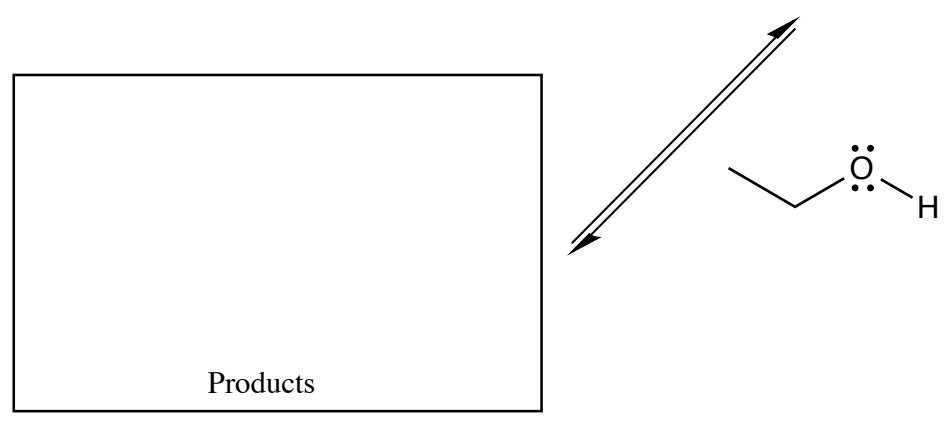
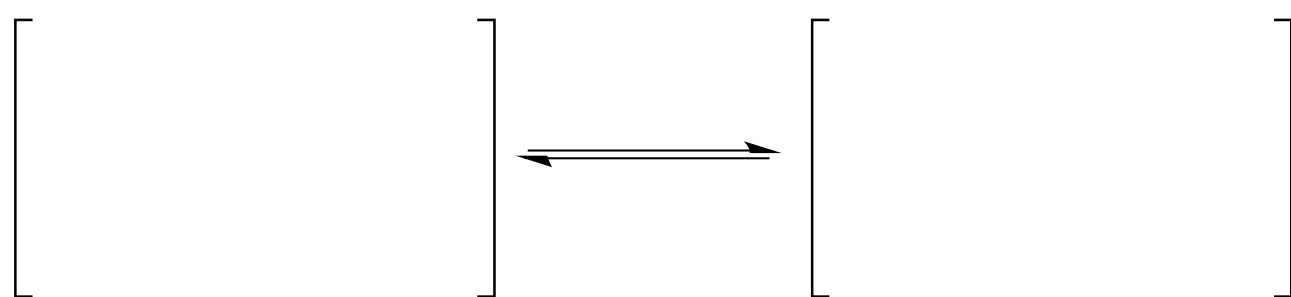
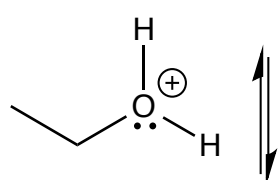
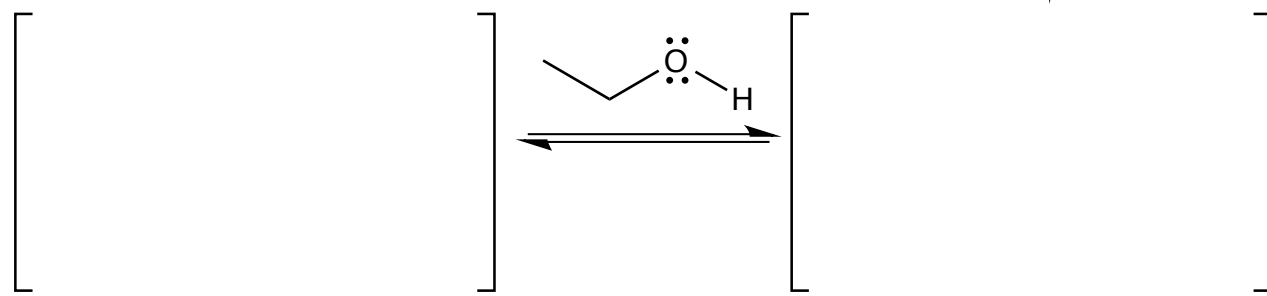
