

Fig. S1. ESI-MS for (a) [Fe(bipy)(phen)Cl₂]⁺ & (b) [Ni(bipy)(phen)Cl]⁺ complex

Encapsulation and characterization of (2,2-bipy) or (1,10-Phen) iron(III) and nickel(II) complex in zeolite-Y

To easily compare mixed bipy-phen liganded complex with simple bipy or phen ligand complexes encapsulated into the zeolite super cage the same experimental procedure were used for both cases with exception of refluxing time and amount of ligand used. Besides, 1:2 mmol of metal to ligand ratio was used in the synthesis of the simple bipy or phen metal complexes with aiming to form the central metal attached to four nitrogen (i.e. to synthesis similar complexes with mixed ligands cases). The amount of bipy and phen used for encapsulation work is depends on the content of the metal ions in the metal exchanged zeolite (i.e. Fe^{3+} -Y and Ni^{2+} -Y).

1 g of the corresponding metal exchanged zeolite (i.e. iron(III) and nickel(II) exchanged zeolite) and 2 mmol of simple ligands (i.e. 1,10-Phenanthroline or 2,2'-bipyridine) was dissolved in 50 mL of methanol and refluxed under constant stirring for 24 h at constant temperature of 150 °C in oil bath. Subsequently the solution was kept for two consecutive days for proper formation of complexes in the zeolite supercage. Then the solid product was subjected to Soxhlet extraction for removing surface adsorbed ligands and metal complexes. The extraction was done with acetonitrile, dichloromethane and diethyl ether till the washings were colorless. Finally, any uncomplexed metal ions, remaining in surface or inside the zeolite cage after complex formation, was removed by back exchanged process by stirring zeolite encapsulated metal complex with 0.01 M of NaCl solution for 3 h. Then the solid product was washed with hot water to remove the chloride ion and dried at 100 °C overnight.

Then to accurately differentiate the simple vs mixed liganded complexes metal and CHN analysis were used to characterize the synthesized simple bipy and phen-iron (III) and nickel (II) complexes.

Table S1

Physical and chemical analytical composition (molar ratio) of metal complex encapsulated into the zeolite supercage

Sample	Color of the catalyst	Elemental Analysis			
		Metal %	C %	N %	C/N
[Fe(bipy)(phen)Cl ₂] ⁺ -Y	Light orange	0.03	0.67	0.12	5.58
[Ni(bipy)(phen)Cl] ⁺ -Y	Light blue	0.03	0.62	0.11	5.63
[Fe(bipy) ₂ Cl ₂] ⁺ -Y	Light pink	0.02	0.51	0.12	4.25
[Ni(bipy) ₂ Cl ₂] ⁺ -Y	Bluish green	0.01	0.28	0.06	4.67
[Fe(phen) ₂ Cl ₂] ⁺ -Y	Brick red	0.02	0.41	0.08	5.12
[Ni(phen) ₂ Cl] ⁺ -Y	Light green	0.02	0.36	0.07	5.14

In contrast to [Fe(bipy)(phen)Cl₂]⁺-Y (Light orange) and [Ni(bipy)(phen)Cl]⁺-Y (Light blue) the color of the final catalyst for [Fe(bipy)₂Cl₂]⁺-Y, [Ni(bipy)₂Cl₂]⁺-Y, [Fe(phen)₂Cl₂]⁺-Y and [Ni(phen)₂Cl]⁺-Y is light pink, bluish green, brick red and light green respectively. As presented in Table S1, the elemental composition analyses also confirmed the purity of simple bipy or phen iron and nickel encapsulated complexes into zeolite supercage. The chemical analyses of encapsulated samples indicates the presence of organic matter with a C/N ratio roughly similar to the theoretical value and its indicating the successful formation of intended Fe(III) and Ni(II) complexes into the zeolite supercage. However in comparison to iron(III) and nickel(II) bipy-phen mixed liganded complexes they have different in C/N value. Moreover, all catalysts has the metal to carbon ratio is different from we reported for the mixed bipy-phen metal complexes.

Therefore, the above physical and elemental analysis comparison data is a good supporting evidence for the formation of zeolite encapsulated 1,10-phenanthroline and 2,2'-bipyridine iron(III) or nickel (II) mixed ligand complexes not the simple bipy or phen in the zeolite supercage during the original manuscript paper.

To compare the catalytic activity of simple iron(III) and nickel(II) bipy or phen ligand based catalyst with iron(III) and nickel(II) mixed bipy-phen ligand based catalyst an experiment on batch oxidation of 2-Phenyl Phenol (OPP) was carried out with similar experimental conditions

as mixed ligand cases. In a 250 mL conical flask, 50 mL of 25 mg/L 2-Phenyl Phenol (OPP) solution was treated with 0.10 M H₂O₂ and 0.15 g of respective catalyst. The experiments were conducted at room temperature (29±2 °C) in dynamic condition on a universal shaker (80 rpm) for a period of 120 min.

The residual concentration of 2-Phenyl Phenol (OPP) after 120 min oxidation time was 8.19 mg/L, 8.75 mg/L, 10.81 mg/L and 11.66 mg/L for [Fe(phen)₂Cl₂]⁺-Y, [Ni(phen)₂Cl]⁺-Y, [Fe(bipy)₂Cl₂]⁺-Y and [Ni(bipy)₂Cl₂]⁺-Y catalysts respectively. As compared to mixed ligand based catalysts such as [Fe(bipy)(phen)Cl₂]⁺-Y (5.46 mg/L) and [Ni(bipy)(phen)Cl]⁺-Y (7.13 mg/L), simple bipy or phen metal complex based catalyst shows lower catalytic activity. The increase of the catalytic efficiency of the mixed ligand based metal complexes is owing to the existence of the central metal ions in two different coordination atmospheres and it enables them to show good oxidation properties.

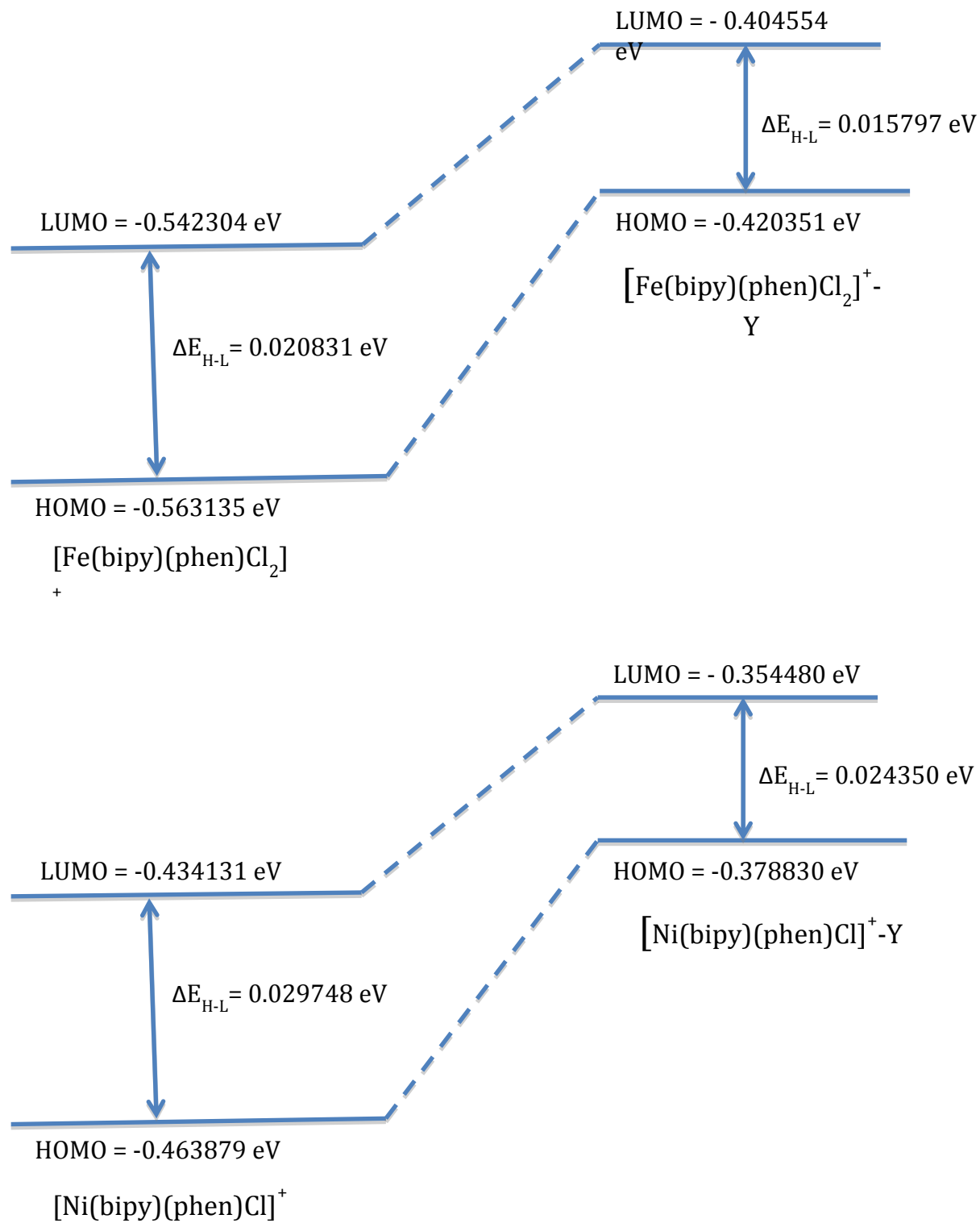
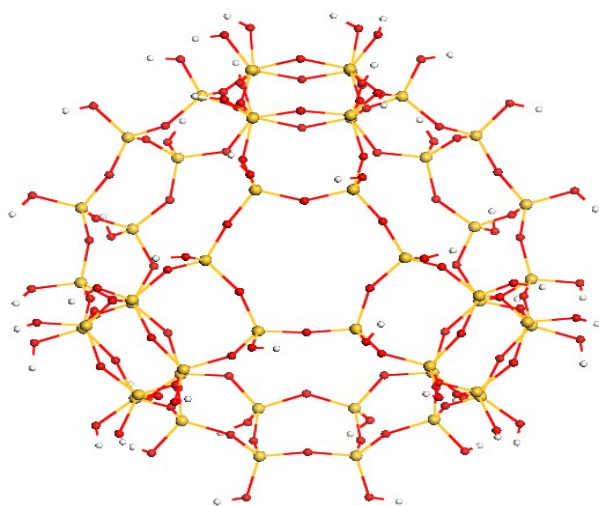
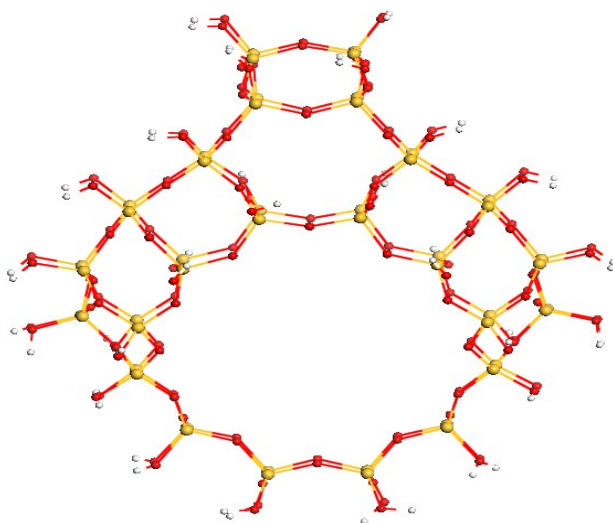


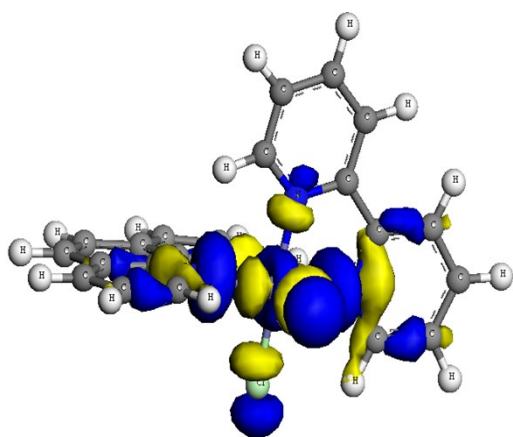
Fig. S2. Pictorial representation of the change in the HOMO-LUMO gap for Fe(III) and Ni(II) complexes of 1,10-phenanthroline and 2,2'-bipyridine ligands



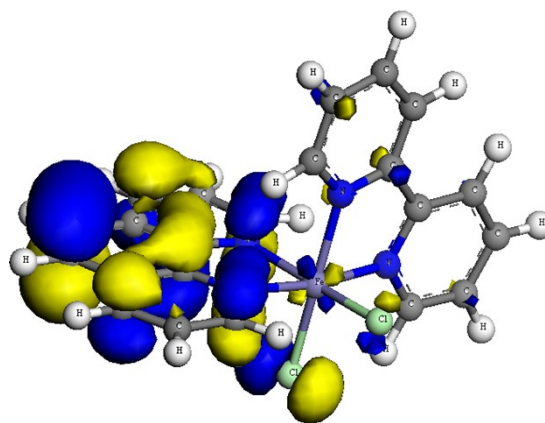
Neat zeolite



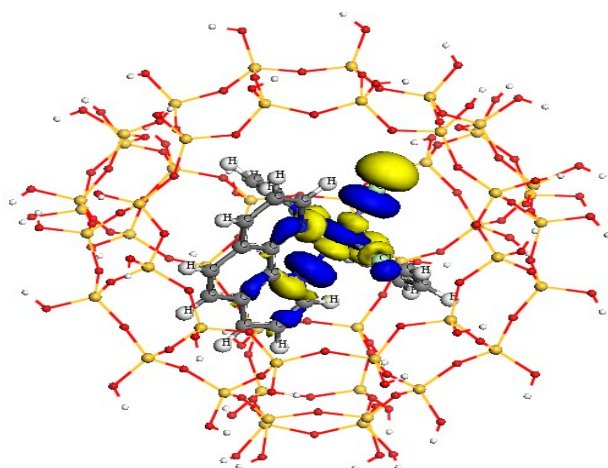
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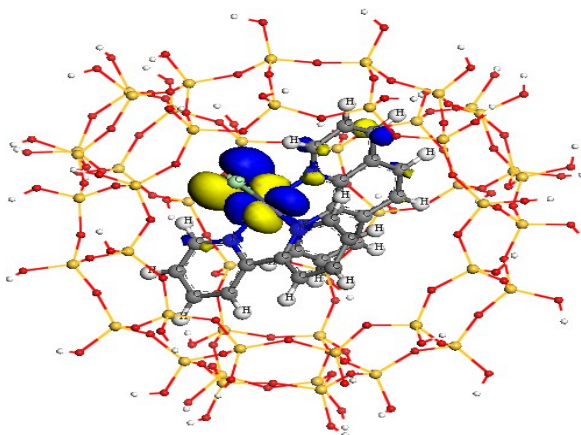
HOMO ($[\text{Fe}(\text{bipy})(\text{phen})\text{Cl}_2]^+$)



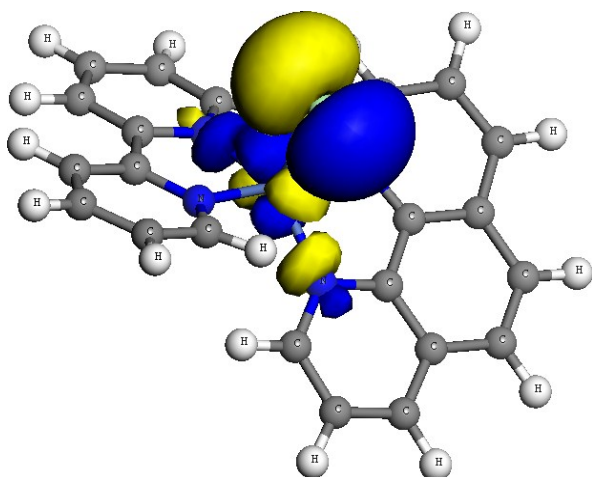
LUMO ($[\text{Fe}(\text{bipy})(\text{phen})\text{Cl}_2]^+$)



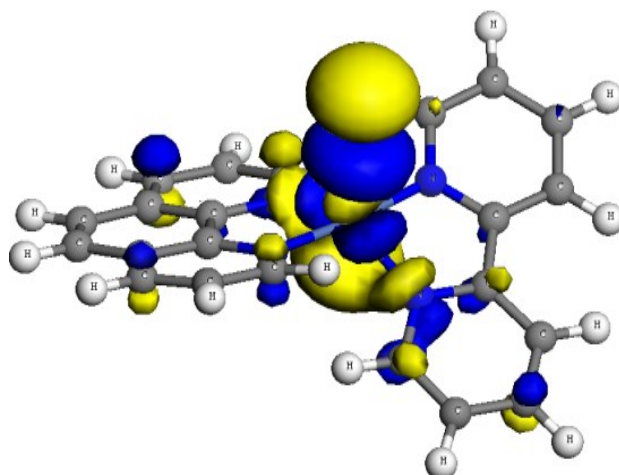
HOMO ($[\text{Fe}(\text{bipy})(\text{phen})\text{Cl}_2]^+-\text{Y}$)



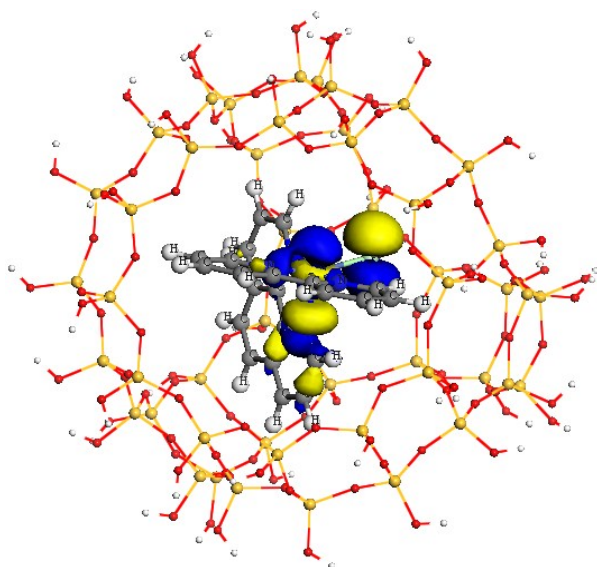
LUMO ($[\text{Fe}(\text{bipy})(\text{phen})\text{Cl}_2]^+-\text{Y}$)



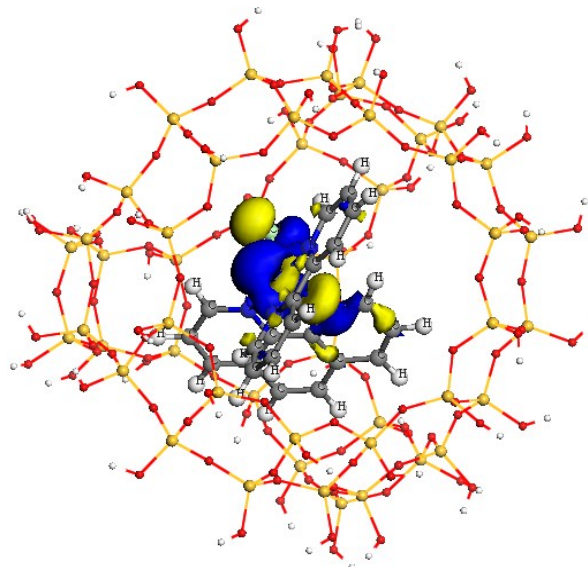
HOMO ($[\text{Ni}(\text{bipy})(\text{phen})\text{Cl}]^+$)



LUMO ($[\text{Ni}(\text{bipy})(\text{phen})\text{Cl}]^+$)



HOMO ($[\text{Ni}(\text{bipy})(\text{phen})\text{Cl}]^+-\text{Y}$)



LUMO ($[\text{Ni}(\text{bipy})(\text{phen})\text{Cl}]^+-\text{Y}$)

Fig.S3. Schematic representation for neat zeolite and the HOMO and LUMO level of the neat and encapsulated complexes Fe(III) and Ni(II) complexes of 1,10-phenanthroline and 2,2'-bipyridine ligands

