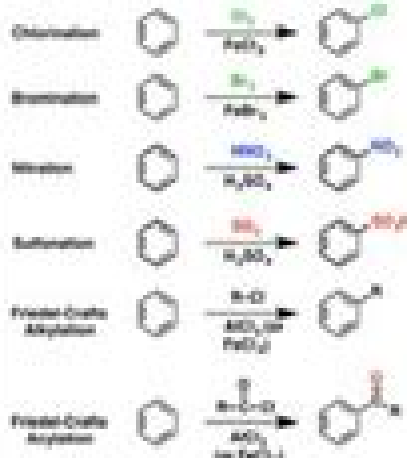


Six reactions for electrophilic aromatic substitution



Electrophilic aromatic substitution: Mechanism

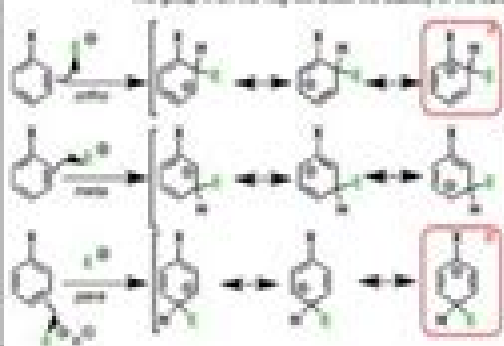


Substituents that stabilize this carbocation (relative to H) are called **activating groups**.



What if there's already a group on the ring?

The group R on the ring will affect the stability of the carbocation



Activating vs. Deactivating: What does it mean?

An activating group is a group that causes electrophilic aromatic substitution to be **faster, relative to H**.

A deactivating group is a group that causes electrophilic aromatic substitution to be **slower, relative to H**.

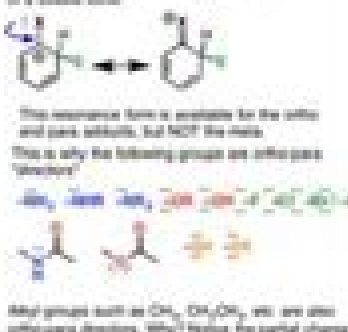


Question 1: Ortho or para, what product dominates?



Resonance forms A and B are KEY

If R has an electron pair, these resonance forms will be stabilized through formation of a double bond.



May groups such as CH₃, CH₂CH₃, etc. are also ortho-para directors. Why? Induce the partial charge

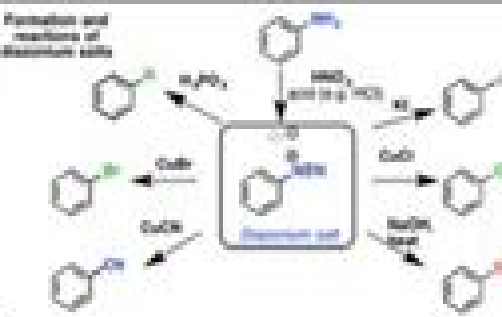
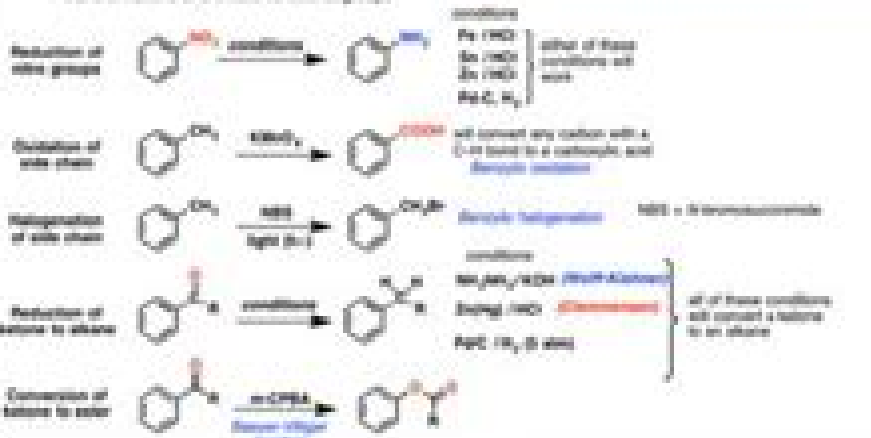
The partial negative charge on the carbon will stabilize an adjacent positive charge



This is why the following groups are meta directors (although "ortho-para director" is more appropriate)



Transformations of aromatic functional groups



Question 2: When two groups "share" is different carbons what product dominates?



Strongly activating o,p Moderately activating o,p Deactivating m directors



Moderately deactivating meta directors Strongly deactivating meta directors



Comments, Mistakes, Suggestions?

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