DIECKMANN CONDENSATION

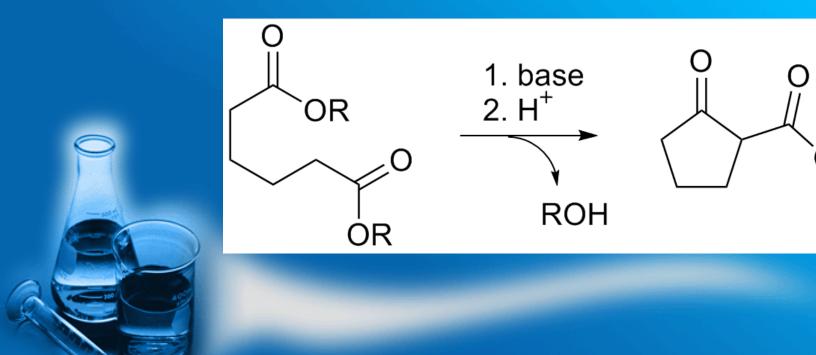


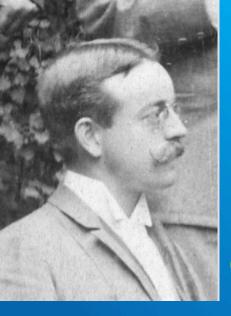
Wang zhiqiang

2015.01

Dieckmann condensation

 The Dieckmann condensation is the intramolecular chemical reaction of diesters with base to give β-ketoesters





♦ Walter Dieckmann
(8 October 1869 – 12
January 1925) was a German chemist.

◆ Dieckmann studied at the University of Munich and became assistant of Adolf von Baeyer



Adolf von Baeyer



von Baever in 1905

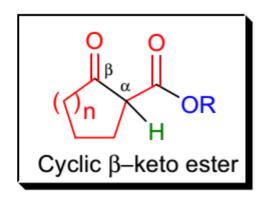
Dieckmann condensation

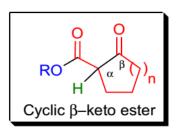
Dieckmann condensation:





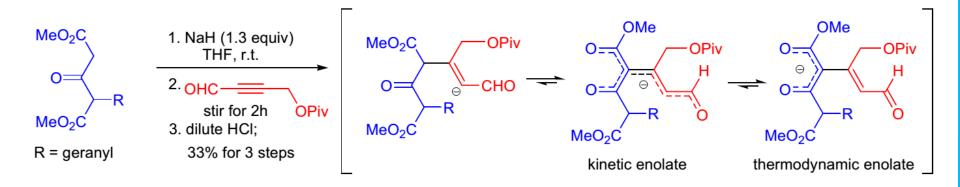
protonation



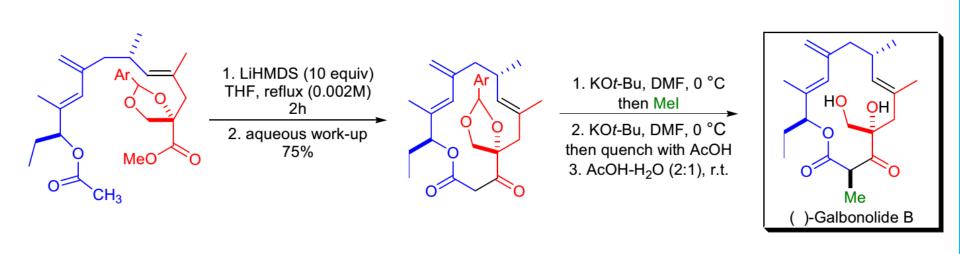


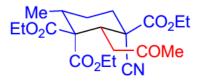
Synthetic Applications:

◆ Total synthesis of mycophenolic acid



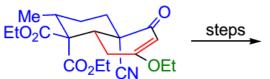
Synthetic Applications:

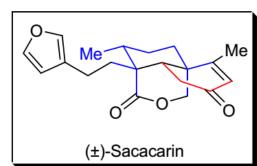




1. NaOEt, EtOH, reflux

2. cat. TsOH, EtOH C_6H_6 - H_2O reflux; 90% for 2 steps







Thank you!

