Overheads: - Outline

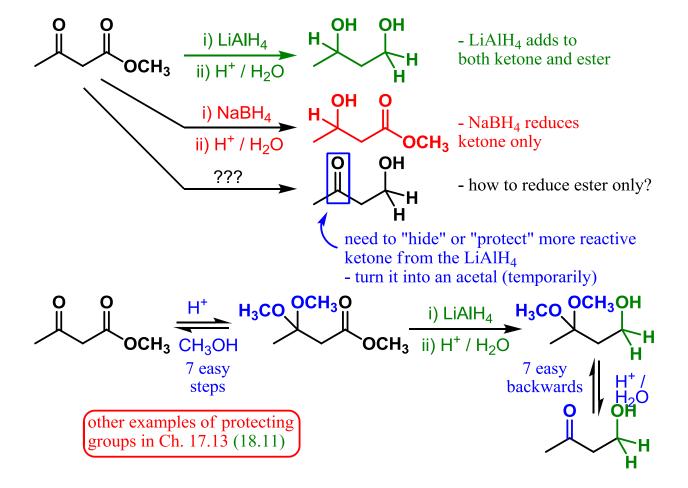
Recap Monday:

Addition of N Nucleophiles:

Addition of Alcohols (ROH)

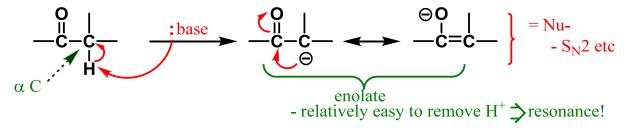
$$H_3C-C-CH_3 \xrightarrow{H^+} H_3C-C-CH_3 + H_2O$$
acetal

Major use of Acetals: "Protecting Group" for aldehydes/ketones



Carbonyls So far: Addition of Nu⁻ to Corbonyl compounds can also be Nu⁻

deprotonation of C α to carbonyl gives enolate:



or... can use enol:

Recall 241:

Recall 241

= isomers that differ in position of double bond and H, & rapidly intercovert

Mechanism for Tautomerization: (catalyzed by H⁺ or OH⁻)

a) Base-catalyzed:

Reactions of Enols:

- Weak Nu-
- React with strong E⁺ like Cl₂, Br₂, I₂

A) Halogenation

Reaction of Enolates: stronger Nu- : in presence of excess base and halogen replace ALL α -H's