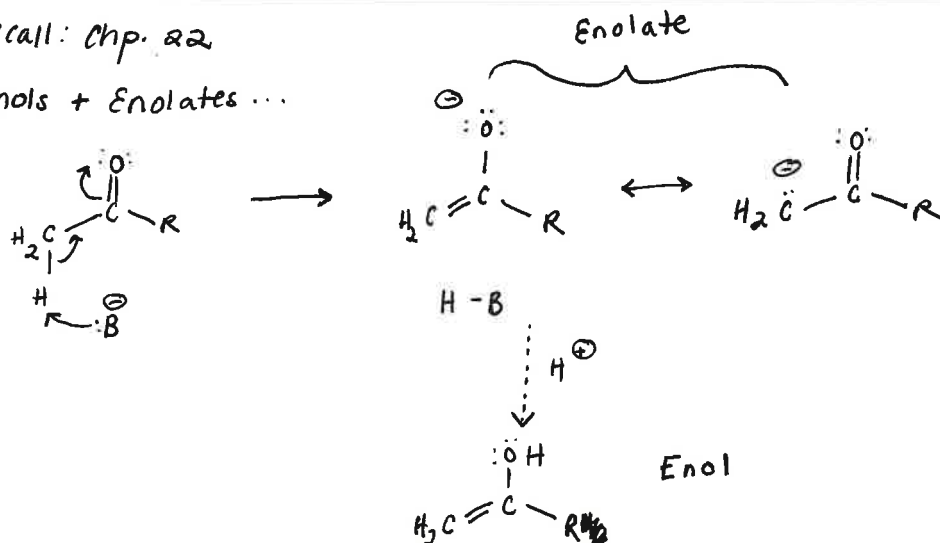


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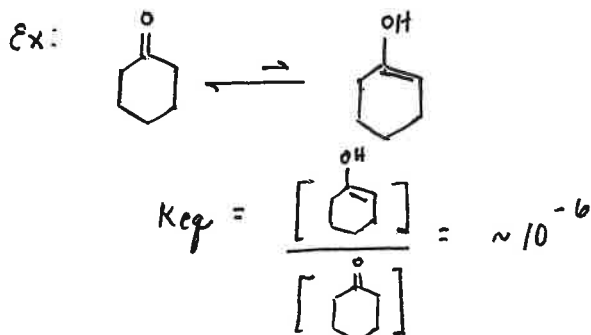
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Recall: Chp. 22

Enols + Enolates ...

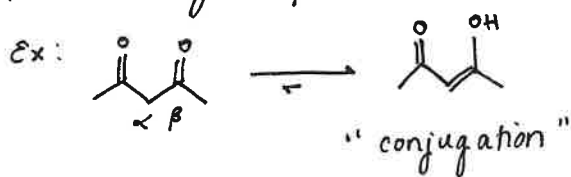


Most enols are unstable relative to carbonyl isomer



Note: In special cases, enol form is favored.

