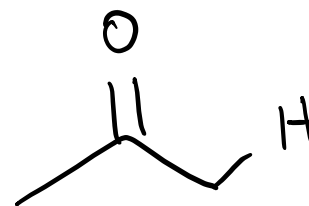
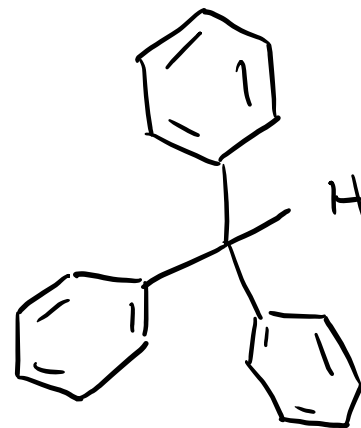
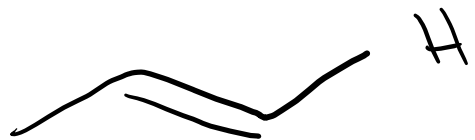
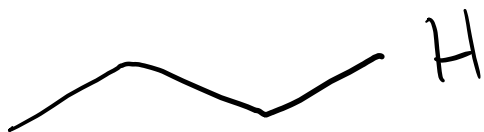


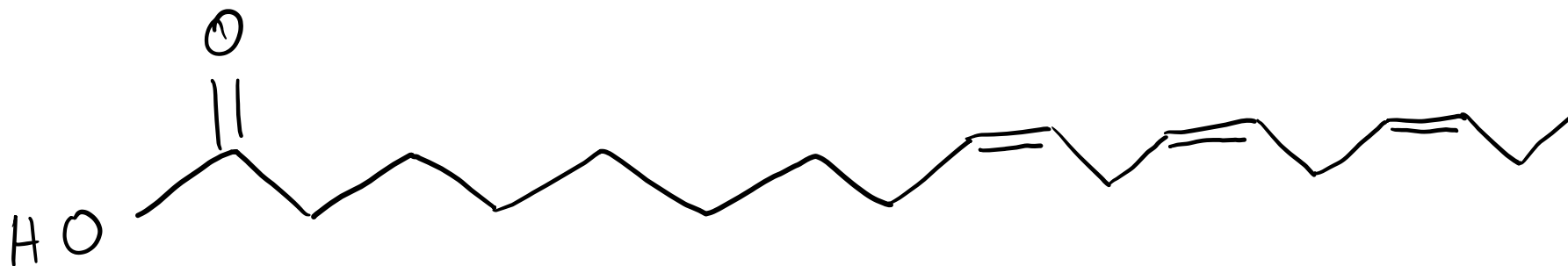
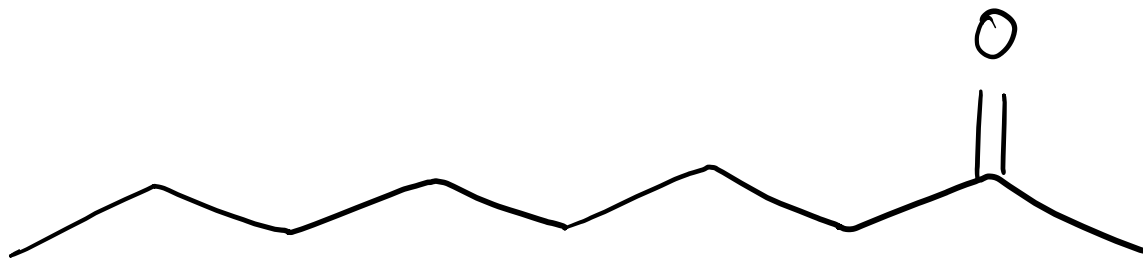
Enols and Enolates

3/15/2023

Acidity of C-H bonds



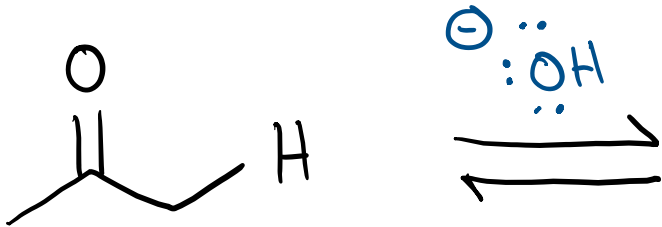
Ch 21: "Alpha Carbon" Chemistry



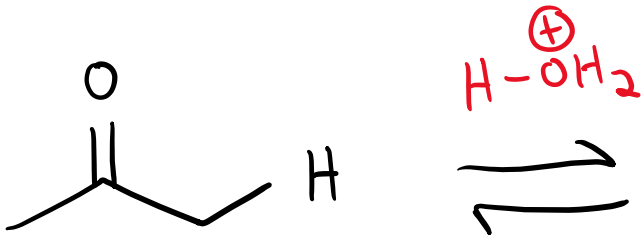
Keto-enol Tautomerism

(21.1)

In **basic** conditions (base-catalyzed):

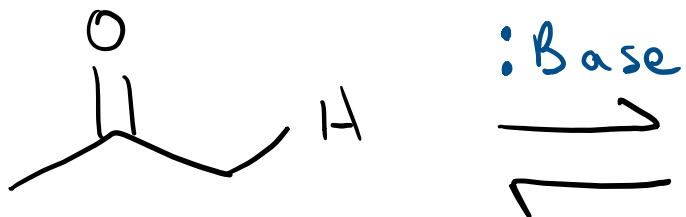


In **acidic** conditions (acid-catalyzed):



