.674638 -1.268908
6 1.069998 4.902578 -0.701186
1 0.840210 5.920964 -0.376984
6 0.120503 3.911429 -0.532837
6 0.454985 2.576985 -0.968193
6 -4.840512 0.180381 -0.534353
6 -4.571314 0.858413 -1.883101
1 -5.028079 0.284960 -2.708733
1 -3.494228 0.953472 -2.084659
1 -5.011483 1.871347 -1.896536
6 -4.255681 1.028763 0.600743
1 -3.169303 1.165319 0.494235
1 -4.456324 0.566557 1.583398
1 -4.728128 2.027249 0.603551
6 -6.353607 0.135182 -0.337841
1 -6.638916 -0.308310 0.631726
1 -6.866489 -0.426115 -1.137860
1 -6.756004 1.161929 -0.354949
6 -1.236542 4.175121 0.124281
6 -1.388921 5.637461 0.533340
1 -1.343830 6.322720 -0.330907
1 -0.623028 5.952552 1.262856
1 -2.371565 5.785297 1.011988
6 -2.369671 3.849206 -0.856013

1	-2.384149	2.783363	-1.125361	8	-2.030130	-0.367017	-1.170064
1	-2.267562	4.439871	-1.783427	8	-0.419234	1.681612	-1.300013
1	-3.346348	4.103199	-0.406599	7	0.106180	-2.046466	-1.052847
6	-1.375430	3.324782	1.395515	7	1.539341	-0.101907	-1.960516
1	-0.617378	3.614513	2.144984	6	-2.761075	-1.399146	-0.868317
1	-1.264291	2.248361	1.189918	6	-4.166040	-1.224349	-0.644745
1	-2.368260	3.483166	1.853924	6	-4.917081	-2.352037	-0.336740
1	-5.135966	-4.527221	-0.263776	1	-5.988908	-2.240540	-0.155404
1	3.047279	5.503688	-1.377954	6	-4.373160	-3.642812	-0.230561
6	1.990068	1.964257	2.041256	6	-3.023978	-3.813904	-0.429128
1	1.063787	1.839103	1.458147	1	-2.560321	-4.802062	-0.337803
1	1.696787	1.850722	3.096478	6	-2.206918	-2.707563	-0.738256
1	2.361294	2.989607	1.888664	6	-0.803339	-2.941977	-0.885650
1	3.914740	-2.327508	1.847636	1	-0.490254	-3.996758	-0.834048

Structure S125. 4INT6

9	0.271594	0.074474	0.683053	1	2.003477	-1.984265	-0.246176
7	0.760507	-0.759579	3.372070	6	2.029184	-1.434413	-2.310998
6	-0.662481	-0.990788	3.552861	1	1.499929	-1.748986	-3.236793
6	-0.789065	-1.716025	4.895422	6	3.521763	-1.573614	-2.526505
1	-0.282308	-2.694310	4.855490	1	4.047817	-1.199568	-1.626906
1	-0.335561	-1.125476	5.707589	1	3.849346	-0.952884	-3.378154
1	-1.852954	-1.887000	5.132499	6	3.880986	-3.034074	-2.763321
6	-1.365944	-1.778756	2.453736	1	3.414066	-3.378257	-3.706598
1	-0.998945	-2.813590	2.390660	1	4.969573	-3.133466	-2.905593
1	-2.451404	-1.804102	2.657239	6	3.408383	-3.912474	-1.615989
1	-1.204971	-1.286134	1.485442	1	3.931877	-3.614207	-0.687630
6	-1.308868	0.394215	3.658291	1	3.676651	-4.966302	-1.795703
1	-2.360649	0.283181	3.970033	6	1.905863	-3.790292	-1.400971
1	-0.793735	1.026836	4.399453	1	1.596555	-4.390863	-0.528322
1	-1.291462	0.900148	2.679553	1	1.366010	-4.185493	-2.284997
6	1.569663	-1.340858	2.441623	6	2.275946	0.962981	-1.958785
8	1.440617	-2.530985	2.159881	1	3.320139	0.876231	-2.301097
6	2.758565	-0.560248	1.963519	6	1.881584	2.261547	-1.525643
6	2.880509	0.846722	2.006087	6	2.877595	3.262053	-1.456115
6	3.796297	-1.327795	1.421977	1	3.901242	3.006058	-1.752021
6	4.035044	1.416694	1.453519	6	2.564188	4.520625	-1.008468
6	4.944833	-0.742934	0.901187	6	1.242777	4.790519	-0.601136
6	5.055931	0.645395	0.905375	1	1.030107	5.791089	-0.215785
1	4.129149	2.508370	1.462117	6	0.220163	3.856220	-0.645303
1	5.747257	-1.367872	0.495440	6	0.525946	2.547896	-1.158976
1	5.945052	1.132592	0.492131	6	-4.784601	0.174511	-0.674151
27	-0.179419	-0.168679	-1.102206	6	-4.581300	0.832884	-2.042761
				1	-5.078350	0.249174	-2.837434
				1	-3.516489	0.927084	-2.299075

