

Enol and Enolate Chemistry

March 6, 2020

- Kinetic vs. Thermodynamic Enolates (cont.)
- Acetoacetic and Malonic ester synthesis
- A quick peek at the Stork enamine synthesis.

110b Teaching Fellows: Felipe Becerril, Christina Beck, Isabelle Cheng, Junha Gu, Nathalie Hong, Shy Lavasani, Allison Liu, Casey Morrison, Jerusalem Nerayo, Eric Tang, Baili Zhong, Martín Acosta Parra.

Chemistry Seminar! Professor Moh El-Naggar, USC, "topic TBA but works with microbial fuel cells and bioenergy applications." Tuesday, March 10, 11:00 AM, Galileo Pryne Auditorium, HMC.

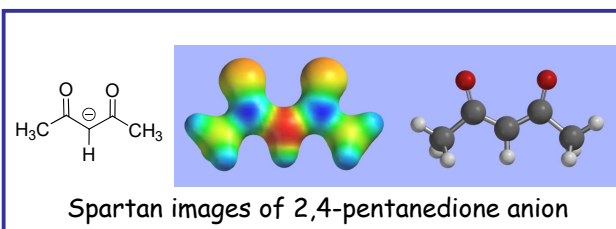
O'Leary office hours: T/Th 9:30-10:00 am, SN 208.

O'Leary's evening review session: Wednesdays 7:00 PM, SN Aud. **Course website:** <http://pages.pomona.edu/~djo04747/110/>

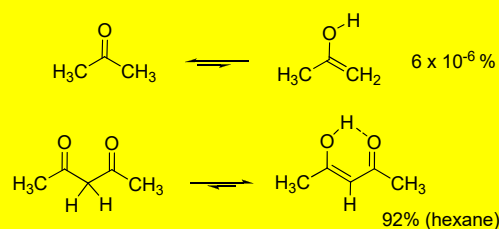
Suggested Problems for Exam 3. 10E/11E Chapter 18 problems: 15, 16, 20, 21, 26, 27, 29, 30, 32, 34.

Some interesting properties of β -dicarbonyl compounds

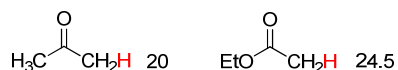
compound	pK_a (H)
	9
	9
	11
	11
	11
	11



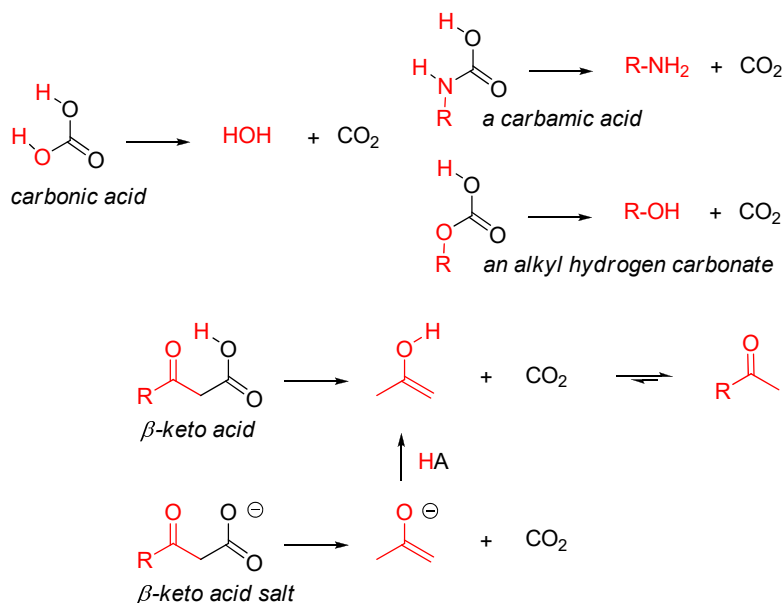
keto-enol tautomerism:



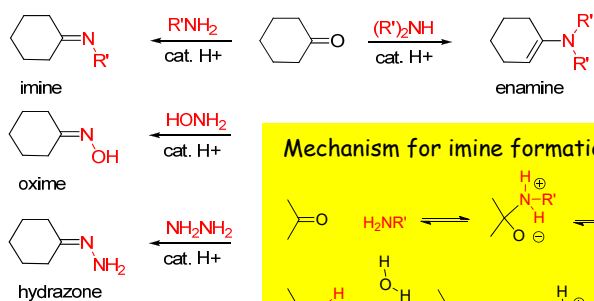
Reference pK_a values:



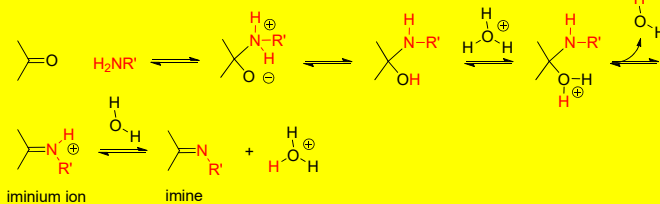
Famous Decarboxylation Reactions



Addition of Primary and Secondary Amines to Aldehydes & Ketones: Imines & Enamines



Mechanism for imine formation:



Mechanism for enamine formation:

