

Course Chem 345 Lecturer Gellman

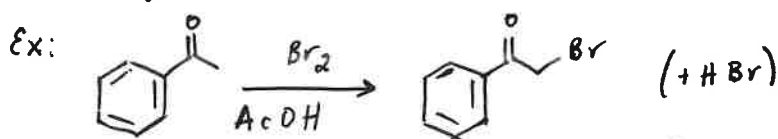
Day Wednesday Date 7/8/2015

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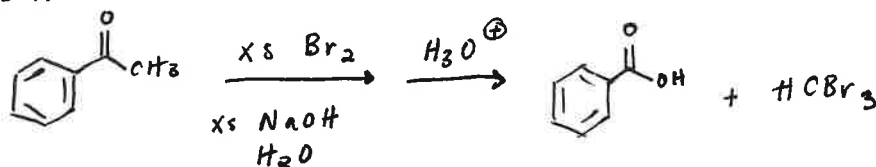
Recall: Rxns involving acidity of H's α to a C=O.

- 1) H/D exchange
- 2) stereocenter isomerization.
- 3) α -halogenation

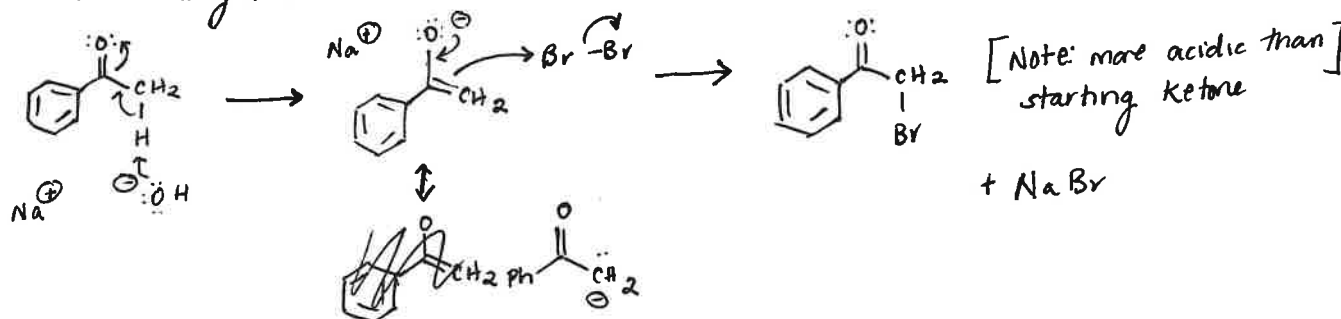


[Note: Acidic conditions, $\text{AcOH} = \text{CH}_3\text{COOH}$]

Different outcome under alkaline conditions:



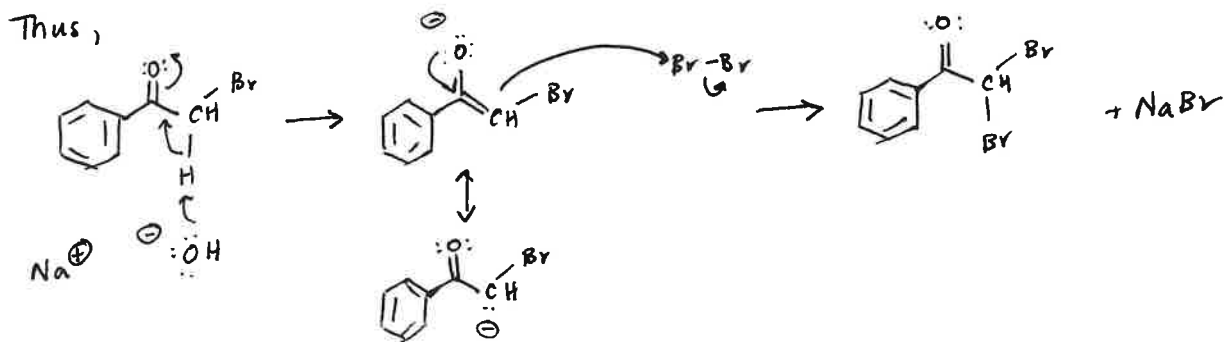
Mech: Begin w/ enolate formation.



