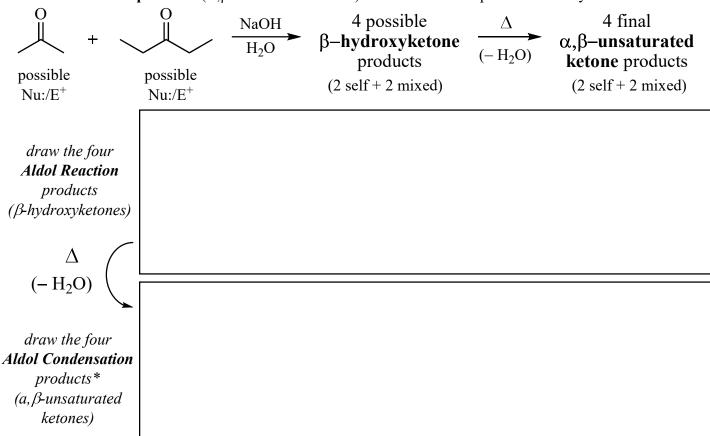
Organic Chemistry II CHM 3150, Dr. Laurie S. Starkey, Cal Poly Pomon
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"Messy Aldol" Homework

ivanie

Before working on this homework, review Mechanisms 21.4, 21.6 and work on SkillBuilders 21.2, 21.3. Predict the possible aldol products for the following reaction (provide 8 structures). Choose one of the mixed aldol final products (α,β -unsaturated ketone) and show the complete base-catalyzed mechanism.



^{*}Choose one of the MIXED Aldol Condensation products ($C_8H_{14}O$) and draw a base-catalyzed mechanism for its formation, starting from acetone and 3-pentanone. Mind the details: curved arrows, charges, lone pairs.