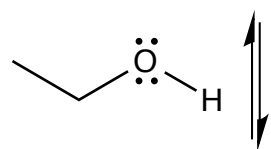
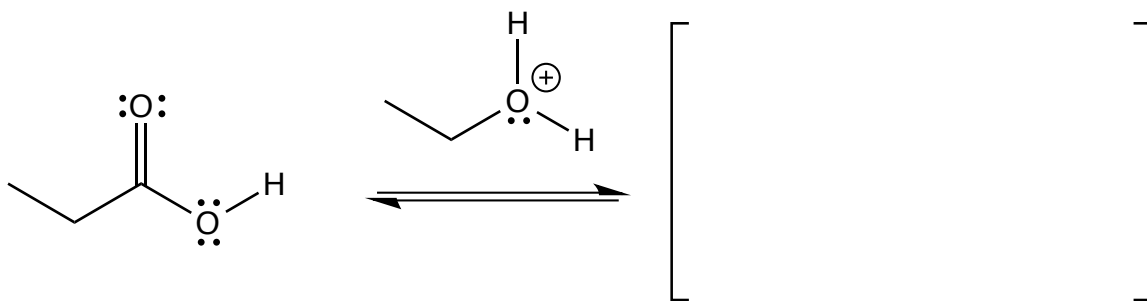
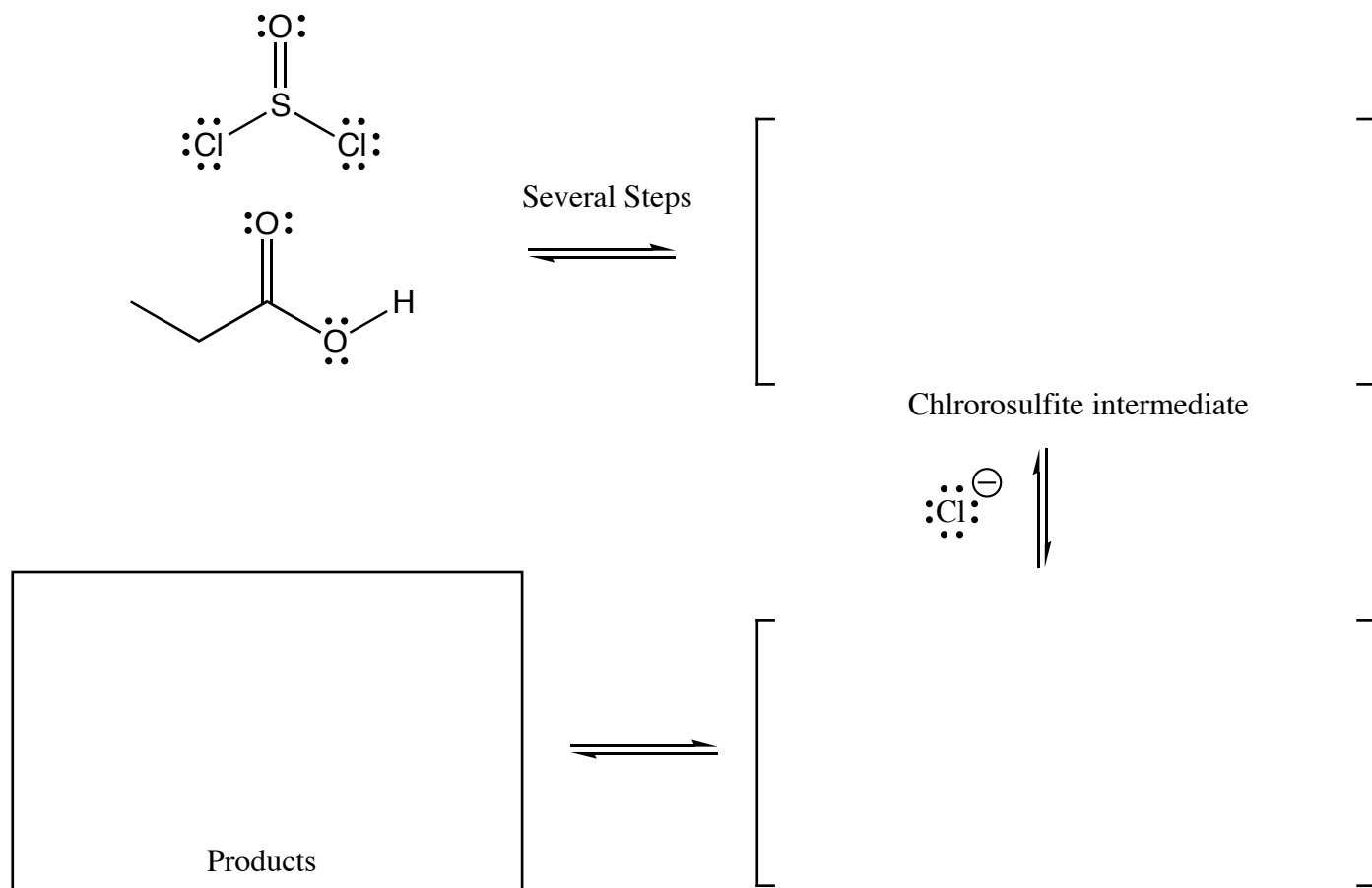