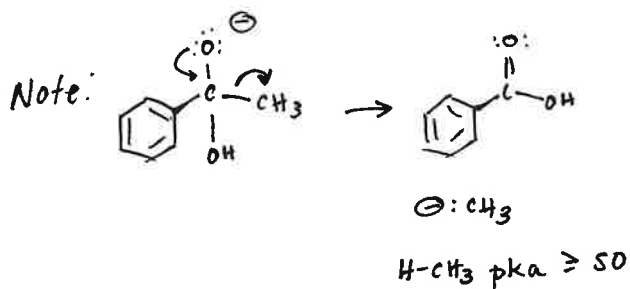
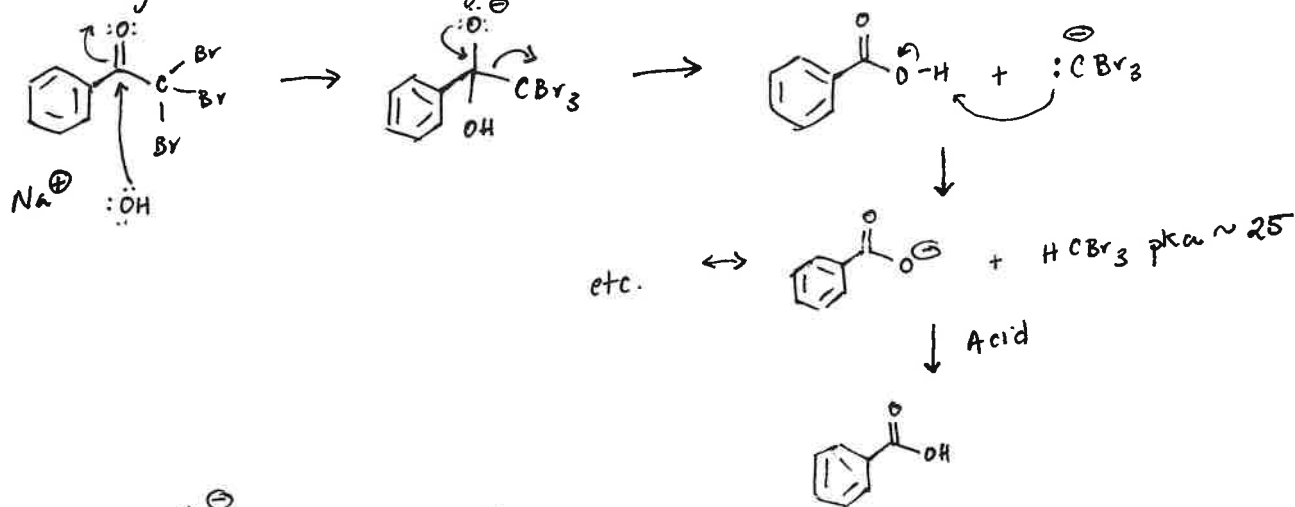
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Third cycle of bromination - you fill in mechanism



"Haloform rxn"

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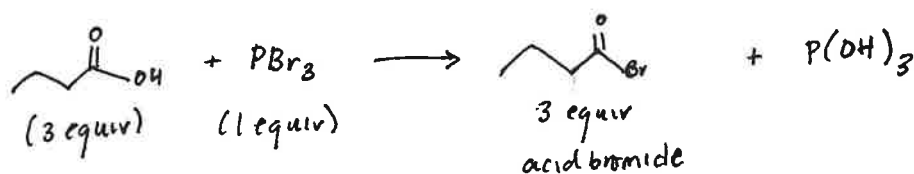
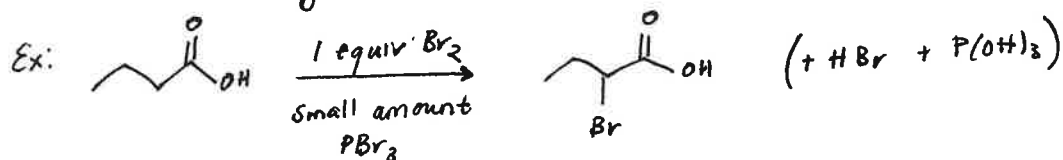
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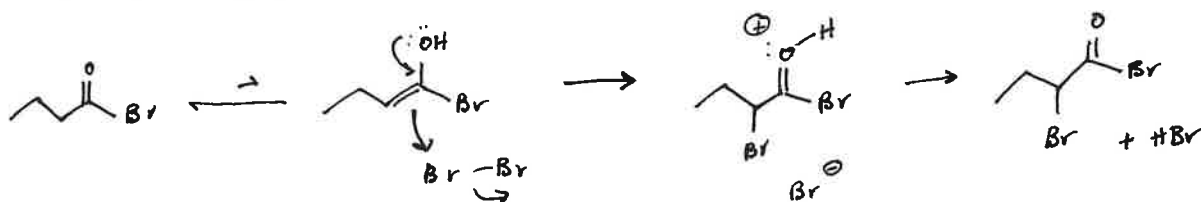
Rxns involving acidity of H's α to a C=O continued...

④ α -halogenation (bromination) of carboxylic acids

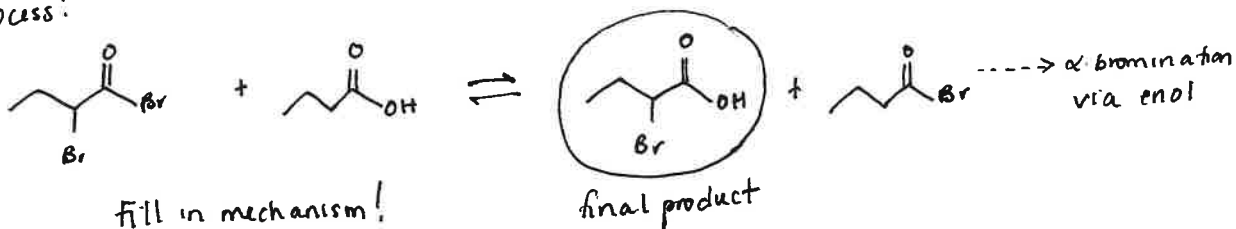
→ Bromine only



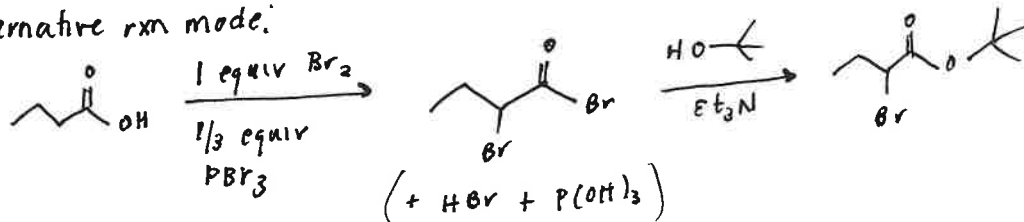
Enol forms of carboxylic acids do not occur.
 HOWEVER, enol can form for acid bromide



Key Process:



Alternative rxn mode:



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