Acid-Catalyzed & Base-Promoted Hydrolysis

Section 15.8 & 15.9

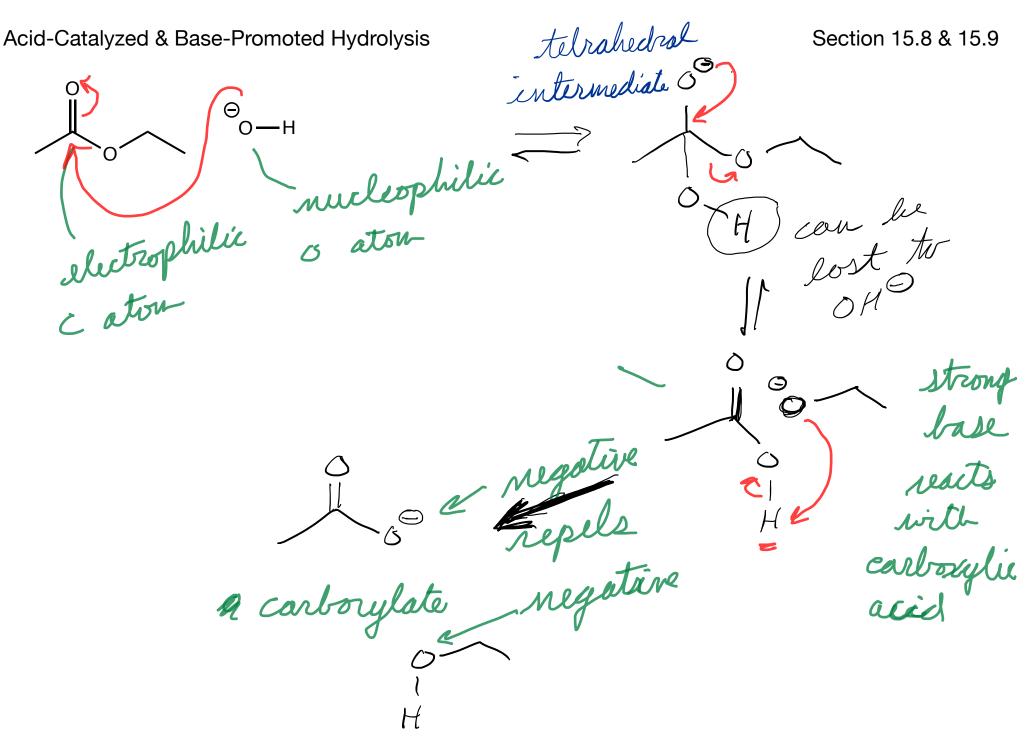
H-CI atalytic amount which ester O :0: aton is most `0´ н′ likely protonated ! O aton és top lodeling says more C=O o aton. • used is

le = + adjacent T bond = delocal -Awap /p e + t bond to generate a resonance structure

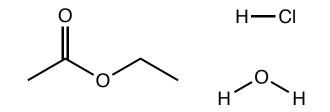
Acid-Catalyzed & Base-Promoted Hydrolysis Section 15.8 & 15.9 -H J-G. 0 aton és H-U :30-H · protonation makes E=0 bond more polar ... makes a more 0 lectrophilic * @ nucleophilic O on H2O attacks electrophilic H_O 3 weakest bond is broken to to encemind

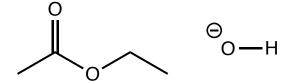
Section 15.8 & 15.9 Acid-Catalyzed & Base-Promoted Hydrolysis CIO ,ö-H /H 0 \checkmark (-1)ton es 0 atalyst ' speede reaction H-0 :80-H tolut 6's have inate Ð Ø H similar -0 *6*⊕ this NOW (+)هر ال لل + HZO

Acid-Catalyzed & Base-Promoted Hydrolysis Section 15.8 & 15.9 /H 0-H Equilibrium reaction how do I push it ald lots of H20 H-G pushes equilibrium H to completion toward producte :30-H re abrohol 0 also pushes /H --0 $\mathcal{H} - \mathcal{O}^{\oplus}_{\mathbf{R}}$ reaction Toward \oplus STH eroducte HZO

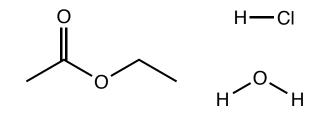


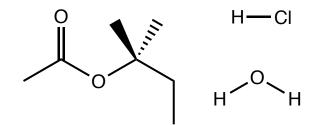
Acid-Catalyzed & Base-Promoted Hydrolysis





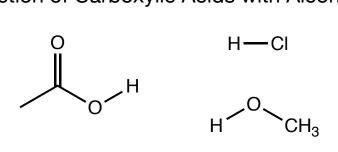
Complications in Acid Catalyzed Hydrolysis...





Reaction of Carboxylic Acids with Alcohols

Section 15.10



Reaction of Carboxylic Acids with Amines

Section 15.10