Table S2

The optimized XYZ coordinates

Neat zeolite-Y

O	-6.99880000	1.43990000	1.92990000
O	5.70190000	-2.27060000	4.07560000
O	4.93200000	5.05430000	2.05690000
O	-1.45000000	2.14830000	-6.71910000
O	-4.35070000	-0.05050000	5.76730000
O	1.85840000	5.58630000	4.39620000
O	4.15980000	-0.51420000	-5.91360000
O	6.76860000	-2.20750000	-2.19880000
O	-5.38690000	2.92740000	-3.99760000
O	-5.03120000	-5.09330000	-1.35210000
O	-0.82160000	7.11310000	0.47120000
O	-5.15360000	5.15210000	-0.81900000
O	-7.24230000	-0.80120000	-1.24560000
O	2.23320000	6.62290000	-1.82360000
O	-3.17360000	-6.37390000	1.80010000
O	0.08130000	1.92850000	6.94650000
O	-2.78400000	-3.59360000	5.71710000
O	0.92280000	-7.01050000	-0.97640000
O	1.65270000	-1.58880000	6.79550000
O	0.84240000	-2.26430000	-6.90010000
O	1.89440000	3.96310000	-5.82900000
O	6.96270000	0.65670000	1.84530000
O	5.34260000	-5.09500000	0.02560000
O	-0.94930000	-5.81750000	-4.14950000

O	-8.39140000	1.46180000	-0.37190000
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O	3.12490000	-3.00140000	-5.74550000
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O	-5.27330000	-4.81020000	1.32110000
O	2.54240000	0.93760000	6.58010000
O	-4.95070000	-2.43220000	4.68960000
O	4.09540000	4.15770000	4.42140000
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O	1.59650000	-6.03300000	-3.38720000
O	-6.88720000	3.56460000	0.37320000
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Si	-0.43050000	1.66100000	-7.90450000
Si	-3.61810000	-0.14780000	7.22410000
Si	2.01840000	7.03380000	3.65650000

Si	4.49290000	-2.12050000	-5.74250000
Si	7.88030000	-2.36280000	-1.00370000
Si	-6.90600000	2.85810000	-3.38510000
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Si	-4.45450000	-6.54450000	-1.83980000
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Si	1.77690000	-3.55980000	-6.47560000
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O	7.17650000	-4.21440000	-3.97360000
H	8.02840000	-3.80740000	-4.18470000
O	3.73620000	8.80370000	-1.25980000

H	3.37810000	9.21550000	-2.06000000
O	1.18080000	8.36750000	-3.62830000
H	0.45380000	8.97270000	-3.41060000

[Fe(bipy)(phen)Cl₂]⁺

C	2.29600000	-0.58870000	1.37110000
C	0.29160000	-1.73680000	1.84200000
C	0.81480000	-2.21850000	3.04570000
C	2.11240000	-1.86700000	3.41460000
C	2.85520000	-1.04640000	2.57050000
C	2.99170000	0.23570000	0.40900000
C	2.79850000	1.36590000	-1.64620000
C	4.14620000	1.74850000	-1.59300000
C	4.92550000	1.35770000	-0.50540000
C	4.34210000	0.59630000	0.50590000
H	-0.71370000	-2.00650000	1.50890000
H	0.20380000	-2.87200000	3.67620000
H	2.54570000	-2.23560000	4.35040000
H	3.87590000	-0.76620000	2.84550000
H	2.16490000	1.64320000	-2.49450000
H	4.56860000	2.33960000	-2.41230000
H	5.98330000	1.63610000	-0.44880000
H	4.94740000	0.27020000	1.35650000
N	2.23620000	0.62900000	-0.66640000
N	1.01410000	-0.94140000	1.03170000
H	1.01520000	2.49490000	0.48760000
C	-0.05680000	2.37040000	0.66350000
C	-0.82360000	3.38190000	1.25140000

C	-2.19080000	3.20430000	1.41980000
H	-0.33670000	4.31270000	1.55840000
C	-1.94540000	1.00640000	0.43490000
C	-2.78720000	1.99310000	1.00340000
H	-2.80540000	3.99840000	1.86020000
C	-2.48780000	-0.22420000	-0.03020000
C	-4.17850000	1.72190000	1.09380000
C	-3.88110000	-0.46770000	0.03940000
C	-4.71270000	0.52610000	0.61830000
H	-4.84280000	2.47580000	1.53330000
C	-4.35870000	-1.68480000	-0.50180000
C	-2.09110000	-2.26800000	-1.09610000
H	-5.79360000	0.35130000	0.68110000
C	-3.45760000	-2.57470000	-1.07180000
H	-5.43060000	-1.91500000	-0.48040000
H	-1.36130000	-2.94820000	-1.54790000
H	-3.79940000	-3.51700000	-1.51200000
N	-0.61360000	1.20690000	0.26530000
N	-1.61690000	-1.11170000	-0.57390000
Fe	0.35080000	-0.29520000	-0.76620000
Cl	-0.20580000	0.72650000	-2.58900000
Cl	1.11920000	-2.10760000	-1.66030000

[Ni(bipy)(phen)Cl]⁺

C	2.97520000	0.73110000	0.17130000
C	1.64110000	2.44100000	1.10460000
C	2.75470000	3.25100000	1.27570000
C	4.00600000	2.78550000	0.87260000

C	4.11600000	1.50950000	0.32860000
C	2.93590000	-0.63510000	-0.30390000
C	1.50290000	-2.46480000	-0.68590000
C	2.55030000	-3.20830000	-1.21370000
C	3.82470000	-2.64770000	-1.26830000
C	4.01380000	-1.34350000	-0.81910000
H	0.65430000	2.72730000	1.47770000
H	2.63970000	4.22960000	1.74880000
H	4.89720000	3.40530000	1.00710000
H	5.09460000	1.11130000	0.04780000
H	0.48800000	-2.86510000	-0.64750000
H	2.36080000	-4.21920000	-1.58400000
H	4.66560000	-3.21920000	-1.67180000
H	5.00070000	-0.87720000	-0.88030000
N	1.69310000	-1.20940000	-0.22080000
N	1.75140000	1.22330000	0.52820000
H	0.07010000	2.93690000	-0.73770000
C	-0.92320000	2.48190000	-0.70810000
C	-2.04790000	3.17430000	-1.17490000
C	-3.30170000	2.58590000	-1.13460000
H	-1.91870000	4.18700000	-1.56620000
C	-2.25390000	0.62760000	-0.22720000
C	-3.43210000	1.26750000	-0.65220000
H	-4.18520000	3.13460000	-1.47730000
C	-2.28430000	-0.69610000	0.23770000
C	-4.65950000	0.54250000	-0.55540000
C	-3.49960000	-1.39280000	0.36980000

C	-4.69320000	-0.73210000	-0.05370000
H	-5.58420000	1.03000000	-0.88070000
C	-3.43750000	-2.68350000	0.93200000
C	-1.04380000	-2.44150000	1.17710000
H	-5.64600000	-1.26490000	0.02930000
C	-2.21480000	-3.19050000	1.34380000
H	-4.35390000	-3.26850000	1.06260000
H	-0.07940000	-2.78960000	1.55830000
H	-2.14820000	-4.17110000	1.82240000
N	-1.02460000	1.23170000	-0.22120000
N	-1.07980000	-1.23130000	0.59240000
Ni	0.34090000	-0.00080000	0.43570000
Cl	0.37330000	-0.00440000	2.70100000

