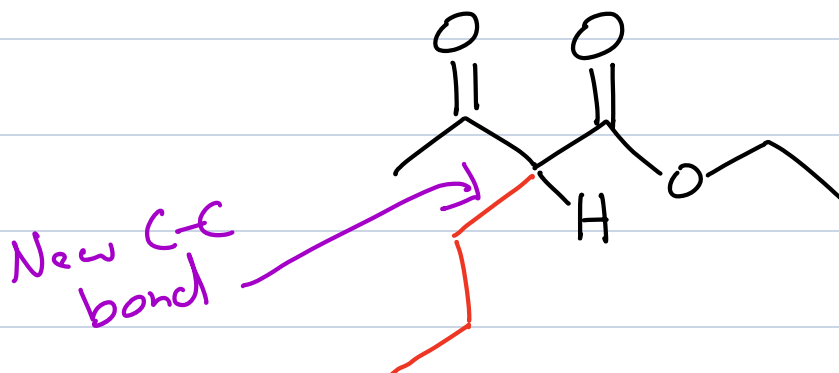
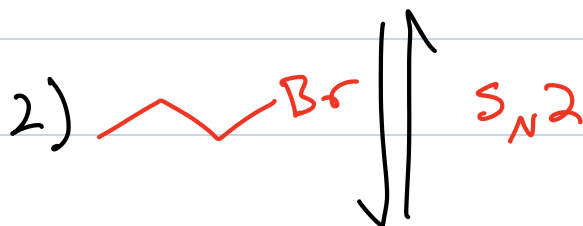
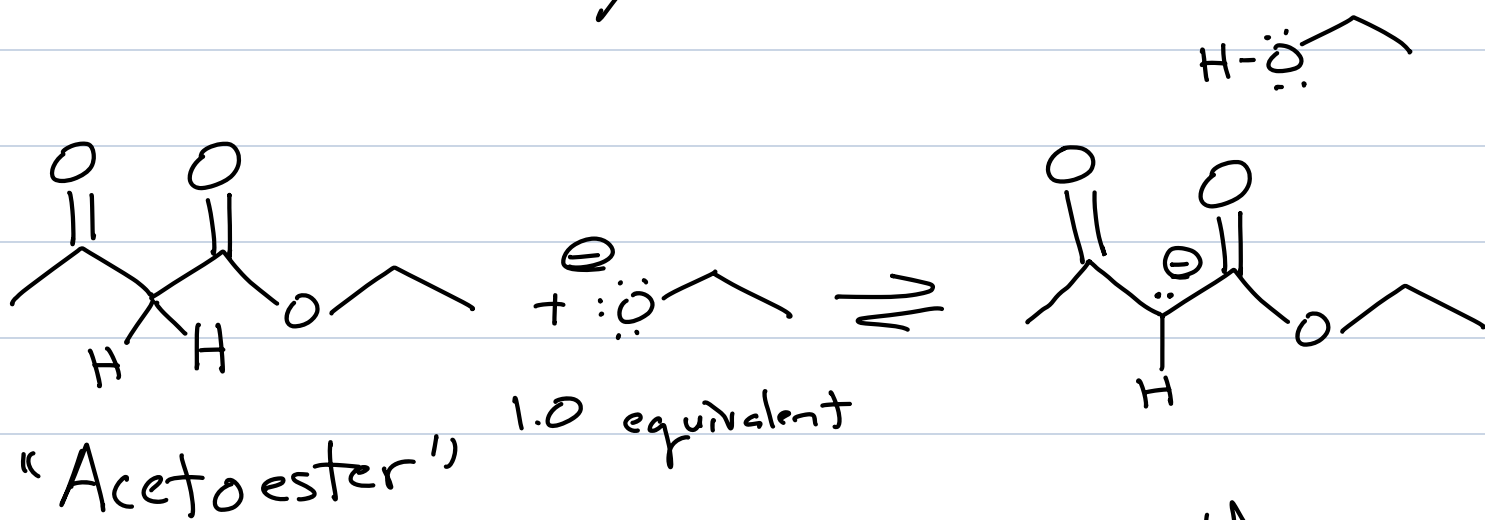




