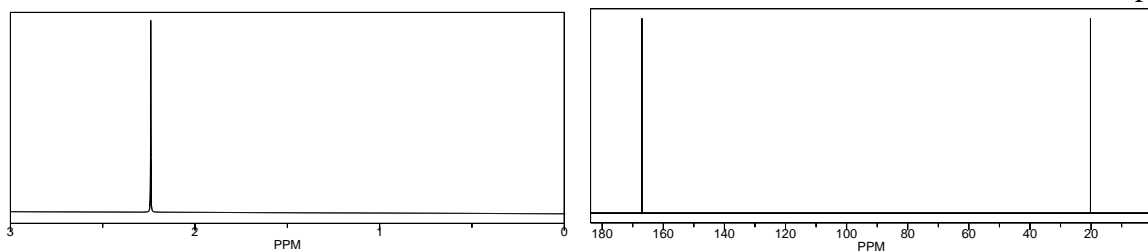


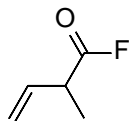
F16
 $C_4H_6O_3$

118C

Workshop 4

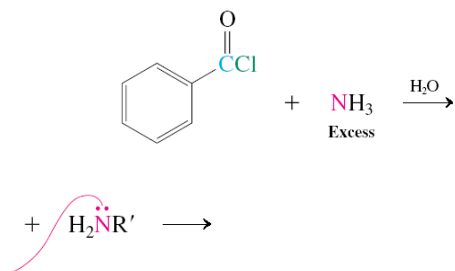


Nomenclature – Acid Chlorides



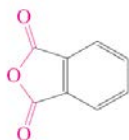
(3R)-3-hydroxy-3-
methylcyclopentane carbonyl
bromide

Amines + alkanoyl chlorides → _____



Tertiary amines cannot _____

Anhydrides



acid → anhydride

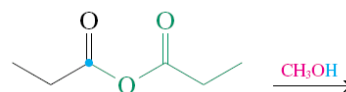


heptanoic anhydride

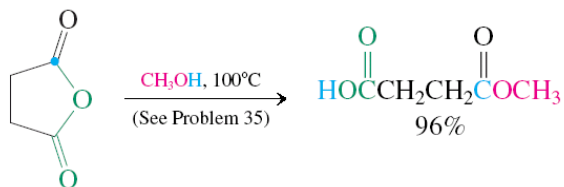
Same reactions as _____

Leaving group = _____

Predict products



Cyclic anhydrides



Alkanoyl halides _____ are often preferred for the preparation of many _____

Esters

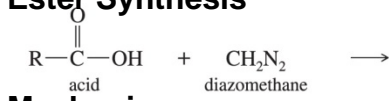
ic →

2-Methylpropyl propanoate

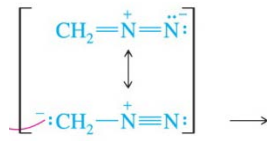
Methyl 2-aminobenzoate

3-Methylbutyl pentanoate

Ester Synthesis



Mechanism



Example



Esters + H₂O → _____

Reverse of _____

Mechanism

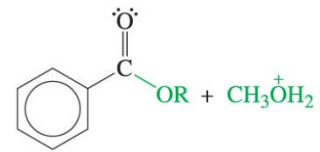
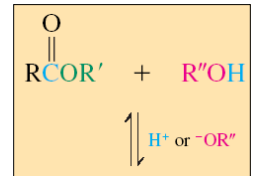
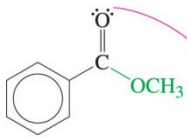


Transesterification

Conversion of _____

To shift equilibrium, _____

Mechanism



Predict products.

