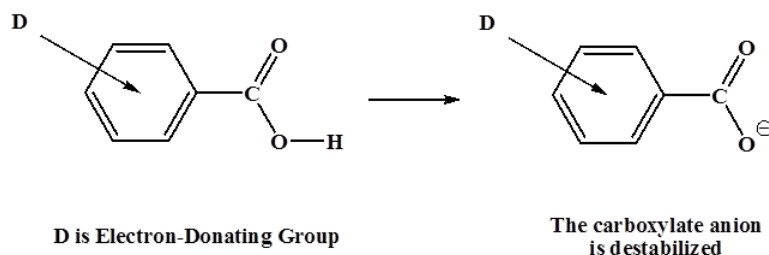


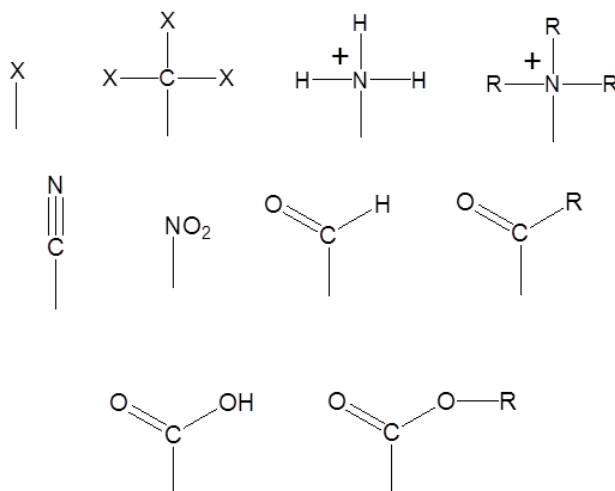
## 17.2: Substituted Benzoic Acids

### Electron-withdrawing groups

The conjugate base of benzoic acid is destabilized by electron-donating groups. This makes the acid less acidic

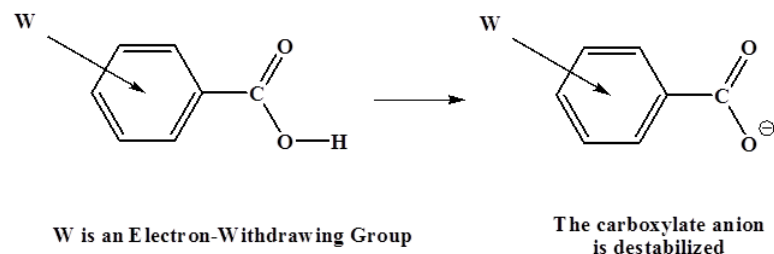


Electron-withdrawing groups deactivate the benzene ring to electrophilic attack and make benzoic acids more acidic.

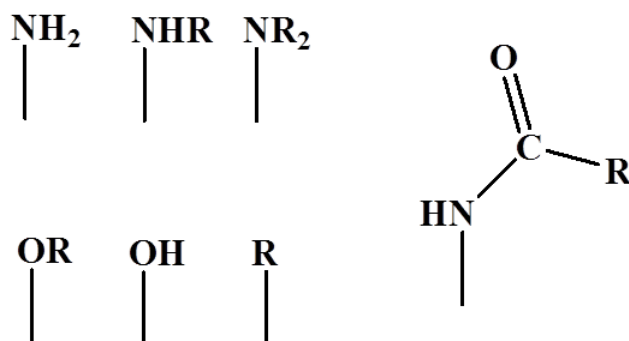


### Electron-donating groups

The conjugate base of benzoic acid is stabilized by electron-withdrawing groups. This makes the acid more acidic



Electron-withdrawing groups activate the benzene ring to electrophilic attack and make benzoic acids less acidic.



## Contributors

- Prof. Steven Farmer ([Sonoma State University](#))

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