

Ch 22

Note Title

4/21/2006

Wittig report formal report format.
Full mechanism! Including part A

- Note that phosphonium salt already prepared (experimental deviations)
- Questions 1, 3
- Due Tues at start of lab

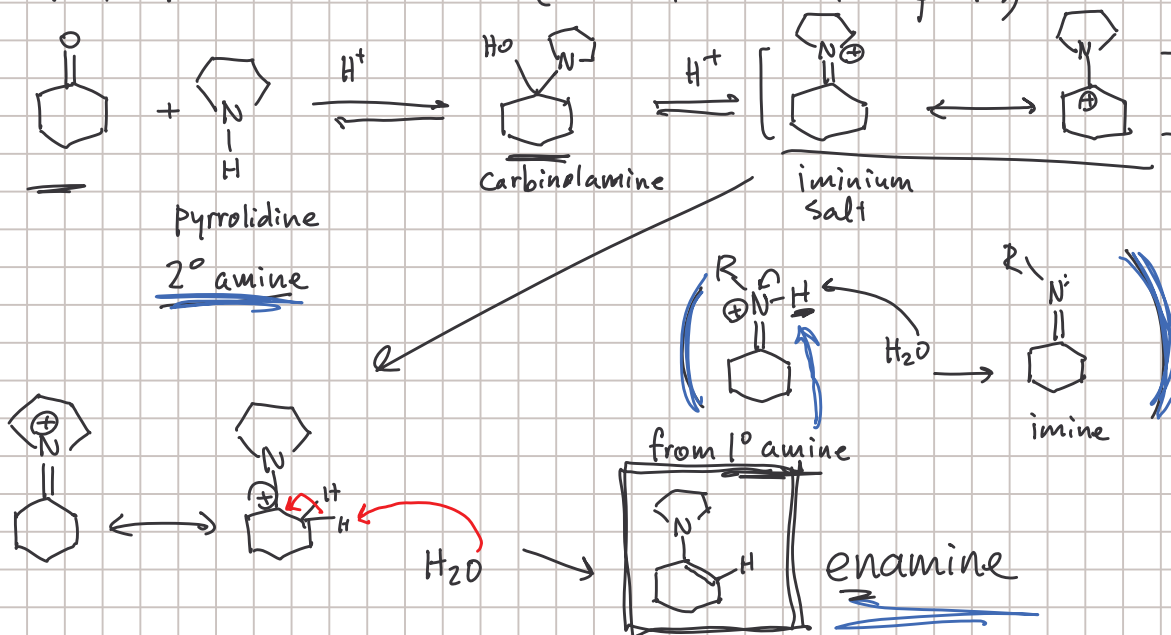
enolate alkylation

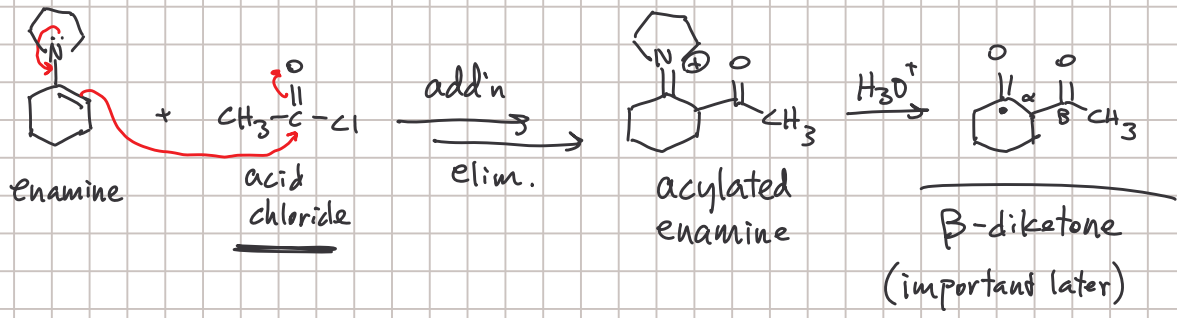