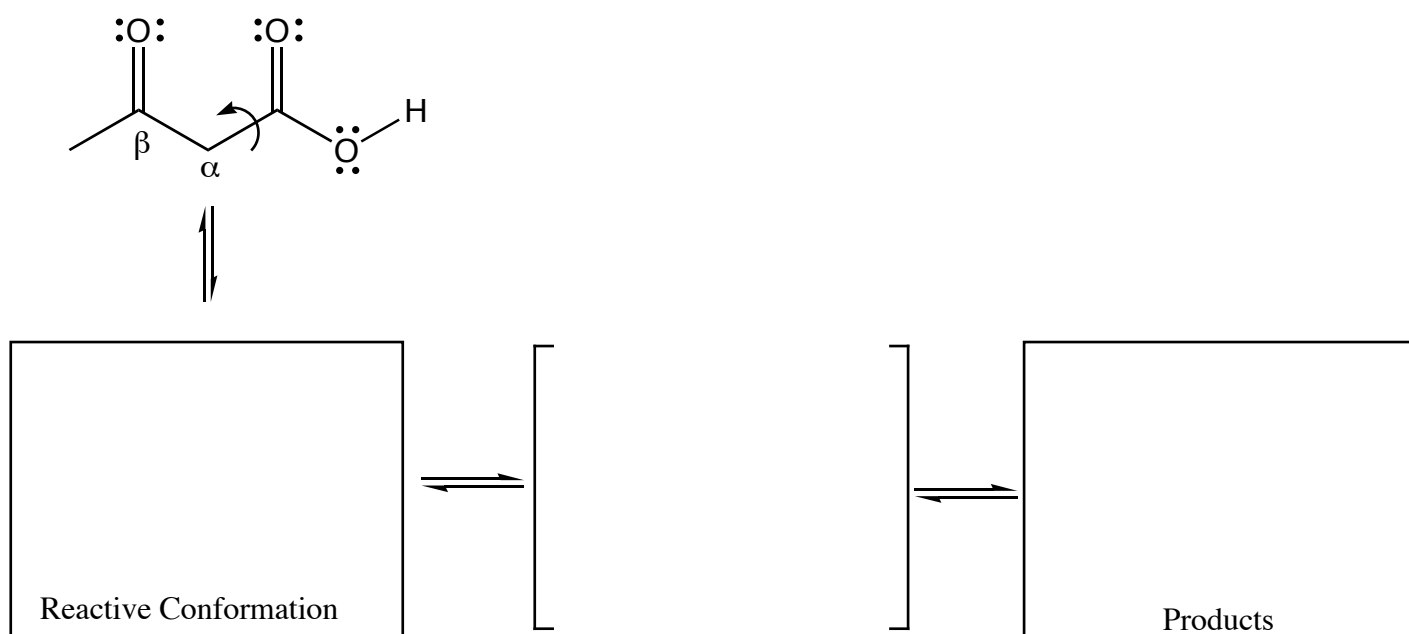
Fischer Esterification



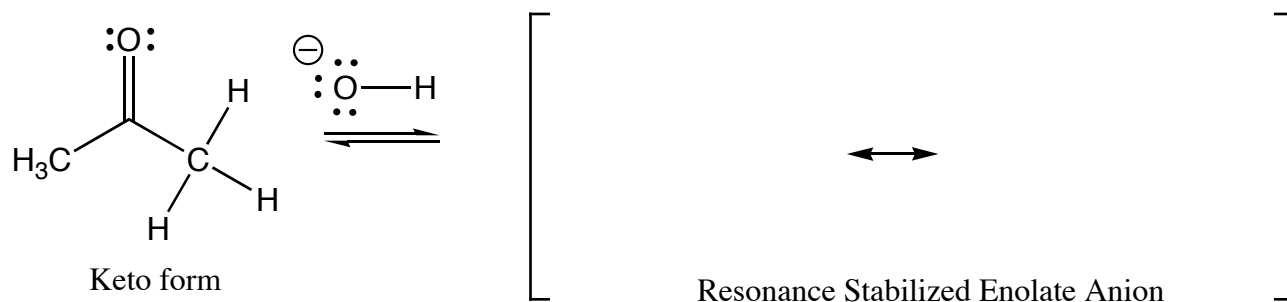
Reaction with Thionyl Chloride