β -dicarbonyl compounds



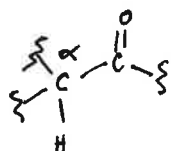
Phenols



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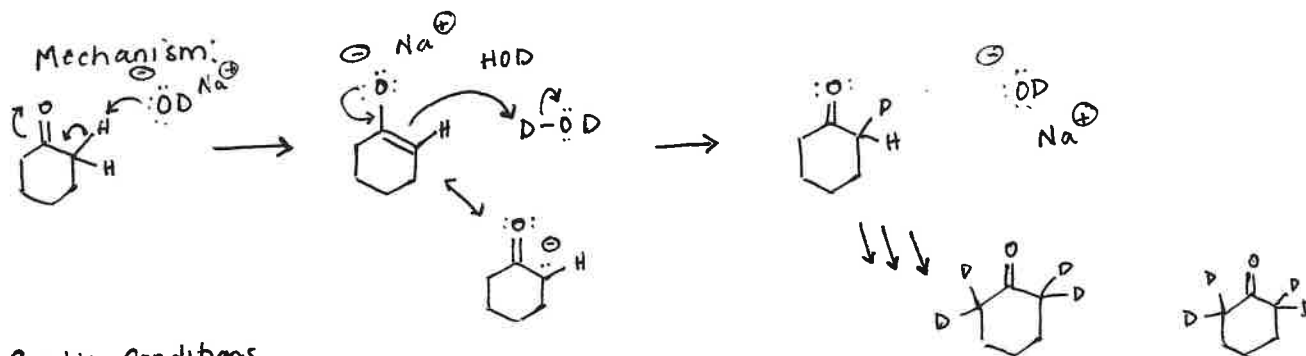
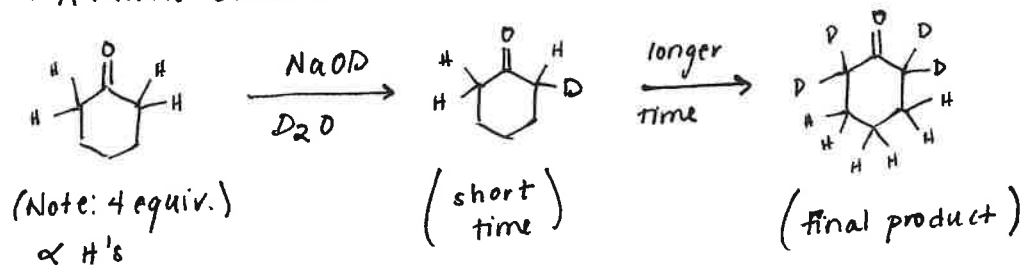
Rxns based on α -acidity of carbonyl compounds



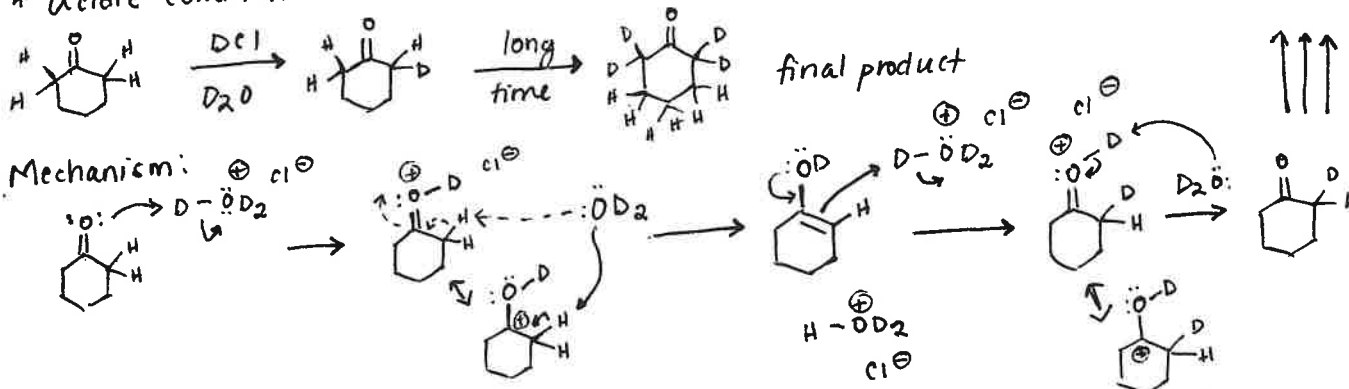
① H/D exchange:

(D $\equiv$ deuterium, H isotope)