1	-5.024193	1.844666	-2.046555	6	-0.778359	3.231145	0.200320
6	-4.135154	1.025805	0.423087	6	-1.964151	2.446522	0.355620
1	-3.060616	1.175077	0.241400	1	-2.897327	3.018780	0.482044
1	-4.254756	0.550099	1.413155	6	-3.276155	0.400023	0.460561
1	-4.616970	2.018666	0.470538	1	-3.208317	-0.160952	1.415990
6	-6.286029	0.136842	-0.401892	6	-3.220372	-0.637790	-0.666018
1	-6.523251	-0.266865	0.597374	1	-3.251704	-0.069385	-1.621146
1	-6.835656	-0.455830	-1.153495	6	-4.412937	-1.573373	-0.609942
1	-6.690159	1.162239	-0.439987	1	-4.352155	-2.171011	0.320795
6	-1.171143	4.145285	-0.079601	1	-4.390966	-2.285455	-1.452282
6	-1.299701	5.585969	0.406566	6	-5.711335	-0.778042	-0.632431
1	-1.176973	6.317122	-0.411678	1	-5.801922	-0.257504	-1.605291
1	-0.574720	5.830590	1.201246	1	-6.571499	-1.464333	-0.570320
1	-2.305391	5.739558	0.832739	6	-5.758005	0.244571	0.491520
6	-2.264057	3.916163	-1.129897	1	-5.750487	-0.280424	1.465621
1	-2.334947	2.860719	-1.428141	1	-6.698385	0.818480	0.457048
1	-2.072686	4.518268	-2.035722	6	-4.567663	1.191447	0.427302
1	-3.244150	4.229452	-0.728569	1	-4.601120	1.908817	1.265003
6	-1.383914	3.222148	1.127137	1	-4.611043	1.782570	-0.509278
1	-0.671300	3.471939	1.933452	6	-1.684905	-2.524832	-0.698472
1	-1.233811	2.164112	0.858370	1	-2.535409	-3.169990	-0.973892
1	-2.403219	3.339060	1.537069	6	-0.448491	-3.205919	-0.509095
1	-5.017767	-4.489859	0.016998	6	-0.447468	-4.616703	-0.617169
1	3.325143	5.302782	-0.947573	1	-1.388193	-5.127042	-0.852134
6	1.838927	1.747677	2.583217	6	0.708818	-5.326673	-0.419238
1	0.873828	1.576857	2.081830	6	1.890963	-4.632776	-0.089175
1	1.691303	1.554259	3.659046	1	2.789770	-5.228172	0.091773
1	2.121988	2.805080	2.457879	6	1.961641	-3.255064	0.030344
1	3.674633	-2.415707	1.424933	6	0.763036	-2.497634	-0.216450

