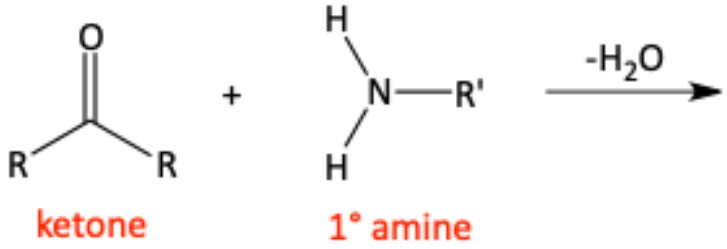
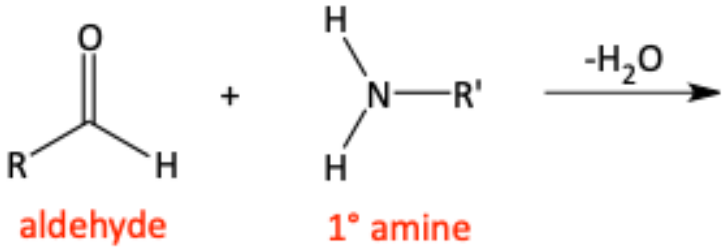
Carbonyl Reaction Review: Draw the Products

Each reaction shows the starting material and the reagents. Draw the product.

