

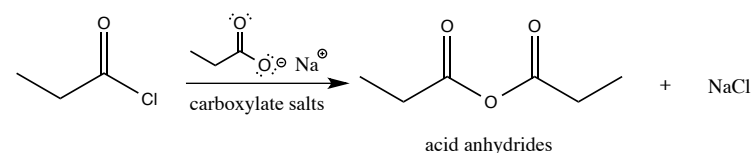
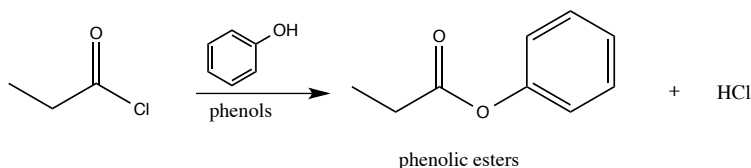
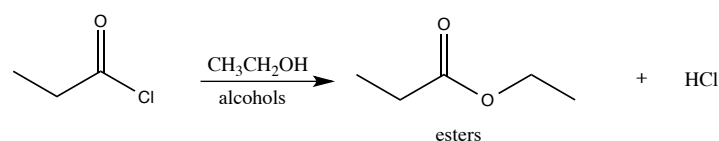
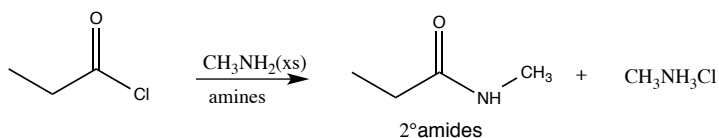
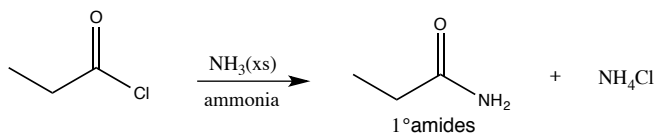
Chem 345 – Organic Reactions Chapter 21

Prepared by José Laboy, MS

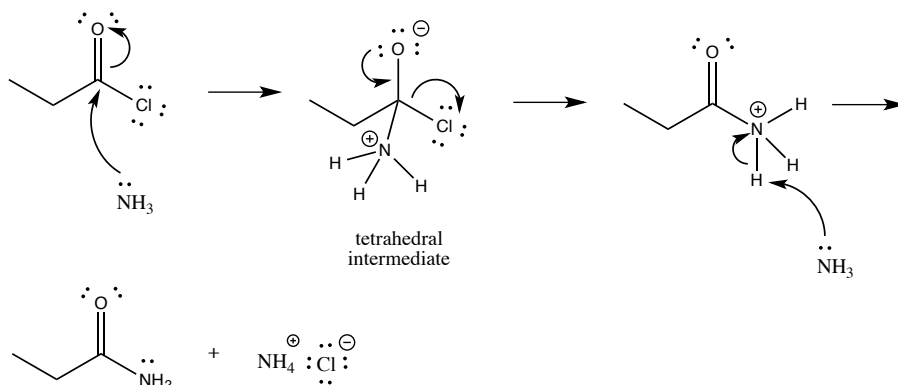
[http: www.chem.wisc.edu/areas/clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

Acid Chloride Reactions

Reactions:



Mechanism:



Acid chlorides are at the top of the list of reactive carbonyl compounds. All of the nucleophilic reactions shown above undergo the same mechanism. First the nucleophile attacks the very reactive carbonyl electrophile. A tetrahedral

intermediate forms which eventually collapses to the carbonyl product. It should be noted that all the carbonyl products formed in these types of reactions are resonance stabilized. You should be able to draw resonance structures for each of the products.