Structure S126. Co^{III}(salen)-F

27	-0.584271	-0.041840	0.176199	6	3.005343	2.830693	-0.513765
8	0.606150	1.337667	-0.223904	6	2.986610	2.065605	-1.841987
8	0.821628	-1.213418	-0.201745	1	2.757996	2.743772	-2.682964
7	-2.036889	1.160051	0.352207	1	2.241860	1.257233	-1.838028
7	-1.898180	-1.254549	-0.561684	1	3.976730	1.616177	-2.036270
6	0.478728	2.619350	-0.089773	6	3.380181	1.885533	0.634886
6	1.634192	3.456039	-0.244427	1	2.679071	1.042346	0.723631
6	1.458924	4.826963	-0.117116	1	3.394354	2.424492	1.598307
1	2.324946	5.484446	-0.226055	1	4.391334	1.472225	0.471245
6	0.217054	5.430292	0.151443	6	4.097850	3.892329	-0.612356
6	-0.891340	4.633734	0.307589	1	4.206480	4.472817	0.319935
1	-1.873669	5.068722	0.522386	1	3.923239	4.600394	-1.440834
				1	5.067689	3.403930	-0.804830
				6	3.243273	-2.530765	0.446363
				6	4.389578	-3.509078	0.689767

1 4.670130 -4.065215 -0.221784
 1 4.157916 -4.239868 1.483424
 1 5.283586 -2.951727 1.016642
 6 3.694999 -1.561831 -0.652839
 1 2.958732 -0.764594 -0.826837
 1 3.855867 -2.096845 -1.605588
 1 4.653630 -1.090197 -0.371729
 6 2.993888 -1.777299 1.760285
 1 2.792797 -2.488540 2.580287
 1 2.136400 -1.090708 1.701048
 1 3.887377 -1.191230 2.040514
 9 -0.627534 -0.509356 1.944584
 1 0.145425 6.517435 0.237865
 1 0.719868 -6.416879 -0.495875

Structure S127. 12

6 3.479962 -1.054772 0.153478
 6 3.853079 0.287297 0.170712
 6 2.140855 -1.380459 -0.001343
 6 1.161439 -0.388643 -0.145964
 6 1.529486 0.975039 -0.120094
 6 2.887132 1.279033 0.037882
 1 4.231094 -1.842554 0.258873
 1 4.904116 0.566713 0.291383
 1 1.812464 -2.423216 -0.019086
 6 -0.236562 -0.890464 -0.299207
 6 0.551302 2.101947 -0.238907
 1 3.188620 2.331718 0.058715
 8 -0.510156 -2.081857 -0.228728
 7 -1.212255 0.015132 -0.633390
 6 -2.468392 0.122515 0.091971
 1 -0.204422 2.074631 0.564838
 1 -0.001530 2.071774 -1.192277
 1 1.065521 3.072629 -0.170348
 6 -2.301094 -0.100423 1.591315
 6 -3.406663 -0.934586 -0.508885
 6 -3.043401 1.507532 -0.186018
 1 -1.938309 -1.116392 1.811481
 1 -3.264482 0.034388 2.109773
 1 -1.585361 0.621953 2.021287
 1 -2.422885 2.301496 0.260552
 1 -4.056147 1.591875 0.240933
 1 -3.106636 1.692418 -1.270497

1 -3.021383 -1.948420 -0.332666
 1 -3.513967 -0.786648 -1.595322
 1 -4.402504 -0.837538 -0.043731

