

An evidence of mixed-valence electron transfer in the inverted Marcus region

Diaz, Carlos

Arancibia, Alejandra

The rates electron transfer k_{et} for the mixed-valence complexes $[Cd(dppe)Fe-CN-ML_n]^{+2}$, $ML_n = Cp(dppe)Fe$, $Mn(CO)_2dppmP(OPh)_3$ and other cyanide bridged complexes were estimated from the intervalence transition parameters. The k_{et} values correlate inversely with the free-energy driving force ($-\Delta G^\circ$) estimated from the half-wave potentials. The results can be interpreted as an evidence of the inverted region of Marcus in mixed-valence complexes.