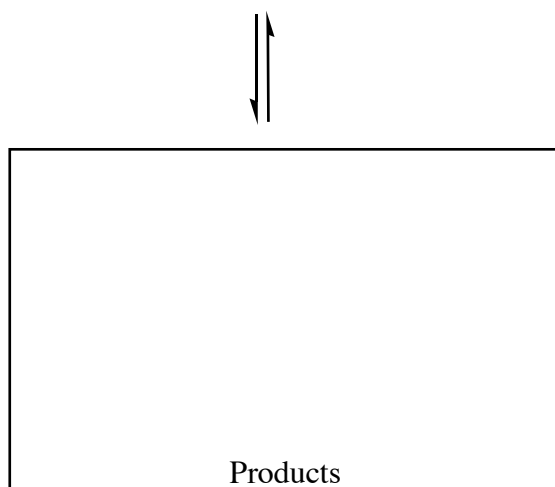
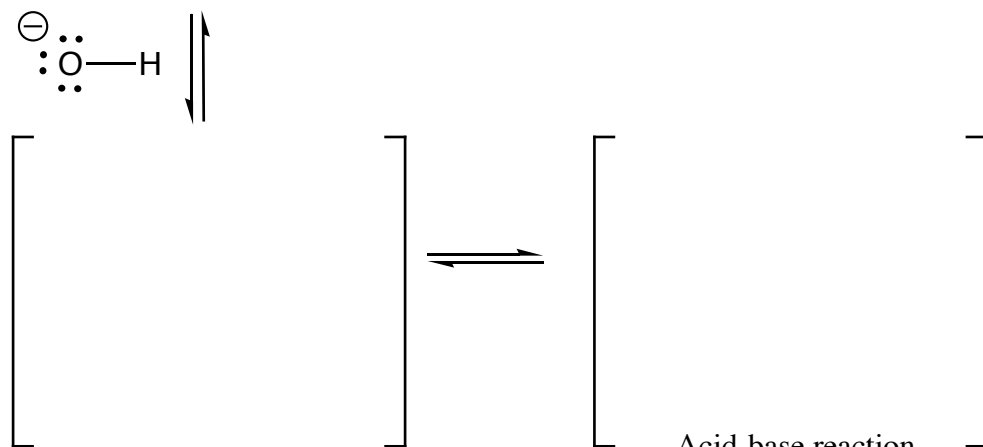
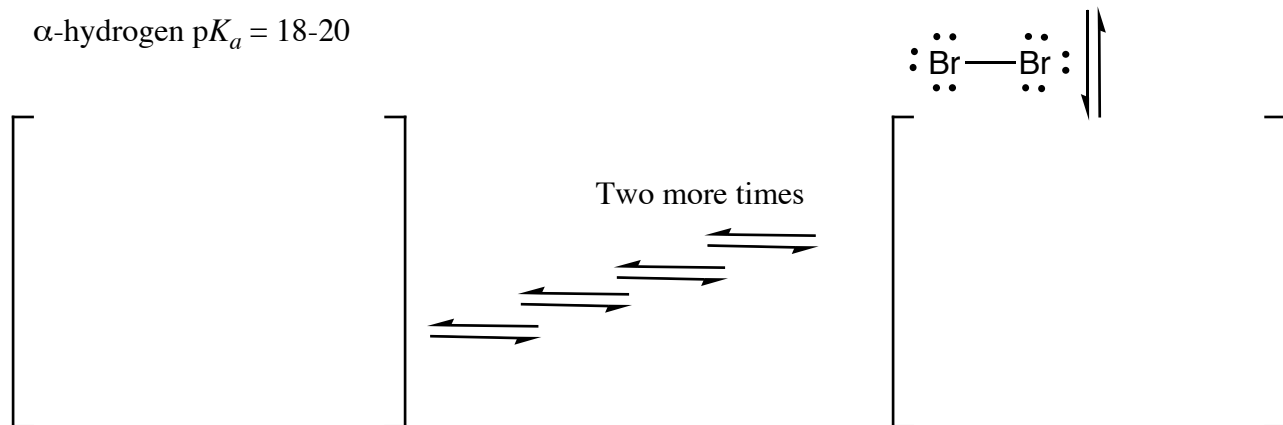
Decarboxylation of a β -Keto Acid

