

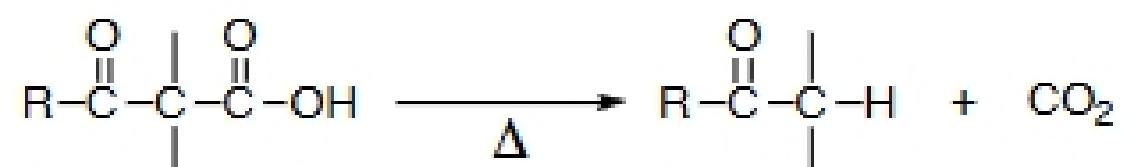
April 30, 2002

Recitation #14 (covering material through Chapter 19)

1. Outline a method to synthesize 4-methyl-2-pentanone starting from ethyl acetate:

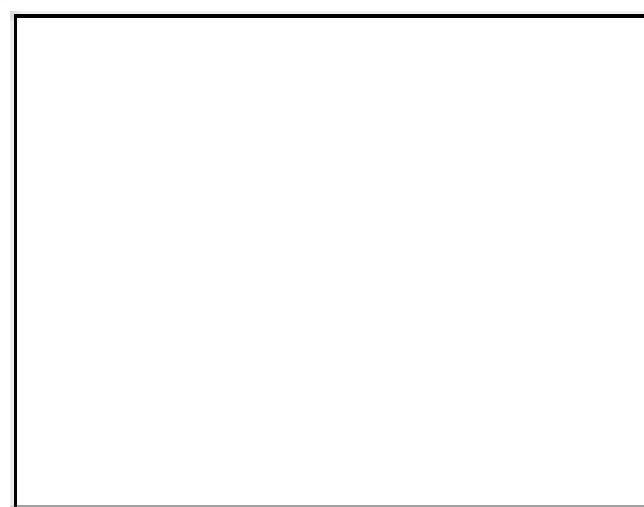
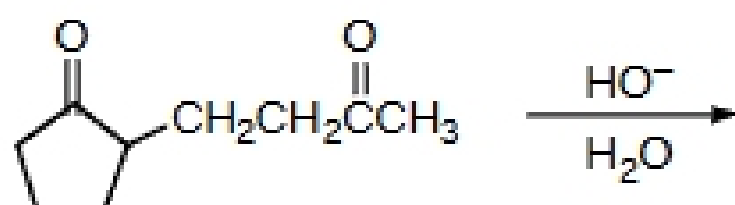
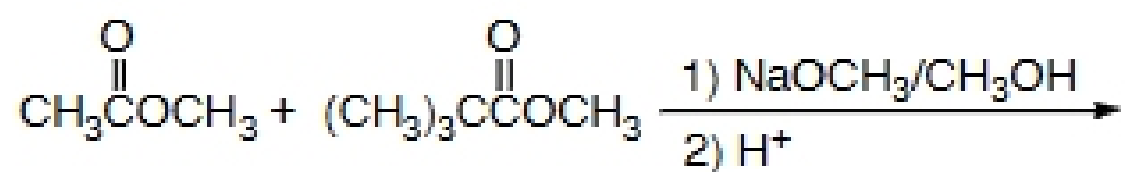


2. β -keto acids readily decarboxylate (lose CO_2) upon heating:



Write a complete "e⁻ pushing" mechanism for this transformation.

3. Indicate the major product(s) of the following reactions:



4. Draw the reactants and experimental conditions to synthesize each of the following compounds using a Robinson annulation.