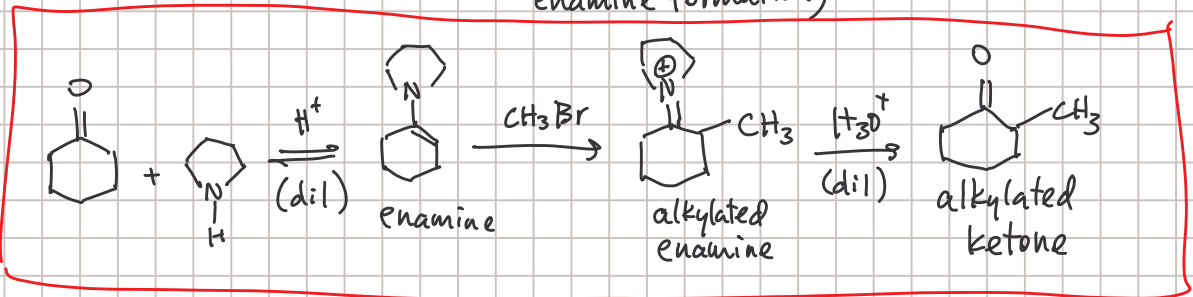
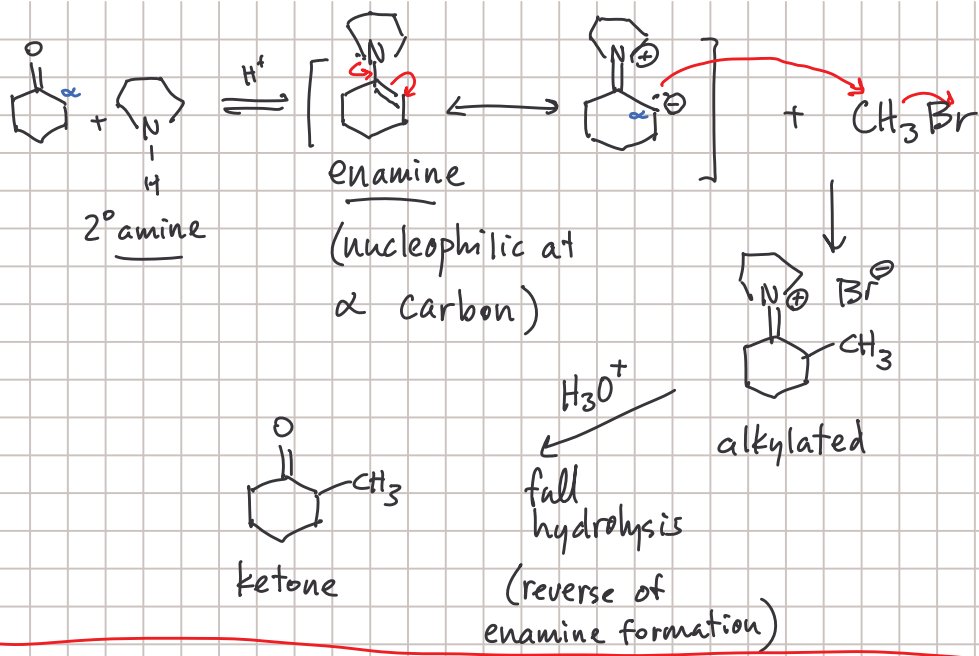


can't have any other sensitive functional groups
(reaction w/ strong base)

Stork enamine alkylation

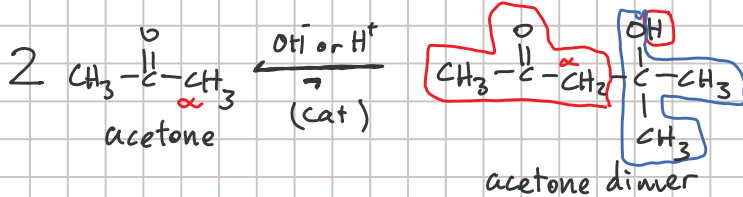
- Milder, more selective alkylation
- requires no strong base or acid
- polyalkylation does not occur (even w/ small electrophiles)



