

Alkyne Chem

Organic chemistry final exam problem 3 part 1

Reagents and conditions

1. H_2 , Lindlar catalyst (cis)
2. H_2 , Pd/C (trans)

Elimination to make alkynes

Reagents needed:

Alkyne up two carbons that can be eliminated

$\text{NaOH (200}^\circ\text{C)} / \text{NaNH}_2 (50^\circ\text{C)}$



Oxidation of alkynes

Reagents: $\text{KMnO}_4 / \text{H}_2\text{O}$

terminal alkynes form CO_2

internal alkynes form ketones

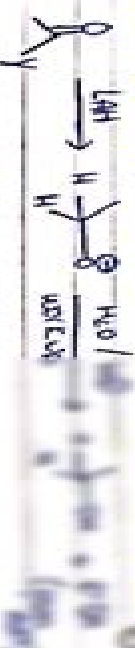
some result in carboxylic acids

cleavage of H_2O (acid)

alkynes form 2 of H_2

terminal 2, one terminal + CO_2

LAH, carboxylic acids, ester



$\text{H} = \text{Cl}, \text{OH}, \text{OR}$

Tautomerization of enols

acid cases

acid: protonation, resonance, deprotonation

base: deprotonation, resonance, protonation

Hydrogenation of alkynes

Reagents:

H_2 , Lindlar catalyst (cis)

H_2 , Pd/C (trans)

H_2 , PtO_2 (trans)

H_2 , $\text{NiCl}_2 \cdot \text{DPP}$ (cis)

H_2 , $\text{NiCl}_2 \cdot \text{DPP}$ (trans)

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Organic Chemistry Alkyne Study Guide

David R. Klein



Organic Chemistry Alkyne Study Guide:

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