

Chem 345 – Organic Reactions

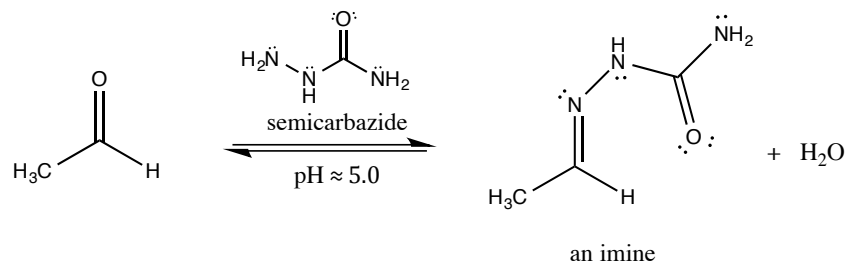
Chapter 19

Prepared by José Laboy, MS

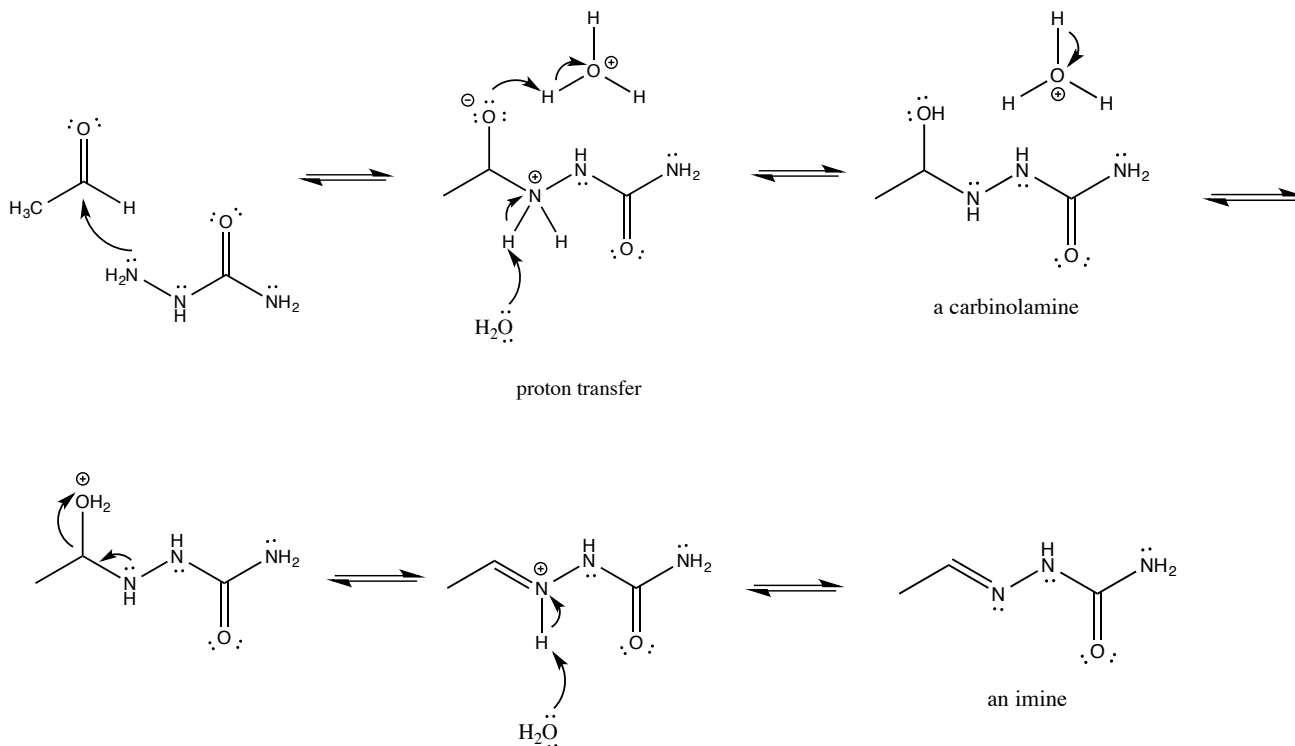
<http://www.chem.wisc.edu/areas/clc> (Resource page)

Primary Amine Derivatives of Aldehydes and Ketones

Reactions:



Mechanism:



Primary amines react with aldehydes and ketones in slightly acidic media to produce imines. Many of the imines formed are insoluble in aqueous media therefore the equilibrium is shifted to more product formation.

Below is a table of the most common 1° amine used for synthesis. For reaction purposes I have used acetaldehyde as the carbonyl compound.

1° Amine Compound

Imine Derivative of Acetaldehyde