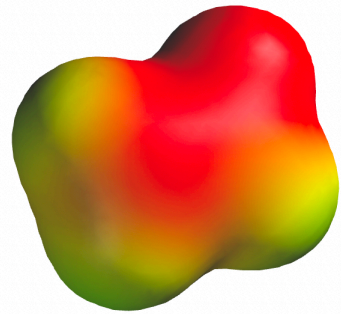
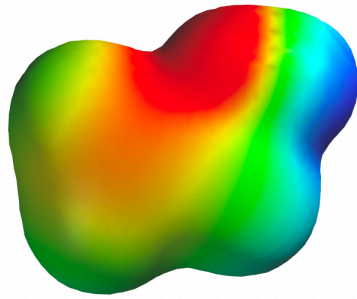
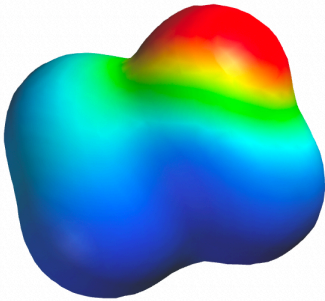
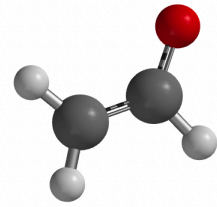
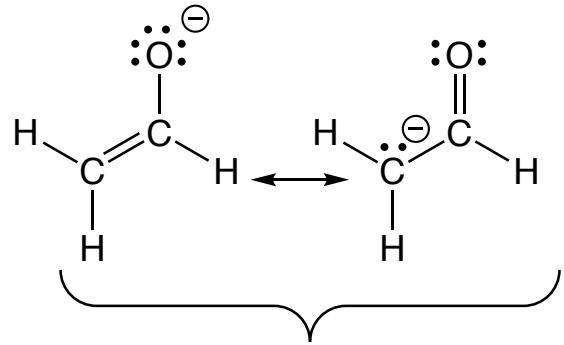
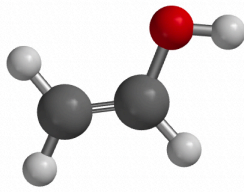
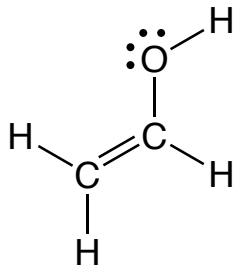
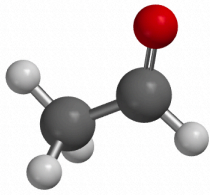
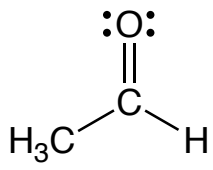