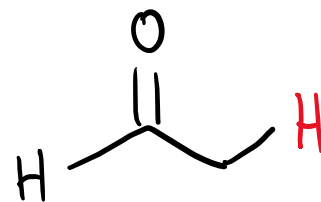
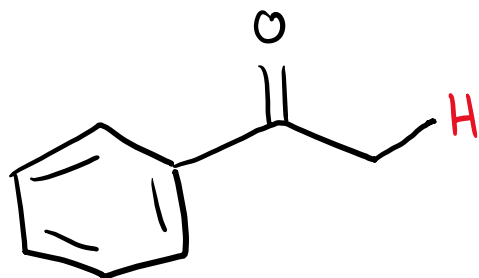
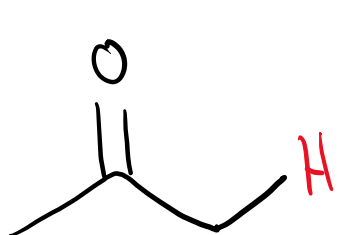
Enolates: Formation and Reactivity

Formation:

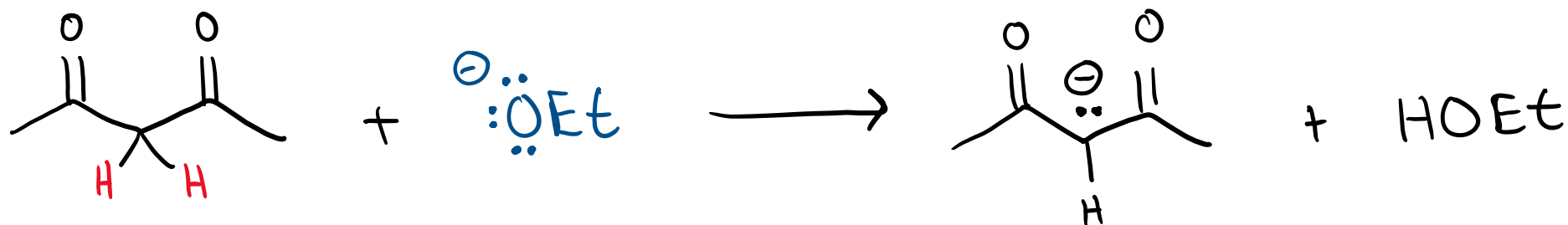
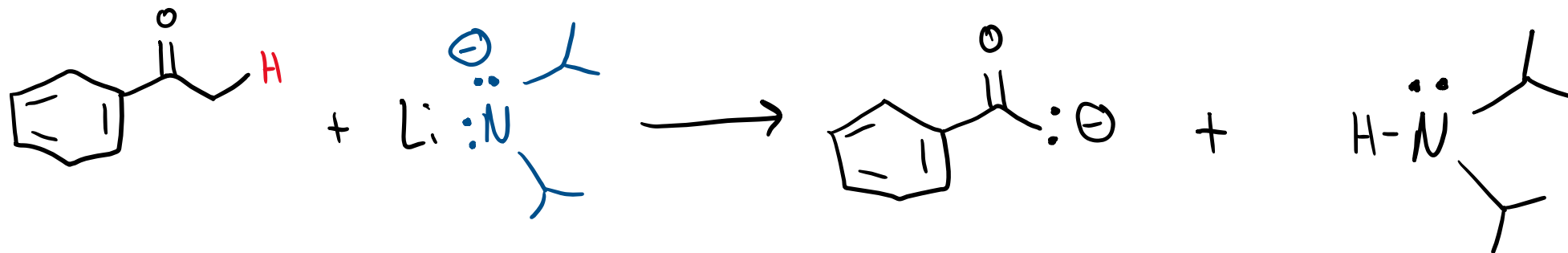
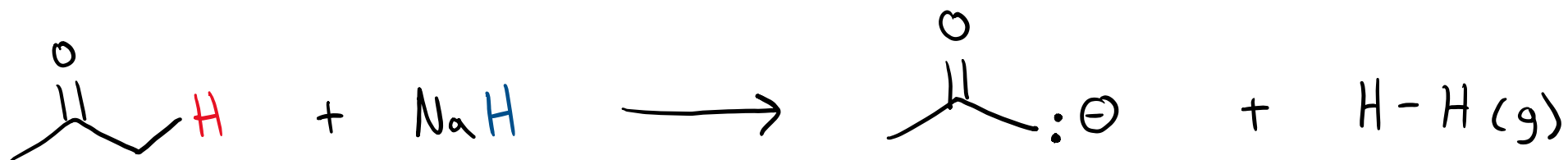


Reactivity:

Forming Enolates Reversibly



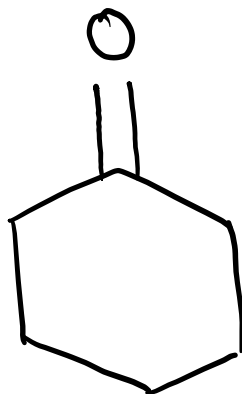
Forming Enolates Irreversibly



Alpha-halogenation

(21.2)

In **acidic** conditions:



Mechanism:

