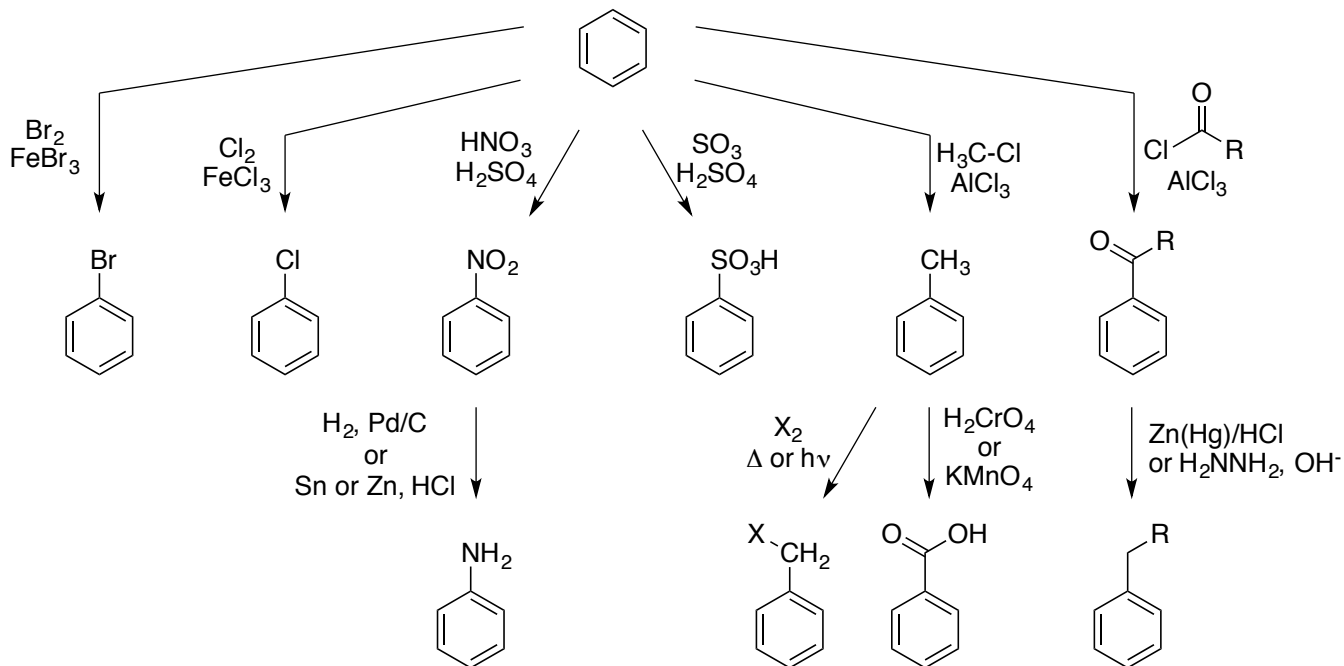
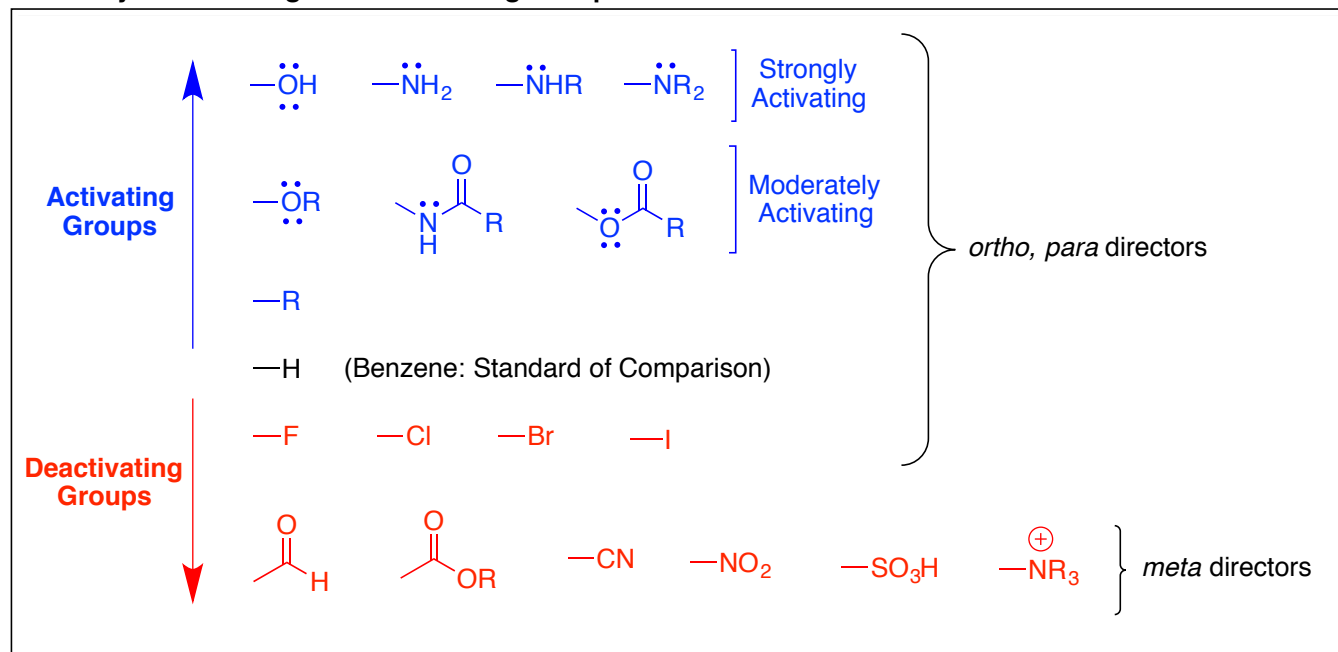


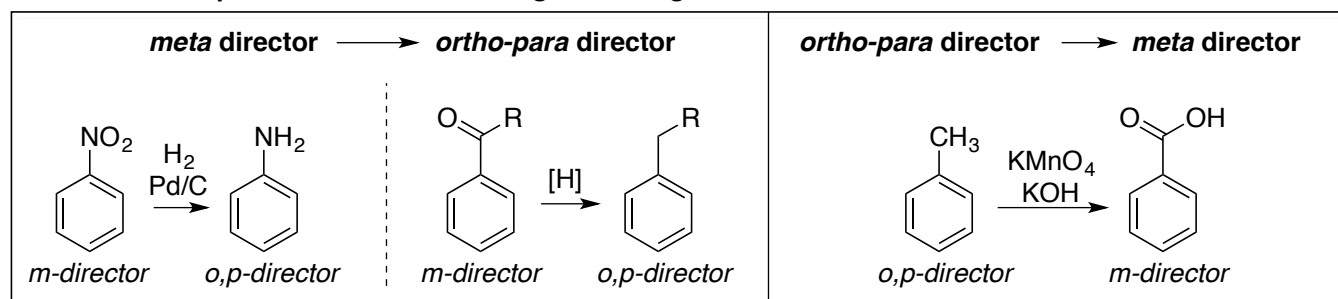
Electrophilic Aromatic Substitution Reactions



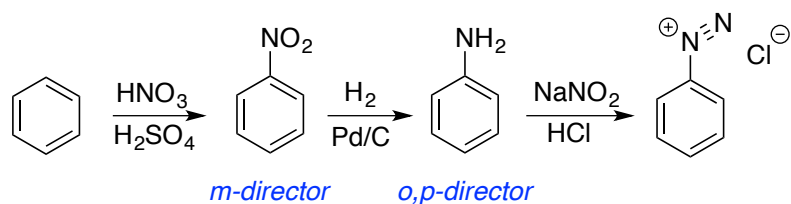
Summary of Activating and Deactivating Groups