The Haloform Reaction



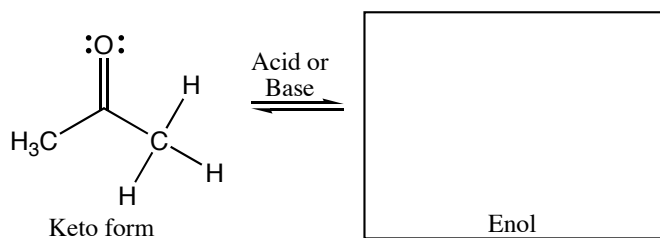
α -hydrogen $\text{p}K_a = 18-20$



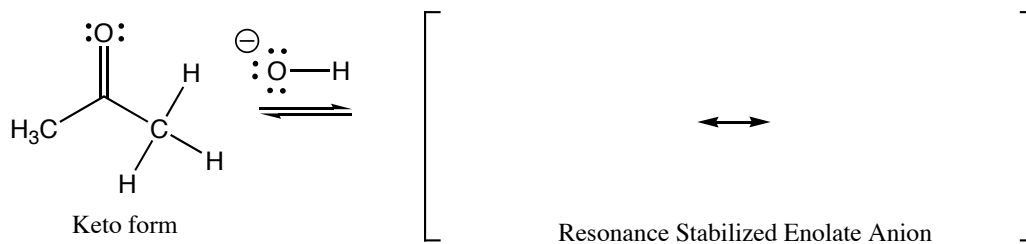


Keto-Enol Tautomerization vs. Enolate Resonance

Keto-Enol Tautomerization

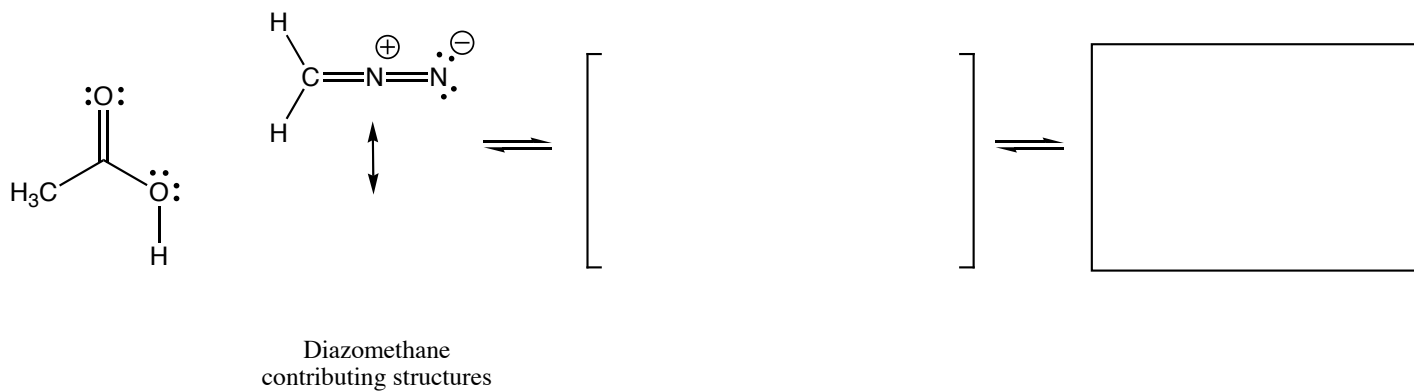


Enolate Resonance

