

Group 10: Palladium and Platinum (& Darmstadtium)

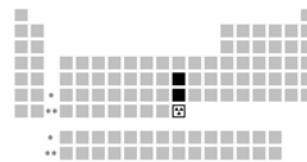
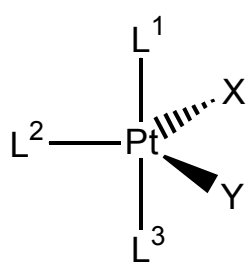
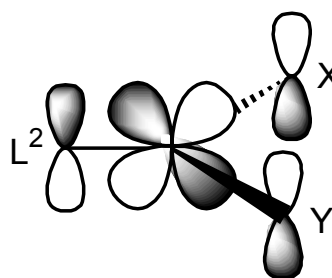


Table 10.1 Trans-influence of L on M-L'; IR and NMR data for *trans*-[PtXH(PEt₃)₂]

	CN ⁻	I ⁻	Br ⁻	Cl ⁻
ν (Pt-H) / cm ⁻¹	2041	2156	2178	2183
δ (¹ H for Pt-H)	-7.8	-12.7	-15.6	-16.8



trigonal bipyramidal transition state



π -bonding in the trigonal plane

Figure 10.1 π -bonding in the trigonal bipyramidal transition state

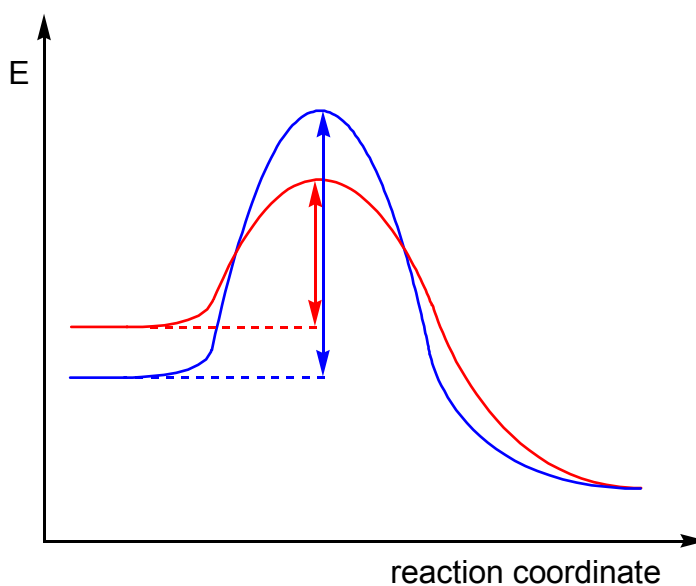


Figure 10.2 Two reaction profiles. The red profile represents a complex which has been labilised both by destabilization of the ground state and stabilization of the transition state.