Electrophilic Aromatic Substitution Reactions

In General:



Step 2



Types of Electrophilic Aromatic Substitution Reactions



1- Halogenation: Reaction with halogens (X2) such as Cl2 or Br2 in presence of the catalyst AlCl3 or FeBr3



2- Alkylation:

A- Reaction with alkylhalides (RX) such as RCl or RBr in presence of the catalyst AlCl3 or FeBr3



B- Reaction with alkenes in presence of acid catalyst such as H2SO4



3- Nitration: Reaction with HNO3 in presence of H2SO4 as catalyst



4- Sulfonation: Reaction with SO3 in presence of H2SO4 as catalyst to give benzenesulfonic acid



5- Acylation: Reaction with Acyl Halide in presence of AlCl3 as catalyst to give aromatic ketones