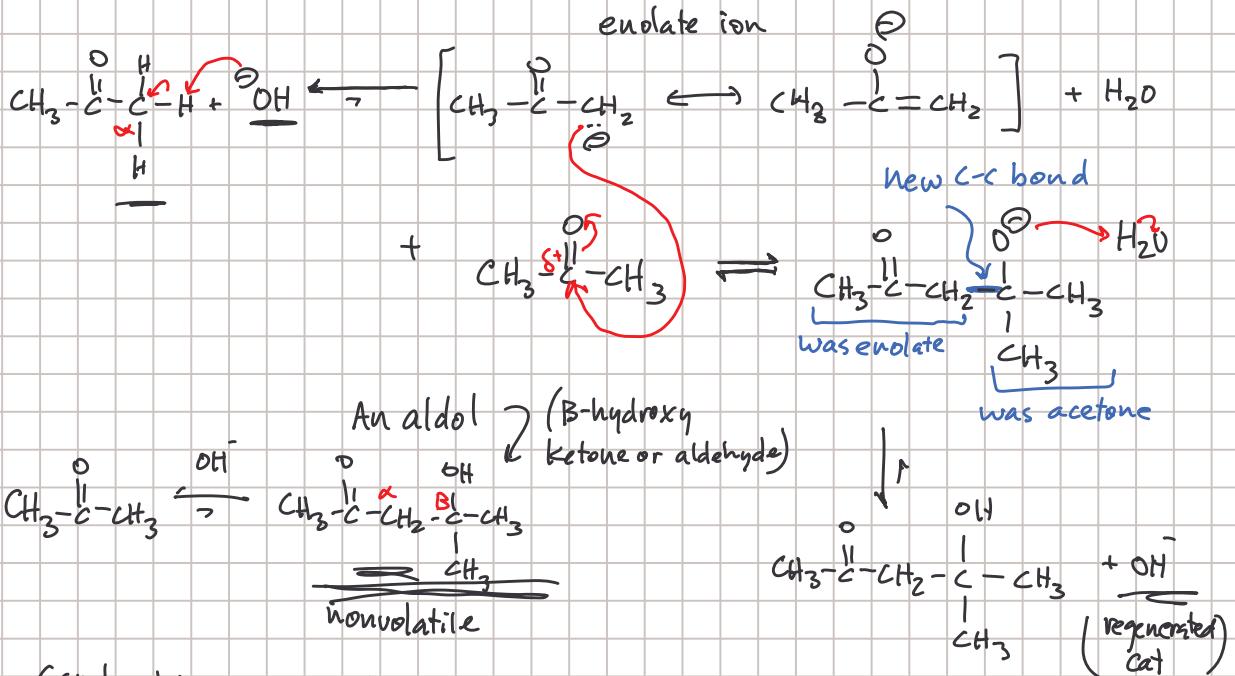


Aldol condensation

very important reaction

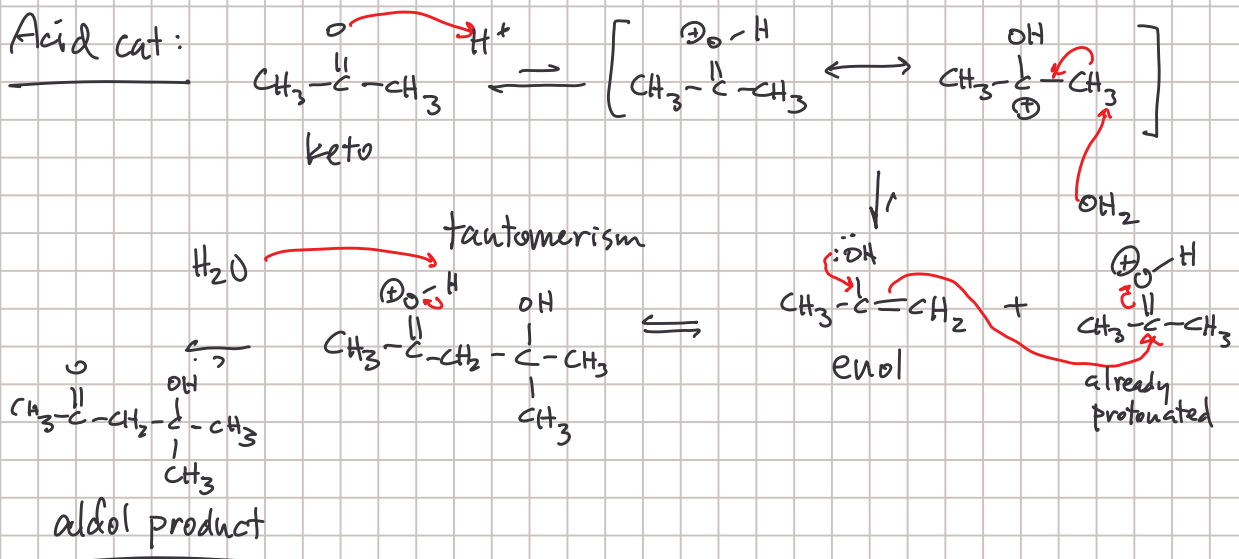


base-cat. aldol condensation

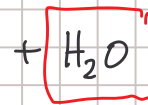
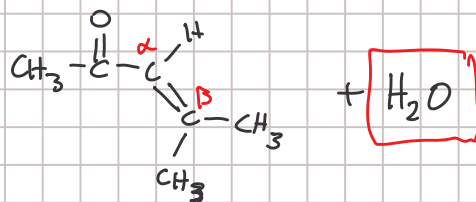
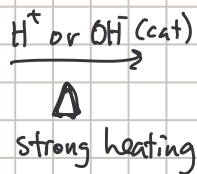
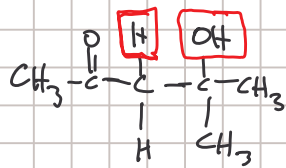


Can be driven to completion if only acetone vapor is allowed to react (see fig 22-2)

Acid cat:



Dehydration of aldol products



α, β -unsaturated ketone

= enone