Structure S128. [Co^{IV}(salen)-F]⁺

27 -0.587444 -0.110994 0.203734
 8 0.375582 1.393303 -0.198515
 8 1.008789 -1.090678 -0.131210
 7 -2.186026 0.827337 0.395228
 7 -1.706680 -1.518067 -0.602430
 6 0.077344 2.650956 -0.039715
 6 1.097331 3.636406 -0.226306
 6 0.731900 4.965511 -0.056204
 1 1.488741 5.742526 -0.184899
 6 -0.569743 5.378202 0.278516
 6 -1.552778 4.434693 0.453156
 1 -2.576084 4.725222 0.711295
 6 -1.245098 3.065662 0.303836
 6 -2.296638 2.114519 0.447091
 1 -3.303611 2.532527 0.598196
 6 -3.309194 -0.108562 0.454531
 1 -3.184787 -0.687936 1.392447
 6 -3.099716 -1.085306 -0.711838
 1 -3.168117 -0.484372 -1.643418
 6 -4.154042 -2.170997 -0.728398
 1 -4.045270 -2.789381 0.184179
 1 -4.009103 -2.837580 -1.595681
 6 -5.543455 -1.548251 -0.764188
 1 -5.673569 -1.002754 -1.718162
 1 -6.307321 -2.341824 -0.757359
 6 -5.750005 -0.592863 0.399480
 1 -5.701457 -1.153783 1.351801
 1 -6.754016 -0.141984 0.358376
 6 -4.694916 0.504576 0.410538
 1 -4.843551 1.172680 1.275061
 1 -4.790183 1.123455 -0.503524
 6 -1.329817 -2.741836 -0.644039
 1 -2.068869 -3.530992 -0.858849
 6 0.017964 -3.226775 -0.425225
 6 0.233283 -4.589489 -0.506834
 1 -0.605811 -5.256073 -0.726990
 6 1.518122 -5.121717 -0.315503
 6 2.604206 -4.286719 -0.037877

1 3.580344 -4.749974 0.115340
6 2.475756 -2.907108 0.053665
6 1.143312 -2.339852 -0.160216
6 2.527544 3.222809 -0.578913
6 2.544597 2.463022 -1.910311
1 2.161384 3.095702 -2.729587
1 1.939369 1.545163 -1.875121
1 3.579702 2.179384 -2.169121
6 3.102801 2.349042 0.542432
1 2.540053 1.412644 0.674266
1 3.099125 2.890916 1.503788
1 4.151150 2.087893 0.314935
6 3.441136 4.435577 -0.731710
1 3.522090 5.021139 0.199714
1 3.112274 5.112301 -1.538734
1 4.458339 4.097401 -0.988912
6 3.638573 -1.995269 0.404410
6 4.927541 -2.787795 0.600576
1 5.241817 -3.312708 -0.317625
1 4.851891 -3.525338 1.417201
1 5.739697 -2.094166 0.869887
6 3.878547 -0.989835 -0.733253
1 3.053445 -0.274332 -0.851460
1 4.034553 -1.508579 -1.694800
1 4.795003 -0.414451 -0.519235
6 3.330697 -1.267168 1.724039
1 3.263842 -1.984874 2.558855
1 2.390709 -0.696880 1.697011
1 4.150515 -0.565719 1.953279
9 -0.604475 -0.775876 1.895481
1 -0.788918 6.441960 0.396030
1 1.670368 -6.201983 -0.380549

Structure S129. 15

6 3.413034 -1.251786 -0.177306
6 3.965253 0.026129 -0.162536
6 2.035124 -1.394893 -0.060940
6 1.167852 -0.300658 0.051738
6 1.728233 0.999756 0.072671
6 3.121914 1.126049 -0.031435
1 4.054698 -2.134686 -0.274565
1 5.048026 0.170824 -0.245985
1 1.559501 -2.380106 -0.042535

