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Volume 22, Number 9, 1 May 2003

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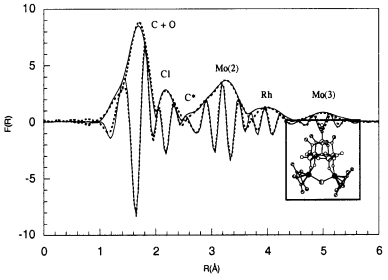

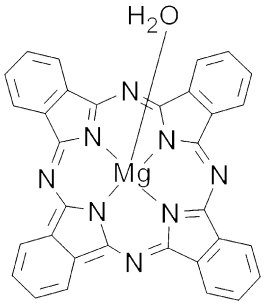

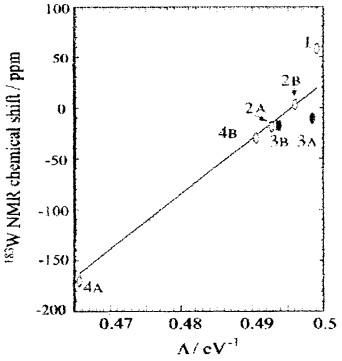

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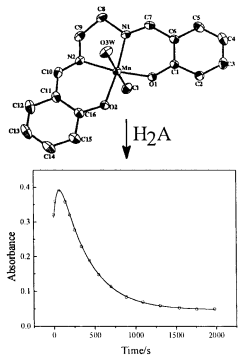

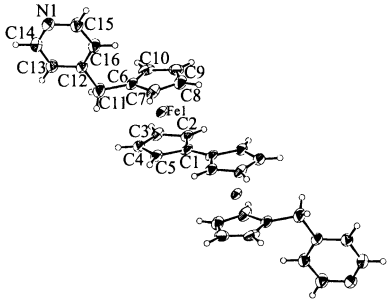

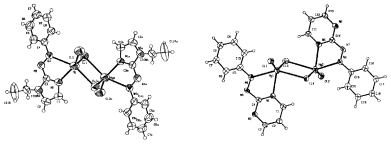

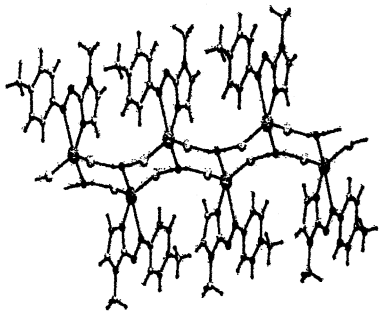

Donocadh P. Lydon, Trevor R. Spalding, John F. Gallagher

Polyhedron 22 (2003) 1281

Substitution reactions of rhenium–chloride bonds in $[Re_2(DMAA)_4Cl_2]$, (DMAA = 2′,6′-dimethylacetanilido); synthesis and characterisation of $[Re_2(DMAA)_4X_2]$ (X = NCO, NCS, N_3) and $[Re_2(DMAA)_4L_n][SbF_6]_2$ ($n = 2$, L = pyridine; $n = 1$, L = 4,4′-bipyridine)

Substitution of chloride ligands in $[Re_2(DMAA)_4Cl_2]$ (**1**) affords $[Re_2(DMAA)_4X_2]$ with $X = [N_3]^-$, **2**, $[SCN]^-$; **3**, or $[NCO]^-$, while the reaction of **1** and $Ag[SbF_6]$ in air affords $[Re_2(DMAA)_4(H_2O)_2][SbF_6]_2 \cdot H_2O$. The aquo ligands in this molecule can be displaced by pyridine or 4,4′-bipyridine $[Re_2(DMAA)_4(pyridine)_2][SbF_6]_2$ (**6**) (68%), and $[Re_2(DMAA)_4(4,4'\text{-bipyridine})][SbF_6]_2$.