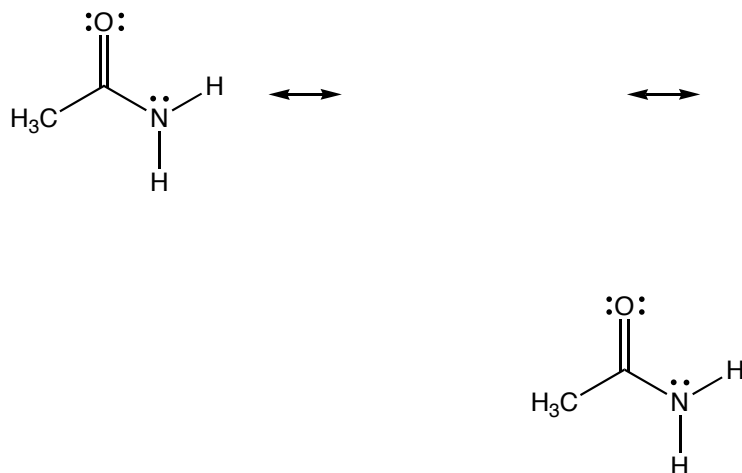


α -hydrogen $\text{p}K_a = 18\text{-}20$

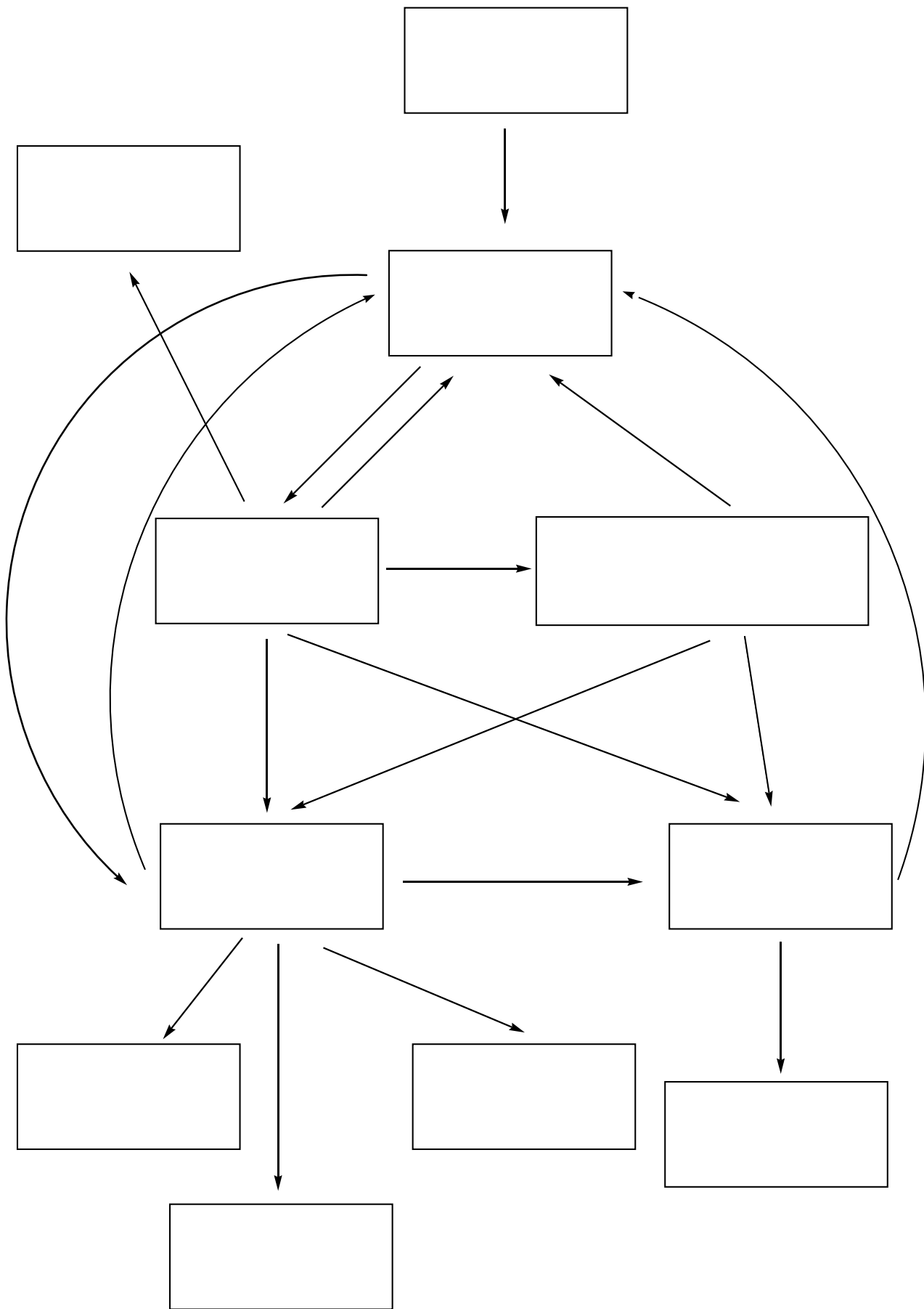
Diazomethane reaction



Amide Resonance VERY IMPORTANT!!!!!!



Interconversion of Carboxylic Acid Derivatives



Acid Catalyzed Anhydride Hydrolysis

