Reactions Of Ester Enolates With Esters

from chapter(s) \_\_\_\_\_ in the recommended text

## Introduction

## Enolates With Ester Electrophiles (Claisen Condensations)

### Homocoupling Of Esters



*enolates* with esters.





*more*

*stiochiometric*.

*transesterification*.









### Uncontrolled Cross-Claisen Condensations







### Controlled Cross-Claisen Condensations





*only one*













### Intramolecular Reactions Of Ester Enolates With Esters (Dieckmann Reactions)







*form a single point of contact between two rings*.



*more than one*

*less*

*diminished* in









*the same* configurations.

## Decarboxylation Of 3-Oxocarboxylic Acids

### From Carboxylates











### From Carboxylic Acids

*carboxylates* and *carboxylic acids*

*enols* (whereas *carboxylates* produced *enolates*).









## Classical Syntheses Of Amino Acids









*racemates*.







## Thioesters Are More Reactive Than Esters

*stronger*

*better*

*milder*





*huge*

*better*

### Nature’s Equivalent To Claisen Condensations