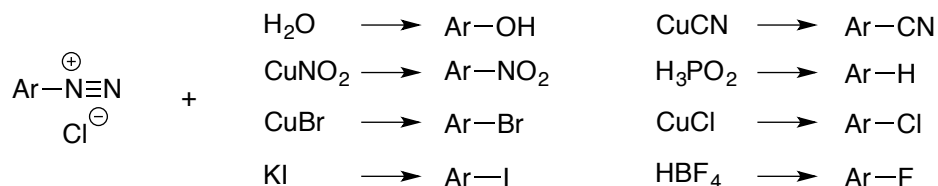
Functional Group Conversions that Change Directing Effects



Arene Diazonium Ion Preparation

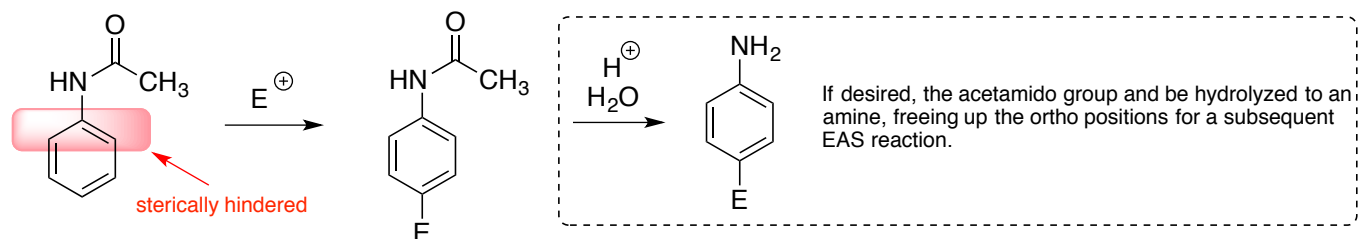


Arene diazonium ions can undergo many useful reactions:

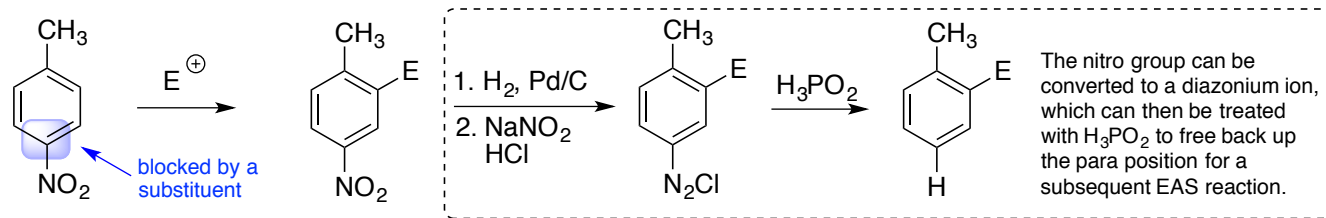


Synthetic Strategies

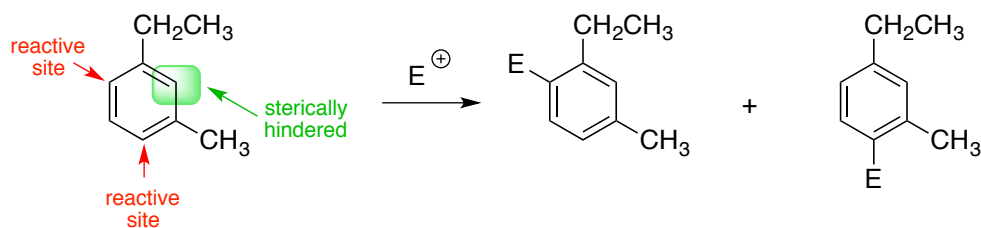
The ortho positions can be temporarily blocked by the acetamido (-NHCOCH₃) group.



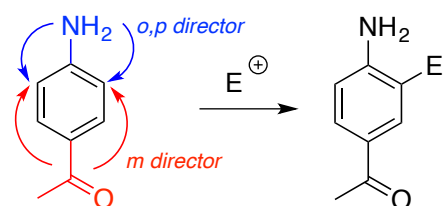
The para position can be temporarily blocked by a nitro group.



Substitution does not generally occur between two meta substituents.



If two substituents reinforce one another, the E⁺ is directed to that position



If two substituents direct to different positions, the more powerful activator wins.