6 -0.318901 -0.649960 0.149676
6 0.921466 2.253903 0.216084
1 3.556767 2.133284 -0.006572
8 -0.586957 -1.843957 0.438590
7 -1.132356 0.350388 -0.121609
6 -2.564052 0.102602 -0.096515
1 0.255703 2.208101 1.091812
1 0.232479 2.385914 -0.631588
1 1.580516 3.134830 0.306075
6 -3.043165 -0.338162 1.290192
6 -2.982157 -0.939858 -1.138712
6 -3.238524 1.429635 -0.441440
1 -2.561693 -1.288354 1.566964
1 -4.142456 -0.463787 1.325722
1 -2.762340 0.420516 2.042971
1 -2.948877 2.205867 0.289537
1 -4.342372 1.351273 -0.447146
1 -2.908484 1.779915 -1.435664
1 -2.514388 -1.909178 -0.908031
1 -2.640288 -0.624567 -2.141074
1 -4.081112 -1.067458 -1.176235

Structure S130. 2TS17

6 3.572333 -0.990796 -0.061064
6 3.905236 0.364660 -0.064142
6 2.236424 -1.371774 -0.032791
6 1.228414 -0.406136 -0.004151
6 1.558998 0.961578 0.030044
6 2.907059 1.332893 -0.023340
1 4.359235 -1.749832 -0.091586
1 4.955595 0.669739 -0.095200
1 1.942839 -2.425414 -0.046205
6 -0.197686 -0.864562 -0.038543
6 0.467581 1.954677 0.133280
1 3.169137 2.396171 -0.014558
8 -0.508592 -2.026774 0.185005
7 -1.096703 0.089320 -0.427869
6 -2.508067 0.116362 -0.036819
1 0.138456 2.177509 1.161709
1 -0.492669 1.264276 -0.342981
1 0.589149 2.872725 -0.460848
6 -2.686290 -0.118897 1.458670
6 -3.239399 -0.957443 -0.845300

6 -3.050966 1.488037 -0.420551
1 -2.305840 -1.106975 1.757989
1 -3.753318 -0.067304 1.732269
1 -2.152376 0.650283 2.043513
1 -2.563069 2.291293 0.158415
1 -4.133001 1.541328 -0.219618
1 -2.887515 1.689499 -1.492186
1 -2.867973 -1.960329 -0.592118
1 -3.094202 -0.794577 -1.925555
1 -4.320606 -0.911032 -0.629760

Structure S131. 13

6 3.397107 -1.234706 -0.375034
6 3.943948 0.054885 -0.383709
6 2.039129 -1.401261 -0.107675
6 1.203680 -0.314751 0.132888
6 1.754087 1.011071 0.182048
6 3.145228 1.146208 -0.107154
1 4.026861 -2.105027 -0.579579
1 5.007261 0.198924 -0.597181
1 1.595778 -2.401328 -0.095409
6 -0.247351 -0.641660 0.347319
6 1.030170 2.156126 0.552691
1 3.578602 2.151730 -0.081548
8 -0.582041 -1.621819 0.994597
7 -1.125399 0.192888 -0.268625
6 -2.593577 0.095573 -0.210535
1 -0.009282 2.116473 0.887721
1 -0.735888 0.909663 -0.873847
1 1.534897 3.127155 0.578525
6 -3.063661 0.197246 1.236256
6 -3.064729 -1.209835 -0.842415
6 -3.130011 1.277379 -1.004624
1 -2.670584 -0.632973 1.840759
1 -4.165144 0.170115 1.282941
1 -2.726954 1.145454 1.689864
1 -2.790475 2.235660 -0.573809
1 -4.231561 1.277539 -0.997881
1 -2.801241 1.235623 -2.057654
1 -2.677098 -2.077536 -0.288881
1 -2.718661 -1.283399 -1.887249
1 -4.166514 -1.261392 -0.843512

