

# Chem 345 – Organic Reactions

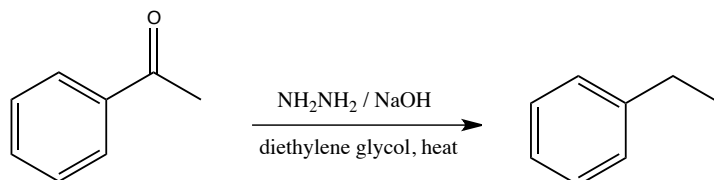
## Chapter 19

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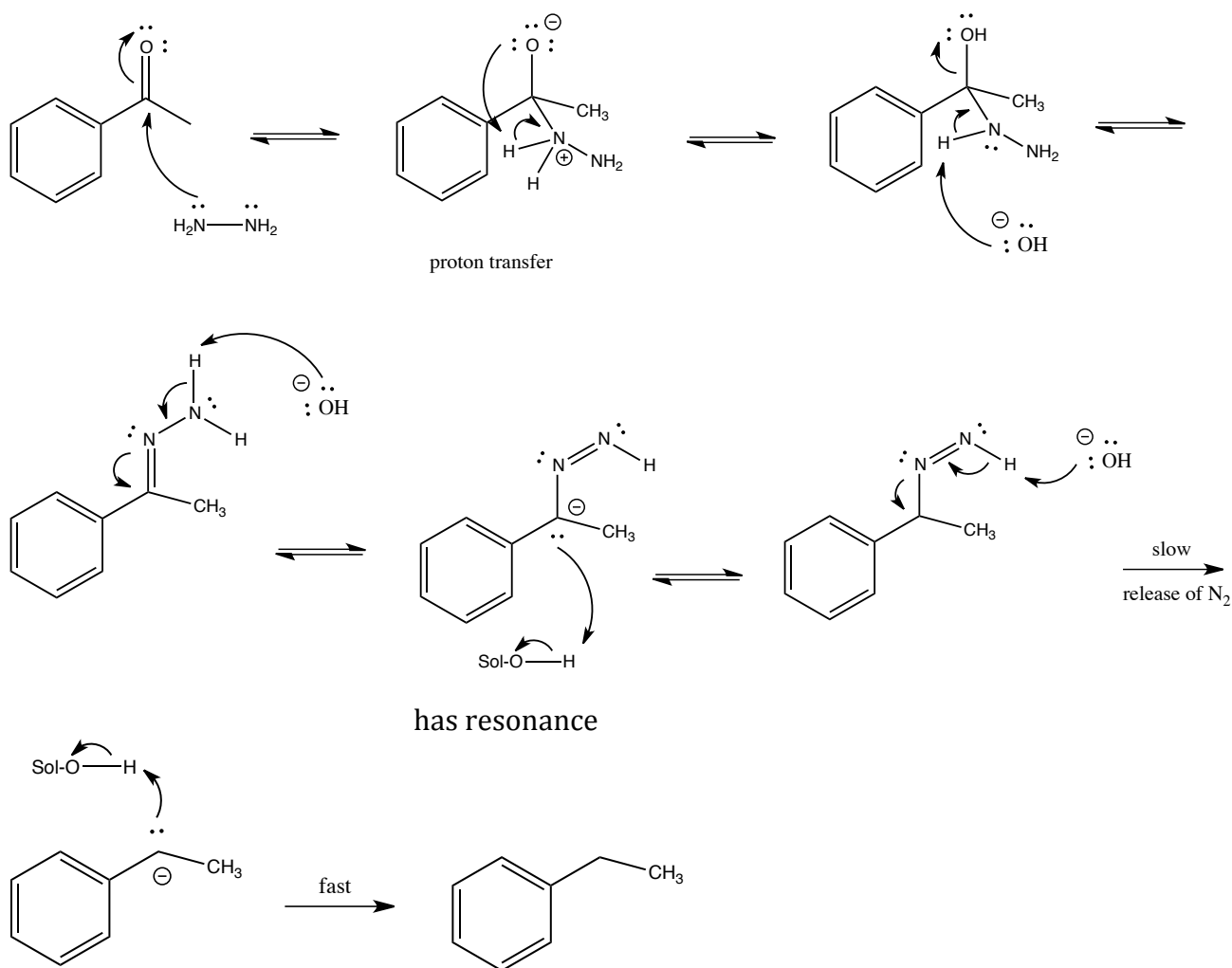
<http://www.chem.wisc.edu/areas/clc> (Resource page)

### The Wolff-Kishner Reduction

Reaction:



Mechanism:



The driving force of the reaction is the formation of the stable  $\text{N}_2$ .

The Wolff-Kishner reduction conditions are quite harsh. This reduction procedure requires careful planning. There are many compounds that do not tolerate high alkaline conditions and heat. Epoxides, alcohols, alkyl compounds to name a few are unstable under strong alkaline conditions.