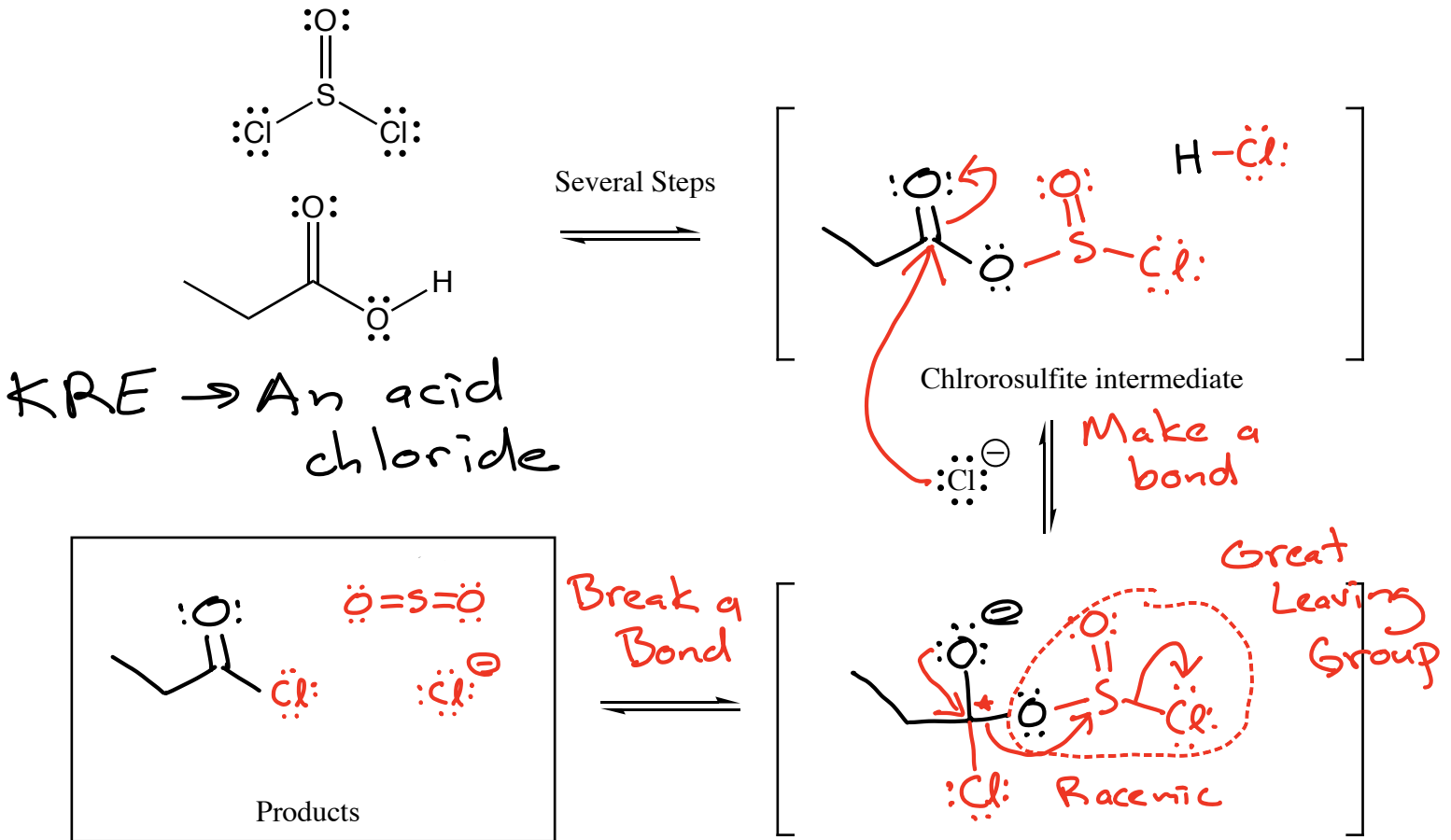
Acetoester
Synthesis

Acetoester Synthesis

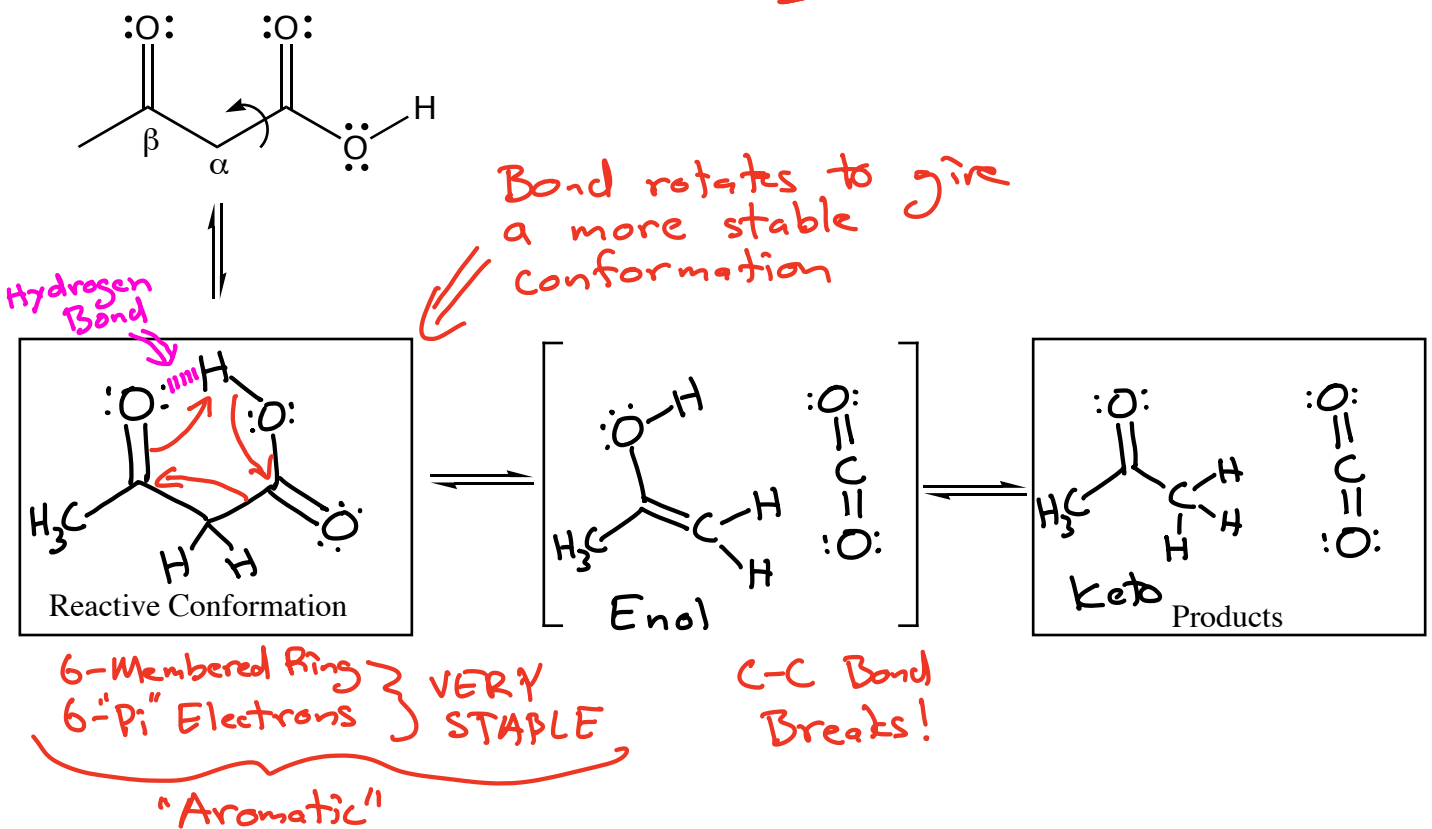




Reaction with Thionyl Chloride

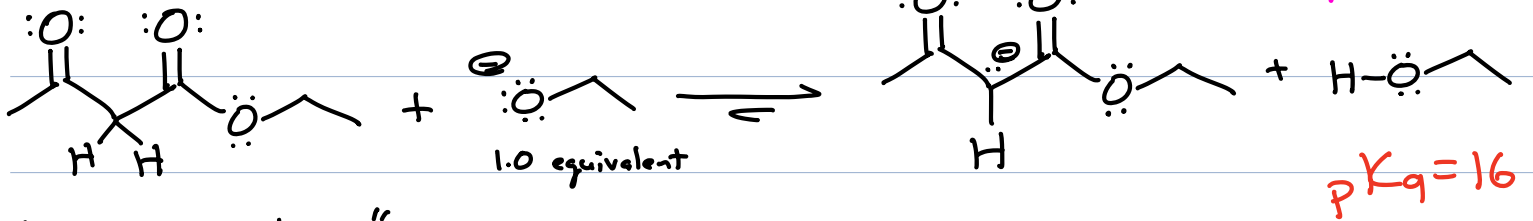


Decarboxylation of a β -Keto Acid



This side is highly favored at equilibrium

This is a pretty good carbon nucleophile

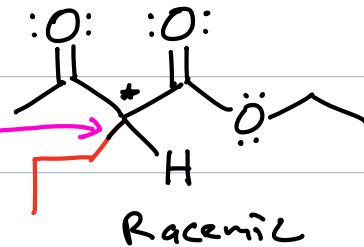


"Acetoester"