Structure S132. 2TS18

6 3.936052 -2.368855 -0.225796
6 3.058344 -3.219650 -0.904069
6 3.680482 -1.000951 -0.185483
6 2.562107 -0.448633 -0.805446
6 1.689335 -1.297282 -1.550968
6 1.957392 -2.690092 -1.552848
1 4.817762 -2.775104 0.278161
1 3.246228 -4.296623 -0.934684
1 4.351320 -0.322135 0.348517
6 2.395110 1.040013 -0.637809
6 0.597067 -0.835713 -2.332416
1 1.281860 -3.346051 -2.112049
8 3.380052 1.755508 -0.520352
7 1.118462 1.488398 -0.615387
6 0.709903 2.900447 -0.558184
1 0.028361 -1.568475 -2.912638
1 0.518967 0.207026 -2.645545
6 1.410262 3.706310 -1.646933
6 1.012496 3.483534 0.817054
6 -0.789267 2.908790 -0.823080
1 2.495429 3.753633 -1.482186
1 1.012836 4.734893 -1.663977
1 1.231267 3.257800 -2.639571
1 -1.008442 2.526162 -1.835845
1 -1.190444 3.932576 -0.749823
1 -1.334257 2.272921 -0.103531
1 2.085686 3.399058 1.048526
1 0.445990 2.950565 1.598473
1 0.731633 4.549481 0.858883
1 0.367803 0.799525 -0.541084
6 1.250946 -1.787588 2.102111
6 1.624525 -0.699779 2.888699
6 -0.002872 -1.800325 1.500747
6 -0.889152 -0.742797 1.703556
6 -0.544063 0.342056 2.525473
6 0.734253 0.350057 3.094455
1 1.943540 -2.618955 1.940526
1 2.617756 -0.669241 3.347068
1 -0.303018 -2.635443 0.857627
6 -2.262947 -0.806504 1.112532
6 -1.532198 1.427967 2.820218
1 1.027885 1.197761 3.723479

8	-3.209245	-1.247409	1.739448	1	-2.632417	0.682239	1.907155
7	-2.426168	-0.213105	-0.120382	1	-2.724899	2.096308	-0.179358
6	-3.485839	-0.538925	-1.076467	1	-4.238648	1.269128	-0.645106
1	-1.059083	2.281227	3.329883	1	-2.868157	1.323312	-1.782016
1	-2.337747	1.057080	3.477070	1	-2.756338	-2.211243	-0.522814
6	-4.799722	-0.045375	-0.458275	1	-2.863948	-1.189287	-1.983169
6	-3.536523	-2.031200	-1.371907	1	-4.252455	-1.296791	-0.866956
6	-3.239629	0.258119	-2.352210	1	-0.775233	0.798674	-0.747261
1	-5.073879	-0.620512	0.435131	9	0.230247	2.459690	-0.448978
1	-5.601698	-0.142782	-1.208965				
1	-4.720869	1.018585	-0.179433				
1	-3.134455	1.331942	-2.126808				
1	-4.096105	0.133634	-3.034181				
1	-2.332943	-0.076716	-2.877139				
1	-3.752352	-2.615637	-0.464081				
1	-2.575423	-2.373996	-1.789382				
1	-4.325696	-2.248734	-2.110177				
1	-2.027345	1.805367	1.909406				
9	-0.973272	-0.501379	-0.982416				

Structure S134. 14

6	3.413019	-1.404673	-0.400065
6	3.942361	-0.128618	-0.227640
6	2.047878	-1.611575	-0.240476
6	1.187053	-0.553765	0.064208
6	1.720453	0.737104	0.258577
6	3.098484	0.924665	0.107818
1	4.066903	-2.244442	-0.652212
1	5.015754	0.046092	-0.343514
1	1.617490	-2.611153	-0.347681
6	-0.267355	-0.916094	0.227052
6	0.888999	1.920944	0.651200
1	3.514446	1.925059	0.268709
8	-0.585692	-1.977967	0.740529
7	-1.148759	-0.003748	-0.247110
6	-2.614237	-0.076885	-0.131173
1	1.529103	2.714677	1.069206
1	0.124099	1.660481	1.402768
6	-3.017869	-0.179940	1.335683
6	-3.151214	-1.264544	-0.920872
6	-3.140290	1.225854	-0.716671
1	-2.628137	-1.101071	1.793144
1	-4.116643	-0.184064	1.429588