[Fe(bipy)(phen)Cl₂]⁺-Y

O	-6.99880000	1.43990000	1.92990000
O	5.70190000	-2.27060000	4.07560000
O	4.93200000	5.05430000	2.05690000
O	-1.45000000	2.14830000	-6.71910000
O	-4.35070000	-0.05050000	5.76730000
O	1.85840000	5.58630000	4.39620000
O	4.15980000	-0.51420000	-5.91360000
O	6.76860000	-2.20750000	-2.19880000
O	-5.38690000	2.92740000	-3.99760000
O	-5.03120000	-5.09330000	-1.35210000
O	-0.82160000	7.11310000	0.47120000
O	-5.15360000	5.15210000	-0.81900000

O	-7.24230000	-0.80120000	-1.24560000
O	2.23320000	6.62290000	-1.82360000
O	-3.17360000	-6.37390000	1.80010000
O	0.08130000	1.92850000	6.94650000
O	-2.78400000	-3.59360000	5.71710000
O	0.92280000	-7.01050000	-0.97640000
O	1.65270000	-1.58880000	6.79550000
O	0.84240000	-2.26430000	-6.90010000
O	1.89440000	3.96310000	-5.82900000
O	6.96270000	0.65670000	1.84530000
O	5.34260000	-5.09500000	0.02560000
O	-0.94930000	-5.81750000	-4.14950000
O	-8.39140000	1.46180000	-0.37190000
O	7.88530000	-1.75680000	2.58750000
O	3.47890000	7.14720000	2.92470000
O	0.91420000	2.58020000	-7.92190000
O	-3.21530000	-1.69080000	7.56750000
O	7.66850000	-3.75760000	-0.19970000
O	-7.12140000	4.02400000	-2.26890000
O	-3.96030000	-7.41620000	-0.55220000
O	1.60730000	8.23270000	0.23050000
O	-0.15350000	-0.34800000	8.34720000
O	-1.14070000	-7.89410000	-2.44870000
O	2.50360000	-0.45940000	-8.01330000
O	3.12490000	-3.00140000	-5.74550000
O	-3.87240000	5.01160000	-3.15060000
O	-6.93490000	-1.17660000	1.42220000

O	-0.42130000	6.77190000	-2.15550000
O	-5.27330000	-4.81020000	1.32110000
O	2.54240000	0.93760000	6.58010000
O	-4.95070000	-2.43220000	4.68960000
O	4.09540000	4.15770000	4.42140000
O	5.03760000	-4.28090000	-2.52060000
O	5.67960000	0.41550000	4.21760000
O	-0.71460000	4.46230000	-5.56730000
O	1.59650000	-6.03300000	-3.38720000
O	-6.88720000	3.56460000	0.37320000
O	6.36320000	-3.91990000	2.13720000
O	3.81310000	6.67200000	0.29240000
O	-0.10300000	0.08100000	-7.65470000
O	-2.30300000	0.82510000	7.20230000
O	0.80130000	7.15810000	2.56830000
O	5.21210000	-2.31950000	-4.29740000
O	7.69170000	-1.05970000	-0.02190000
O	-7.09270000	1.36110000	-2.74310000
O	-3.15540000	3.52550000	-5.22570000
O	-3.23780000	-6.26880000	-2.89900000
O	-6.44670000	-3.11690000	-0.32150000
O	-2.80790000	6.34650000	-1.11960000
O	1.09890000	5.69310000	-4.02640000
O	-4.02840000	-4.69300000	3.65640000
O	1.98280000	3.43030000	5.90020000
O	-0.74230000	-2.66960000	7.10770000
O	5.83860000	2.74690000	2.99620000

O	-1.38550000	-7.50030000	0.21850000
O	3.99170000	-1.05470000	5.65750000
O	3.16700000	1.81340000	-6.69230000
O	-6.06280000	-0.23490000	3.74800000
O	0.93630000	-4.45910000	-5.42160000
O	3.33400000	-5.98870000	-1.39930000
Si	-7.86710000	2.35930000	0.89070000
Si	6.97860000	-2.93160000	3.28660000
Si	4.50350000	6.60720000	1.77380000
Si	-0.43050000	1.66100000	-7.90450000
Si	-3.61810000	-0.14780000	7.22410000
Si	2.01840000	7.03380000	3.65650000
Si	4.49290000	-2.12050000	-5.74250000
Si	7.88030000	-2.36280000	-1.00370000
Si	-6.90600000	2.85810000	-3.38510000
Si	-4.41700000	4.18600000	-4.43500000
Si	-4.45450000	-6.54450000	-1.83980000
Si	0.34180000	7.97550000	1.23030000
Si	-6.71850000	4.67120000	-0.82100000
Si	-7.40190000	-1.84580000	0.02000000
Si	-8.04940000	0.55620000	-1.68140000
Si	-4.19730000	5.98490000	-1.87310000
Si	1.01730000	6.87980000	-2.91440000
Si	-4.51750000	-5.68530000	2.47320000
Si	1.69890000	2.26720000	7.00170000
Si	-2.34080000	-3.01680000	7.17890000
Si	-4.26420000	-3.87130000	5.03300000

Si	-0.86940000	1.06380000	7.95430000
Si	-6.03490000	-4.67500000	-0.10950000
Si	5.37790000	4.23870000	3.41980000
Si	6.04800000	-3.24210000	-3.25390000
Si	-0.39910000	-7.97230000	-0.99580000
Si	5.50210000	-0.97300000	5.06480000
Si	0.42070000	-1.79260000	7.84990000
Si	3.67580000	0.35220000	-7.21610000
Si	2.82430000	7.58240000	-0.64000000
Si	-5.55140000	-0.97350000	5.10020000
Si	0.99530000	-1.08120000	-8.01440000
Si	0.77230000	5.13270000	-5.50740000
Si	1.77690000	-3.55980000	-6.47560000
Si	2.27000000	3.10270000	-7.16560000
Si	2.13940000	-6.85310000	-2.08520000
Si	-1.48770000	7.29220000	-1.03290000
Si	-7.18530000	-0.05870000	2.59120000
Si	8.01010000	-0.55800000	1.49950000
Si	4.89620000	-5.54450000	-1.48790000
Si	6.63240000	1.36030000	3.29830000
Si	6.75780000	-4.71990000	0.76280000
Si	2.85430000	4.67380000	5.34430000
Si	0.61800000	-5.86590000	-4.68120000
Si	-1.92360000	-6.98850000	-3.55950000
Si	-1.93630000	3.66380000	-6.28440000
Si	2.98570000	-0.61100000	6.85540000
Si	-2.94420000	-7.57240000	0.71710000