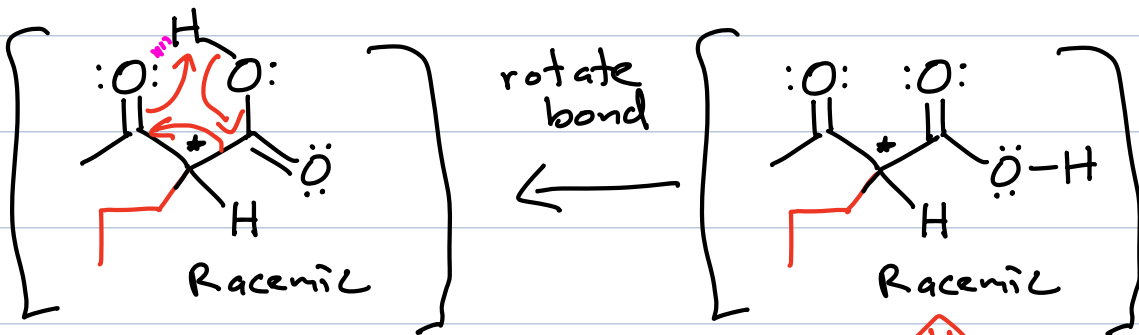
$pK_a = 11$

CCBr
 S_N2

New C-C bond



H3O+ heat ester hydrolysis

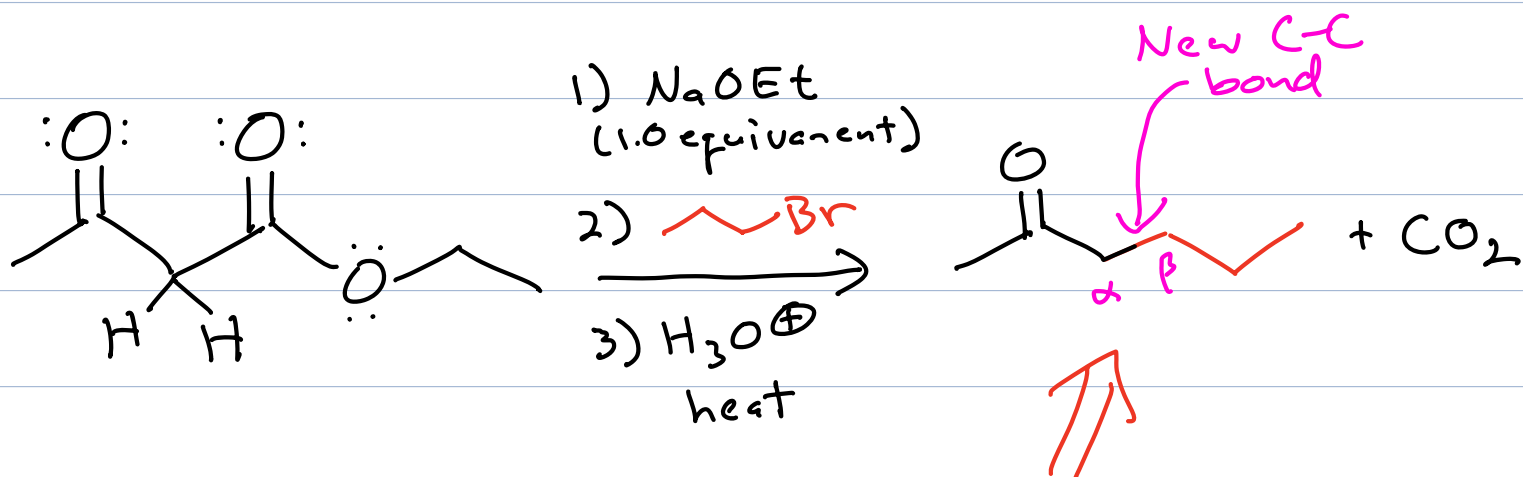


(after tautomerization)

β -keto acid \rightarrow will lose CO_2 under these conditions



Acetoester Synthesis Summary



KRE - A methyl ketone
with a new C-C
bond between the
 α and β carbon atoms