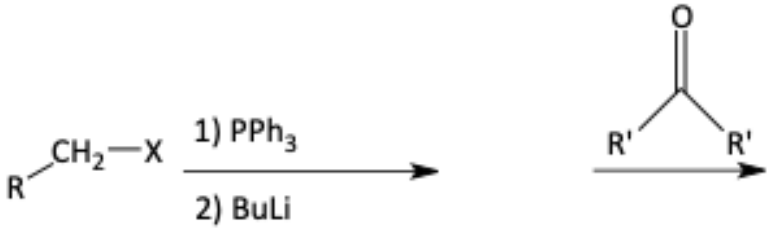
Name: _____ Date: _____

Ketones and Aldehydes to imines

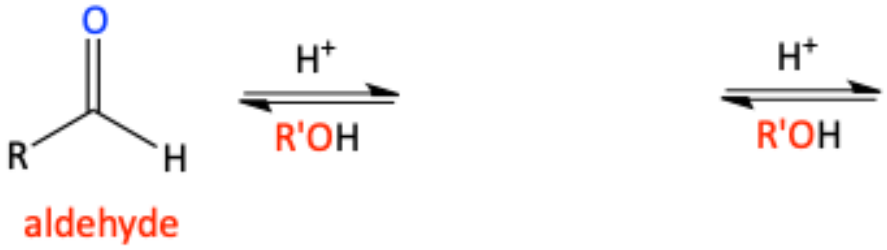


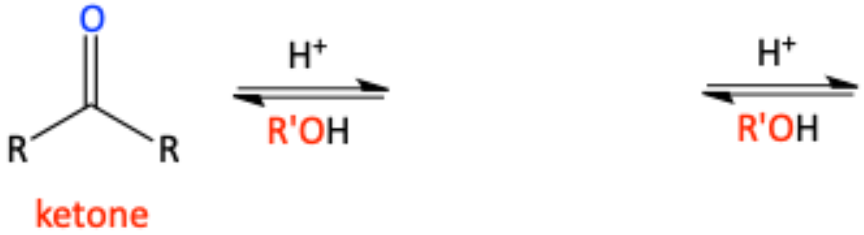


Wittig reaction - Ketones to alkenes

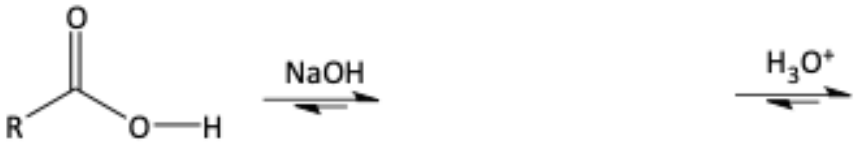


Ketones and aldehydes to acetals and ketals



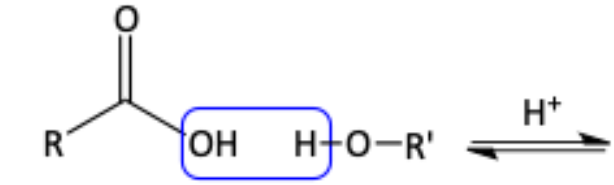


Deprotonation of carboxylic acid



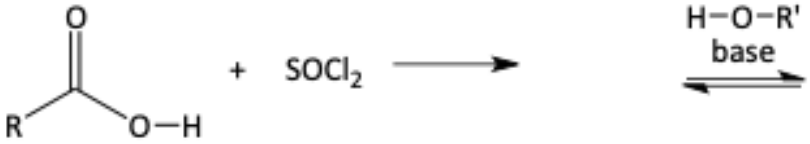
carboxylic acid

Fischer Esterification – carboxylic acid to ester



carboxylic acid alcohol

Carboxylic acid to acid chloride to ester



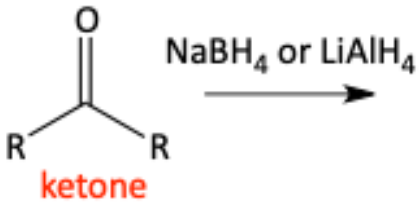
carboxylic acid thionyl chloride

Acid chloride to amide

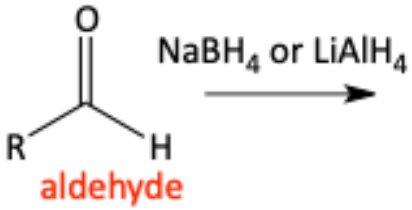


acid chloride

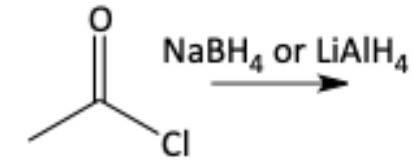
Reductions of carbonyls



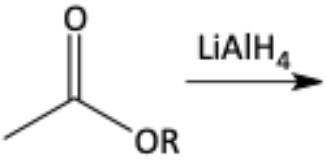
ketone



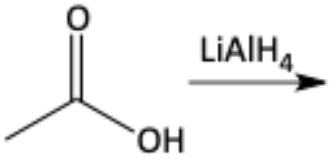
aldehyde



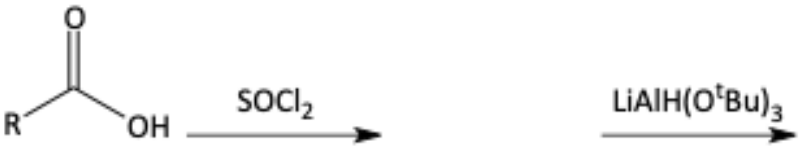
acid chloride

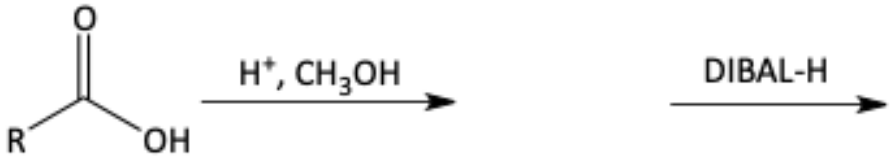


ester

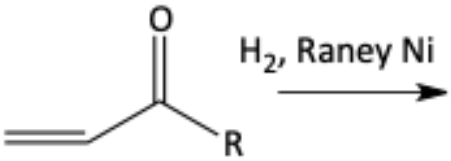


carboxylic acid

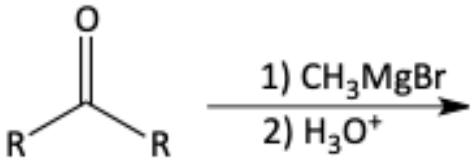




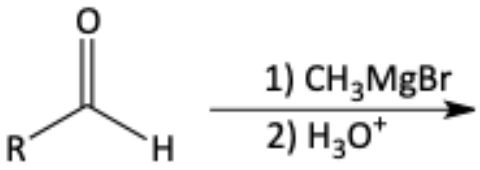
carboxylic acid



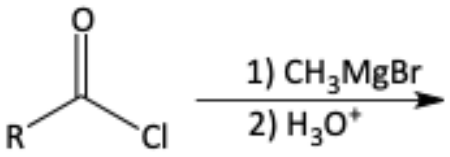
Grignard reagent attacks of carbonyls



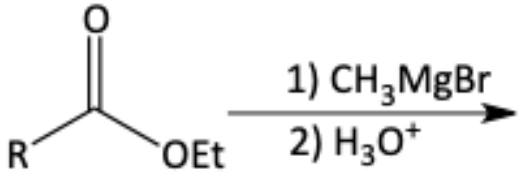
ketone



aldehyde



acid chloride



ester