O	-4.72260000	0.37170000	8.33270000
H	-4.36460000	0.76420000	9.14150000
O	-6.73970000	-1.25410000	6.20600000
H	-6.85840000	-0.56240000	6.87480000
O	-8.72760000	-0.19960000	3.16410000
H	-9.22840000	-0.91800000	2.74710000
O	-5.18610000	-4.68550000	6.13560000
H	-6.04320000	-4.26980000	6.31420000
O	-2.52840000	-4.14320000	8.36300000
H	-3.33360000	-4.67730000	8.28450000
O	-5.51010000	-6.89590000	2.99820000
H	-6.40950000	-6.84510000	2.64050000
O	-3.15830000	-9.05600000	1.39470000
H	-3.89420000	-9.11290000	2.02260000
O	0.13240000	-9.51610000	-0.76270000
H	-0.45110000	-10.09100000	-0.24740000
O	2.60350000	-8.33240000	-2.64510000
H	2.51060000	-9.06490000	-2.01660000
O	5.89370000	-6.75830000	-1.99540000
H	6.37910000	-6.54470000	-2.80770000
O	7.60580000	-6.07220000	1.13030000
H	7.54670000	-6.77900000	0.47070000
O	9.40030000	-2.42410000	-1.63910000
H	9.73990000	-1.58770000	-1.98570000
O	9.55910000	0.00940000	1.64110000
H	9.85730000	0.57200000	0.91290000
O	8.02690000	1.55620000	4.15890000

H	8.84520000	1.58170000	3.64050000
O	6.60310000	5.05130000	4.15850000
H	6.93090000	5.81870000	3.66560000
O	5.90560000	7.47020000	1.86000000
H	5.86260000	8.40320000	1.60730000
O	-0.31840000	9.43580000	1.61730000
H	-0.06270000	9.80000000	2.47680000
O	1.84970000	8.28890000	4.70570000
H	2.28470000	8.15940000	5.56220000
O	3.36920000	5.63380000	6.58330000
H	3.37430000	5.22140000	7.45930000
O	2.14150000	2.76450000	8.51990000
H	2.75680000	2.15000000	8.95140000
O	-1.19710000	1.89250000	9.33820000
H	-0.44100000	2.35850000	9.72480000
O	5.42070000	-2.63160000	-7.00730000
H	5.84600000	-1.91910000	-7.50990000
O	5.00320000	0.46140000	-8.18980000
H	4.98450000	1.13890000	-8.88060000
O	3.17620000	3.96950000	-8.22820000
H	2.88340000	4.88380000	-8.36000000
O	0.65650000	-1.62990000	-9.52680000
H	0.94300000	-2.54080000	-9.69350000
O	2.16950000	-4.35740000	-7.86690000
H	3.10660000	-4.58880000	-7.94790000
O	-1.25660000	1.93190000	-9.30850000
H	-0.91230000	1.51750000	-10.11210000

O	0.92840000	6.32720000	-6.63520000
H	1.06570000	7.21670000	-6.27750000
O	-2.47420000	4.48350000	-7.61330000
H	-2.41070000	3.98500000	-8.44410000
O	-5.23440000	5.25470000	-5.40220000
H	-4.97800000	5.21320000	-6.33660000
O	-8.06350000	3.01610000	-4.54520000
H	-8.09760000	3.88060000	-4.97930000
O	-9.16710000	3.01420000	1.64890000
H	-9.57590000	2.43490000	2.30910000
O	-9.45380000	0.05560000	-2.38130000
H	-9.89930000	0.70020000	-2.94930000
O	-8.99150000	-2.24300000	0.23910000
H	-9.52960000	-2.26000000	-0.56650000
O	-7.32090000	-5.70790000	-0.05600000
H	-7.53990000	-6.13490000	-0.89850000
O	-5.70610000	-7.33690000	-2.56280000
H	-5.47370000	-7.90240000	-3.31300000
O	-2.47430000	-7.97410000	-4.75670000
H	-1.81280000	-8.19420000	-5.43020000
O	0.79000000	-7.17340000	-5.67790000
H	1.46030000	-7.80410000	-5.37230000
O	-7.70630000	5.94910000	-0.52820000
H	-7.38720000	6.79080000	-0.88570000
O	-5.02170000	7.32230000	-2.38160000
H	-5.06900000	7.42040000	-3.34440000
O	-1.75890000	8.88250000	-1.36810000

H	-1.98800000	9.43860000	-0.60740000
O	1.02960000	-2.59170000	9.15670000
H	0.44190000	-3.24510000	9.56230000
O	3.64480000	-0.62420000	8.36590000
H	3.58160000	-1.46520000	8.84420000
O	6.65250000	-1.03350000	6.24910000
H	7.22410000	-0.25070000	6.27410000
O	7.91930000	-3.79150000	4.31620000
H	7.99380000	-3.41280000	5.20480000
O	7.17650000	-4.21440000	-3.97360000
H	8.02840000	-3.80740000	-4.18470000
O	3.73620000	8.80370000	-1.25980000
H	3.37810000	9.21550000	-2.06000000
O	1.18080000	8.36750000	-3.62830000
H	0.45380000	8.97270000	-3.41060000
C	1.63210000	-0.58440000	1.78400000
C	-0.35890000	-1.84710000	1.75520000
C	-0.19460000	-2.19660000	3.09260000
C	0.92900000	-1.73650000	3.78090000
C	1.84470000	-0.91970000	3.11900000
C	2.53580000	0.20350000	0.96700000
C	3.06710000	0.82600000	-1.25010000
C	4.16720000	1.54890000	-0.80930000
C	4.42740000	1.63500000	0.55670000
C	3.61640000	0.93650000	1.44970000
H	-1.20290000	-2.21450000	1.16660000
H	-0.93130000	-2.84540000	3.58290000

H	1.10910000	-2.01340000	4.83140000
H	2.74620000	-0.58770000	3.64710000
H	2.81560000	0.74780000	-2.31120000
H	4.79950000	2.05600000	-1.54220000
H	5.25210000	2.24340000	0.93990000
H	3.81710000	0.97720000	2.52710000
N	2.25110000	0.19540000	-0.37420000
N	0.53690000	-1.06220000	1.12020000
H	1.28470000	2.47350000	0.13930000
C	0.19110000	2.44030000	0.10910000
C	-0.57420000	3.58510000	0.38260000
C	-1.95590000	3.51930000	0.32140000
H	-0.08480000	4.52820000	0.65010000
C	-1.73260000	1.19200000	-0.30200000
C	-2.57230000	2.29710000	-0.02050000
H	-2.56640000	4.41270000	0.50750000
C	-2.28970000	-0.04330000	-0.73150000
C	-3.98170000	2.12750000	-0.11290000
C	-3.68260000	-0.15870000	-0.92740000
C	-4.50700000	0.94570000	-0.57330000
H	-4.63830000	2.95310000	0.19490000
C	-4.18100000	-1.36380000	-1.46590000
C	-1.93750000	-2.24090000	-1.48870000
H	-5.58410000	0.81390000	-0.68400000
C	-3.30600000	-2.41000000	-1.72240000
H	-5.25220000	-1.44700000	-1.69410000
H	-1.21080000	-3.02820000	-1.71440000

H	-3.67990000	-3.37220000	-2.09960000
N	-0.37960000	1.27110000	-0.22380000
N	-1.44280000	-1.07750000	-1.00760000
Fe	0.50740000	-0.64460000	-0.84500000
Cl	0.50280000	0.09940000	-2.88880000
Cl	1.28350000	-2.70750000	-1.22940000

