

Start Quiz 2 Material

Leaving Group Ability

- Weakest base is best, most stable leaving group
- Find the weakest base because conjugate acid has lowest pKa

How Carboxylic Acids and Derivatives React

Nomenclature

- Acyl chloride (acid chloride)



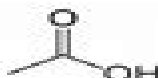
- Ester



- Acetamide



Benzoic Acid



- Carboxylic acid



- Amide



Acetic Acid



Relative Reactivities of Carboxylic Acids and Derivatives



chloride > acid anhydride > carboxylic acid ≈ ester > amide

- Resonance argument explains reactivities of carboxylic acids/esters versus amides because resonates to O or N with +FC. N is less EN than O so more stable with +FC. Carboxylic acids and esters are therefore more susceptible to nucleophilic addition.

Acid Chlorides

- Reactant: acyl chloride
- Reagent: nucleophile (alcohol, water, ammonia, etc)
- Product: depends on nucleophile (ester, carboxylic acid, amide)
- Mechanism:



- So reactive that they react under neutral conditions
- No S_N2 at sp² so always write the tetrahedral intermediate
- Sequence called (1) addition-elimination or (2) nucleophilic acyl substitution

National Standardized Organic Chemistry Test Study Guide

Allan D. Headley



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