* Alkaline conditions



* Acidic conditions



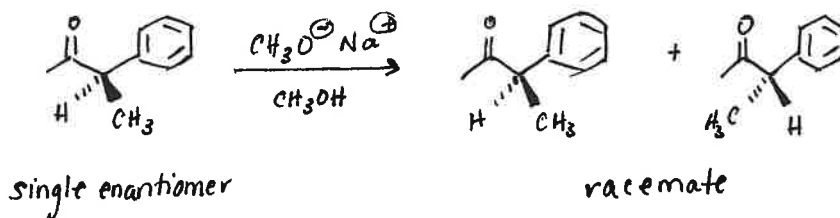
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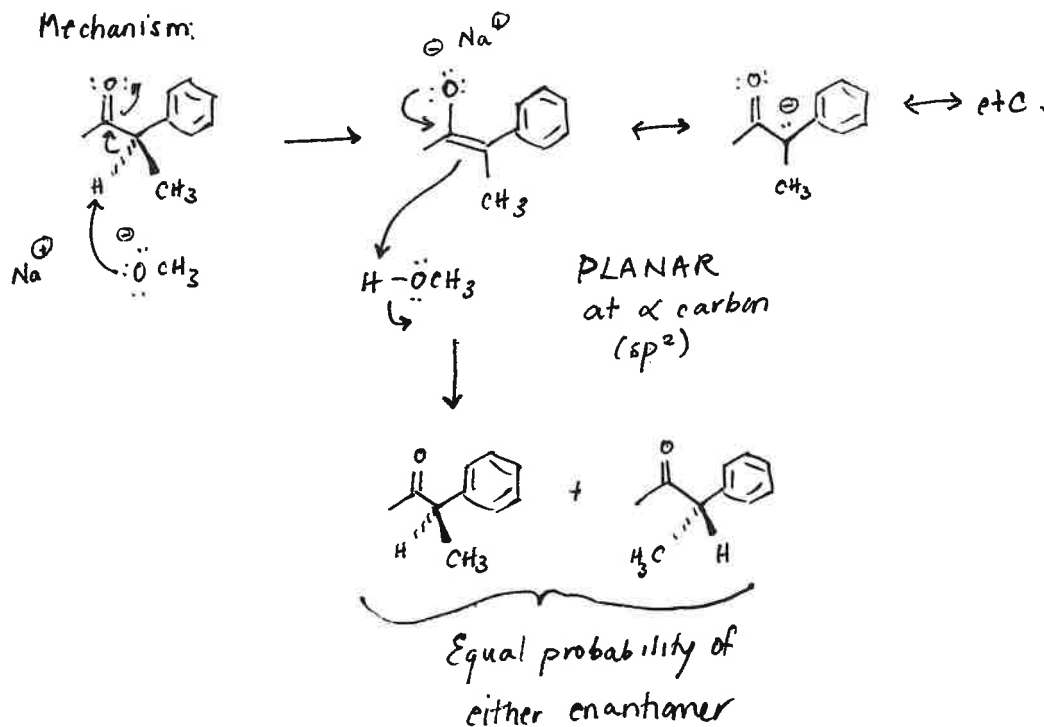
Rxns based on α -acidity of carbonyl compounds continued...

② Isomerization of α -stereogenic centers:

Alkaline conditions.



Mechanism:

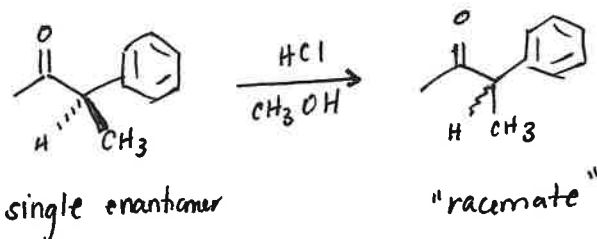


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② Isomerization of α -stereogenic centers:

Acidic Conditions:



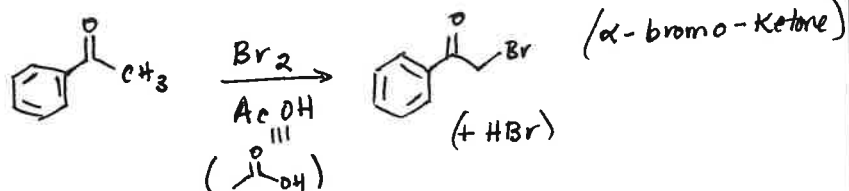
Mechanism: You fill in Mechanism!

Hint: occurs via enol which is planar (i.e., achiral)

③ α -Bromination (or chlorination or iodination)

acid vs. base ----> different outcome!

Acidic Pathway: overall:



Partial Mechanism (you fill in the rest)