[Ni(bipy)(phen)Cl]⁺-Y

O	-7.22680000	1.39420000	1.92100000
O	5.75100000	-2.23830000	4.09210000
O	5.01550000	5.08630000	2.11340000
O	-1.49210000	2.08580000	-6.76470000
O	-4.45080000	-0.03860000	5.71100000
O	1.90910000	5.59960000	4.41840000
O	4.15440000	-0.52850000	-6.01890000
O	6.77110000	-2.15880000	-2.21880000
O	-5.48160000	2.84200000	-3.99910000
O	-5.16460000	-5.10120000	-1.38590000
O	-0.83850000	7.02860000	0.48740000
O	-5.23630000	5.06940000	-0.80190000
O	-7.48260000	-0.84650000	-1.24360000
O	2.22670000	6.54780000	-1.82610000
O	-3.28000000	-6.36890000	1.76920000
O	0.07040000	1.95070000	6.90260000
O	-2.86350000	-3.59080000	5.65580000
O	0.87220000	-6.96670000	-0.98830000
O	1.64340000	-1.58290000	6.74660000
O	0.84090000	-2.29170000	-6.98530000

O	1.85550000	3.91470000	-5.88880000
O	7.06620000	0.70370000	1.90790000
O	5.32410000	-5.05110000	0.01680000
O	-0.99820000	-5.79100000	-4.18680000
O	-8.59950000	1.44560000	-0.39500000
O	7.93910000	-1.74670000	2.59330000
O	3.50240000	7.16720000	2.92420000
O	0.86330000	2.55420000	-7.99310000
O	-3.26060000	-1.67030000	7.49730000
O	7.66170000	-3.71920000	-0.21570000
O	-7.21500000	3.97890000	-2.28210000
O	-4.03510000	-7.40950000	-0.59540000
O	1.59260000	8.16850000	0.21770000
O	-0.19840000	-0.34230000	8.27260000
O	-1.19510000	-7.85540000	-2.47020000
O	2.48970000	-0.48780000	-8.12110000
O	3.12240000	-3.01160000	-5.80240000
O	-3.92970000	4.90500000	-3.13260000
O	-7.16260000	-1.22410000	1.42080000
O	-0.44920000	6.66790000	-2.14360000
O	-5.41900000	-4.83910000	1.29130000
O	2.54710000	0.94790000	6.58410000
O	-5.06970000	-2.43710000	4.66830000
O	4.17430000	4.19810000	4.47970000
O	5.02250000	-4.23560000	-2.53860000
O	5.77280000	0.45110000	4.27450000
O	-0.76350000	4.38630000	-5.57500000

O	1.55680000	-6.00500000	-3.40790000
O	-7.05050000	3.51880000	0.36820000
O	6.37930000	-3.88920000	2.13600000
O	3.84120000	6.64940000	0.29800000
O	-0.12400000	0.04250000	-7.74210000
O	-2.35280000	0.85110000	7.12850000
O	0.81300000	7.12980000	2.57740000
O	5.20870000	-2.29580000	-4.34560000
O	7.73450000	-1.01530000	-0.01470000
O	-7.26370000	1.31070000	-2.75270000
O	-3.21380000	3.42620000	-5.22680000
O	-3.31640000	-6.24720000	-2.93980000
O	-6.65330000	-3.16150000	-0.33110000
O	-2.84890000	6.23670000	-1.09250000
O	1.07020000	5.60810000	-4.03390000
O	-4.15240000	-4.70110000	3.62420000
O	2.02210000	3.45180000	5.91940000
O	-0.78390000	-2.66700000	7.03180000
O	5.96390000	2.79880000	3.09420000
O	-1.45640000	-7.47360000	0.19690000
O	4.02870000	-1.02990000	5.66890000
O	3.14230000	1.78780000	-6.80120000
O	-6.24390000	-0.26250000	3.73360000
O	0.91530000	-4.45860000	-5.47030000
O	3.29990000	-5.94260000	-1.41120000
Si	-8.07420000	2.33890000	0.87800000
Si	7.01650000	-2.91760000	3.29150000

Si	4.54520000	6.62590000	1.78330000
Si	-0.47880000	1.62270000	-7.97280000
Si	-3.67530000	-0.12440000	7.15570000
Si	2.04030000	7.04390000	3.66210000
Si	4.49720000	-2.13150000	-5.80590000
Si	7.88770000	-2.31940000	-1.01660000
Si	-7.01620000	2.80350000	-3.39990000
Si	-4.47740000	4.08650000	-4.42700000
Si	-4.54290000	-6.53930000	-1.88510000
Si	0.32750000	7.91560000	1.22730000
Si	-6.82000000	4.62370000	-0.82470000
Si	-7.63800000	-1.90650000	0.01910000
Si	-8.26210000	0.52570000	-1.70350000
Si	-4.24620000	5.88250000	-1.85010000
Si	0.99070000	6.78650000	-2.90920000
Si	-4.63720000	-5.70110000	2.44230000
Si	1.69510000	2.27710000	6.99940000
Si	-2.38960000	-3.00540000	7.10950000
Si	-4.36180000	-3.87210000	5.00320000
Si	-0.91140000	1.07890000	7.88550000
Si	-6.19000000	-4.71400000	-0.13980000
Si	5.47690000	4.29600000	3.49640000
Si	6.04200000	-3.20050000	-3.27570000
Si	-0.45290000	-7.93390000	-1.01180000
Si	5.55560000	-0.95120000	5.10080000
Si	0.38390000	-1.79110000	7.77850000
Si	3.66740000	0.33070000	-7.33130000

Si	2.82300000	7.52570000	-0.64990000
Si	-5.67190000	-0.97640000	5.08210000
Si	0.97880000	-1.11630000	-8.11450000
Si	0.72440000	5.06790000	-5.52320000
Si	1.77310000	-3.58250000	-6.53380000
Si	2.22880000	3.07960000	-7.24750000
Si	2.09860000	-6.81100000	-2.09310000
Si	-1.52000000	7.18330000	-1.01690000
Si	-7.40140000	-0.10380000	2.59930000
Si	8.08250000	-0.53330000	1.51680000
Si	4.86770000	-5.49800000	-1.49860000
Si	6.75430000	1.39910000	3.37850000
Si	6.74960000	-4.68600000	0.75010000
Si	2.90530000	4.70060000	5.38180000
Si	0.57870000	-5.85160000	-4.70790000
Si	-1.98370000	-6.95840000	-3.59140000
Si	-1.99430000	3.58960000	-6.29190000
Si	2.98320000	-0.60750000	6.84740000
Si	-3.02160000	-7.56310000	0.68330000
O	-4.76950000	0.39790000	8.28080000
H	-4.40860000	0.79580000	9.08900000
O	-6.82760000	-1.25700000	6.22980000
H	-6.93980000	-0.56200000	6.90070000
O	-8.93880000	-0.25020000	3.19870000
H	-9.45140000	-0.97350000	2.79750000
O	-5.25710000	-4.68560000	6.13630000
H	-6.11600000	-4.27770000	6.33900000

O	-2.56590000	-4.12890000	8.30560000
H	-3.37340000	-4.66740000	8.24720000
O	-5.61020000	-6.93430000	2.96900000
H	-6.51640000	-6.90600000	2.61790000
O	-3.21890000	-9.05800000	1.35420000
H	-3.95840000	-9.13810000	1.97980000
O	0.09000000	-9.47900000	-0.77700000
H	-0.48760000	-10.06690000	-0.26440000
O	2.56440000	-8.29920000	-2.64450000
H	2.47280000	-9.03570000	-2.01580000
O	5.86400000	-6.72190000	-2.00330000
H	6.35690000	-6.52080000	-2.81790000
O	7.59040000	-6.05270000	1.10520000
H	7.52500000	-6.76270000	0.44530000
O	9.40750000	-2.39560000	-1.66490000
H	9.76260000	-1.56310000	-2.01330000
O	9.64910000	0.00260000	1.64930000
H	9.95890000	0.57220000	0.92760000
O	8.15150000	1.56300000	4.25140000
H	8.98030000	1.58660000	3.74410000
O	6.68230000	5.13820000	4.24630000
H	7.01100000	5.91110000	3.75620000
O	5.93270000	7.52270000	1.85330000
H	5.87850000	8.45270000	1.58190000
O	-0.35320000	9.37780000	1.59310000
H	-0.10250000	9.76910000	2.44540000
O	1.84930000	8.31730000	4.69360000

H	2.28630000	8.21850000	5.55650000
O	3.39400000	5.67280000	6.62900000
H	3.39210000	5.27070000	7.51300000
O	2.10030000	2.75660000	8.53970000
H	2.70180000	2.13710000	8.99010000
O	-1.25240000	1.90100000	9.27660000
H	-0.50200000	2.36480000	9.68360000
O	5.43690000	-2.67100000	-7.05730000
H	5.86970000	-1.97360000	-7.58050000
O	4.99560000	0.44300000	-8.31190000
H	4.98000000	1.11760000	-9.00950000
O	3.11860000	3.97080000	-8.31210000
H	2.82290000	4.88850000	-8.43460000
O	0.63300000	-1.67170000	-9.62860000
H	0.92040000	-2.58380000	-9.80440000
O	2.17390000	-4.40710000	-7.91360000
H	3.11190000	-4.64790000	-7.99280000
O	-1.32750000	1.90600000	-9.36680000
H	-0.99490000	1.50860000	-10.18710000
O	0.85680000	6.28660000	-6.63620000
H	0.99370000	7.17720000	-6.27320000
O	-2.55490000	4.43180000	-7.60420000
H	-2.49920000	3.95540000	-8.45210000
O	-5.28030000	5.17300000	-5.39610000
H	-5.02540000	5.14000000	-6.33430000
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O	-9.37230000	3.02500000	1.62290000
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H	-10.10400000	0.69630000	-3.00180000
O	-9.22730000	-2.32050000	0.24660000
H	-9.77830000	-2.34400000	-0.55380000
O	-7.45150000	-5.78540000	-0.09350000
H	-7.66720000	-6.21740000	-0.93790000
O	-5.78080000	-7.35240000	-2.62010000
H	-5.54270000	-7.91420000	-3.37510000
O	-2.52630000	-7.95510000	-4.79050000
H	-1.86470000	-8.18190000	-5.46590000
O	0.74900000	-7.17790000	-5.68920000
H	1.41480000	-7.81540000	-5.37820000
O	-7.78060000	5.93260000	-0.54900000
H	-7.43880000	6.77180000	-0.89950000
O	-5.05150000	7.23610000	-2.36450000
H	-5.09750000	7.34320000	-3.32940000
O	-1.80070000	8.77500000	-1.36500000
H	-2.03000000	9.34540000	-0.61120000
O	0.98060000	-2.59840000	9.09240000
H	0.39230000	-3.25620000	9.49680000
O	3.60420000	-0.64270000	8.37950000
H	3.53230000	-1.48950000	8.85230000
O	6.69370000	-1.04350000	6.30280000
H	7.28080000	-0.26980000	6.35470000
O	7.95200000	-3.80610000	4.31030000

H	8.04410000	-3.44340000	5.20710000
O	7.17450000	-4.18600000	-3.98350000
H	8.03360000	-3.79010000	-4.19950000
O	3.71580000	8.75690000	-1.29200000
H	3.35340000	9.16030000	-2.09800000
O	1.13580000	8.28090000	-3.62620000
H	0.40680000	8.88820000	-3.40760000
C	2.51510000	0.82620000	-0.45810000
C	2.25830000	0.32280000	1.83500000
C	3.41440000	1.03490000	2.13730000
C	4.12640000	1.65450000	1.11110000
C	3.67530000	1.53880000	-0.19830000
C	1.93870000	0.63910000	-1.76970000
C	0.13400000	-0.32240000	-2.94210000
C	0.63240000	0.14630000	-4.15320000
C	1.81870000	0.87900000	-4.15280000
C	2.47420000	1.12590000	-2.95230000
H	1.68010000	-0.21510000	2.59310000
H	3.75750000	1.08360000	3.17850000
H	5.02780000	2.23170000	1.33540000
H	4.22800000	2.01050000	-1.01390000
H	-0.78430000	-0.91180000	-2.90030000
H	0.08340000	-0.07450000	-5.07820000
H	2.26920000	1.27030000	-5.07020000
H	3.40640000	1.69520000	-2.94780000
N	0.77720000	-0.08330000	-1.77730000
N	1.81720000	0.23180000	0.56030000

H	0.19570000	2.34470000	1.12970000
C	-0.79840000	2.11520000	0.73410000
C	-1.83720000	3.06320000	0.74530000
C	-3.08950000	2.73070000	0.25120000
H	-1.64250000	4.06370000	1.14840000
C	-2.21670000	0.54180000	-0.25090000
C	-3.30690000	1.43420000	-0.26670000
H	-3.90990000	3.46570000	0.26010000
C	-2.34340000	-0.77420000	-0.74790000
C	-4.53090000	0.96360000	-0.82800000
C	-3.55830000	-1.21990000	-1.29850000
C	-4.64800000	-0.30100000	-1.33910000
H	-5.38650000	1.64880000	-0.84280000
C	-3.59830000	-2.54350000	-1.78340000
C	-1.28250000	-2.83360000	-1.14090000
H	-5.60050000	-0.63350000	-1.76960000
C	-2.46070000	-3.33240000	-1.71460000
H	-4.52490000	-2.96410000	-2.19240000
H	-0.38110000	-3.44520000	-1.03240000
H	-2.47980000	-4.34480000	-2.13450000
N	-0.99590000	0.88940000	0.23600000
N	-1.23860000	-1.57310000	-0.68390000
Ni	0.24890000	-0.64270000	-0.02390000
Cl	0.02710000	-1.79470000	1.78950000