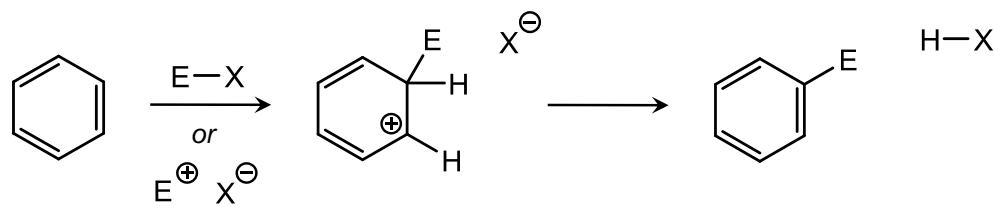
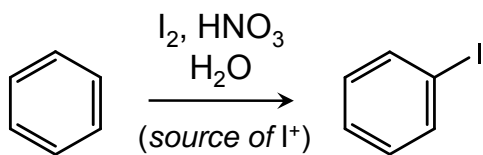
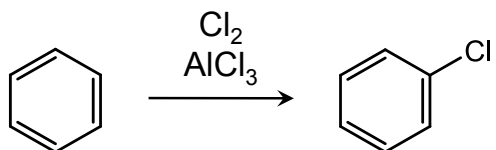
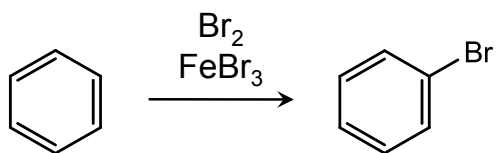


Electrophilic Aromatic Substitution

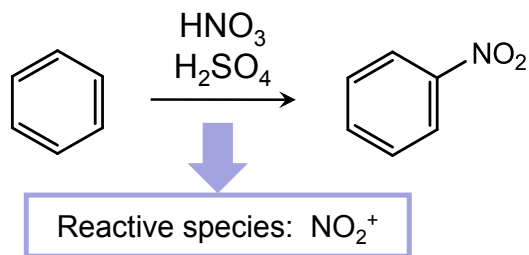
General scheme:



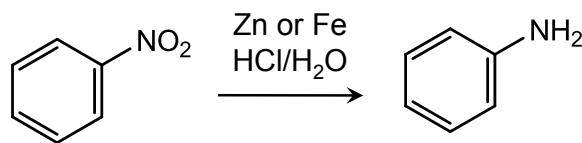
Electrophilic Aromatic Substitution: Halogenation



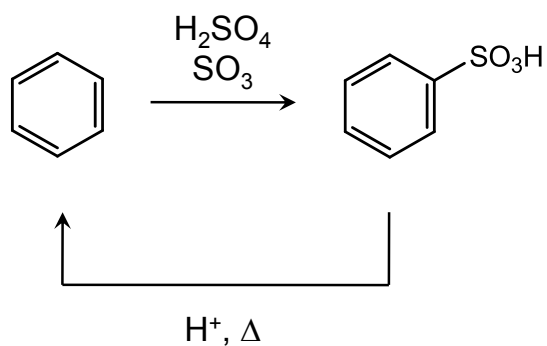
Electrophilic Aromatic Substitution: Nitration



Conveniently coupled with
metal reduction to yield
aromatic amines:

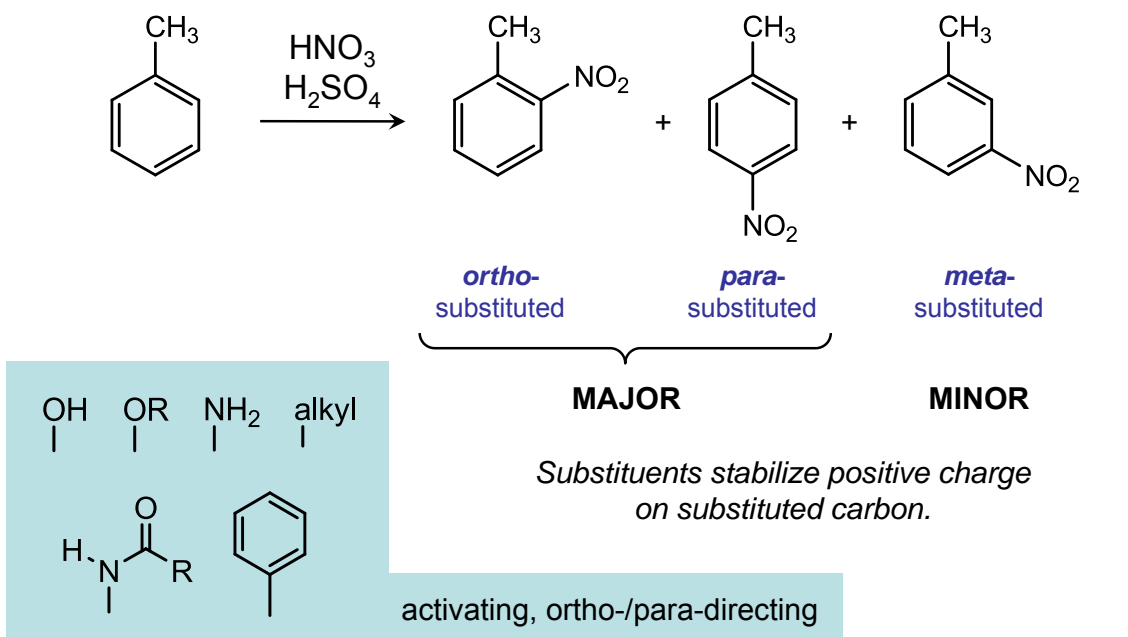


Electrophilic Aromatic Substitution: Sulfonation

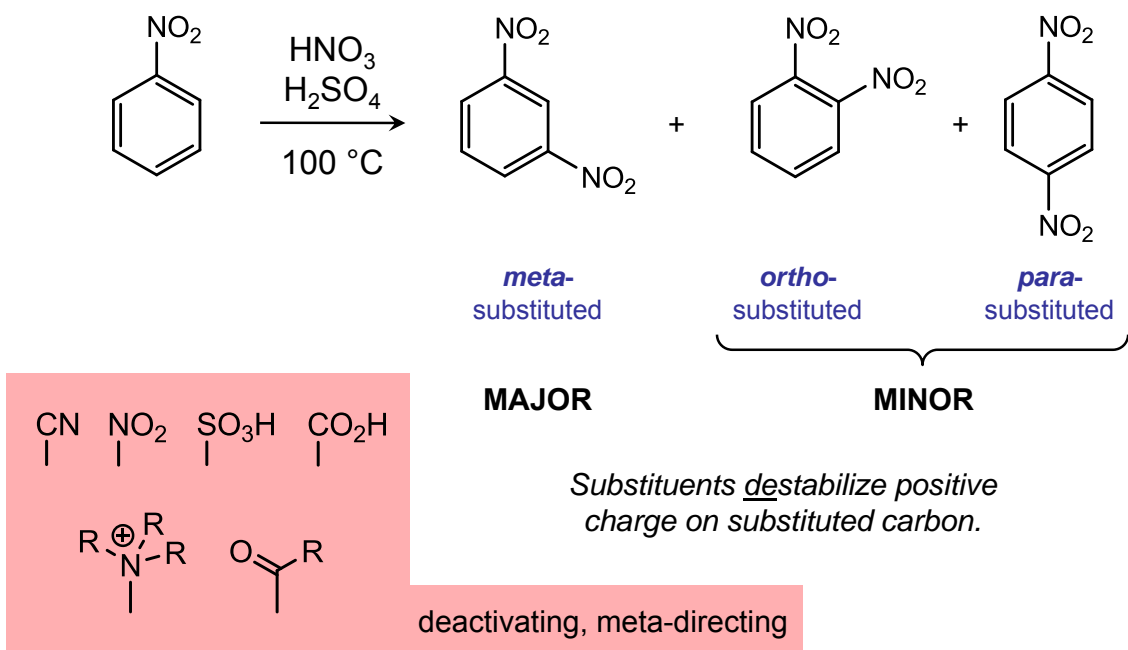


Electrophilic aromatic sulfonation can be reversed.

Substituent Effects on Electrophilic Aromatic Substitution



Electron-Withdrawing Groups Are Meta-Directing and Deactivating



Substituent Effects on Electrophilic Aromatic Substitution

