

The Dichlorovinylolation Of Enolates

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Explore the critical chemical process of dichlorovinylolation of enolates, a fundamental transformation in organic synthesis. This reaction involves the functionalization of enolates to introduce dichloro-vinyl moieties, playing a significant role in creating complex organic molecules and various vinyl chloride derivatives for pharmaceutical or material science applications.

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The Dichlorovinylolation Of Enolates

synthesis of dichloroacetylene". The Journal of Organic Chemistry. 52 (15): 3461–3462.

doi:10.1021/jo00391a059. "Dichlorovinylolation of an Enolate: 8-Ethynyl-8-Methyl-1... 10 KB (852 words)
- 03:24, 31 January 2024

Enolate Reactions - Direct Alkylation of Ketones With LDA - Enolate Reactions - Direct Alkylation of Ketones With LDA by The Organic Chemistry Tutor 108,960 views 5 years ago 13 minutes, 56 seconds - This organic chemistry video tutorial provides a basic introduction into **enolate**, reactions. It discusses the direct alkylation of ...

Intro

Unsymmetrical Ketone

LDA

Enamine Intermediate

Enamine Intermediate with Other Electrophiles

Enamine Intermediate with Acid Chloride

Enols and Enolates - Reactivity, Halogenation, and Alkylation: Crash Course Organic Chemistry #43

- Enols and Enolates - Reactivity, Halogenation, and Alkylation: Crash Course Organic Chemistry #43 by CrashCourse 46,072 views 2 years ago 12 minutes, 20 seconds - You may know that cows produce methane, which is a big concern when it comes to global heating, but did you know that organic ...

Introduction

Addition Reactions

Enols

Enolates

Halogenation

Alkylation Reaction

Resonance Hybrids

Acetoacetic Ester

Alkylation of Enolates - Ketone + Alkyl Halide - Alkylation of Enolates - Ketone + Alkyl Halide by chemistNATE 15,810 views 8 years ago 5 minutes, 55 seconds - Adding a Ketone to strong base removes the alpha-proton, and allows the **enolate**, ion to nucleophilic-attack R-X ... This creates a ... Enolate Ion Formation and Stability of Alpha Acidic Hydrogen - Enolate Ion Formation and Stability of Alpha Acidic Hydrogen by Leah4sci 95,040 views 7 years ago 13 minutes, 56 seconds - This video is an introduction to reactions at the alpha carbonyl position including alpha halogenation, aldol and

claisen ...

How To Count the Carbons

Functional Groups

Keto Enol Tautomerization

Common Molecules

Carboxylic Acid

Aldehydes

Ketones

Alpha Hydrogen on an Ester

Resonance

Deprotonate the Hydrogen

Regioselective Enolization and Thermodynamic vs. Kinetic Control - Regioselective Enolization and Thermodynamic vs. Kinetic Control by Professor Dave Explains 25,516 views 5 years ago 8 minutes, 49 seconds - We know how to make **enolates**, but when two structurally different **enolates**, are possible, how do we get the one we want?

Analyzation

Thermodynamic Enolate

Kinetic Control

Thermodynamic versus Kinetic Control

Kinetic and thermodynamic enolates | Alpha Carbon Chemistry | Organic chemistry | Khan Academy - Kinetic and thermodynamic enolates | Alpha Carbon Chemistry | Organic chemistry | Khan Academy by Khan Academy Organic Chemistry 65,057 views 10 years ago 8 minutes, 19 seconds - How to form different **enolates**, from ketones. Created by Jay. Watch the next lesson: ...

The Enolate Anion

Enolate Anion

Kinetic Enolate

The Thermodynamic Enolate

Thermodynamic Enolate in the Double Bond

Thermodynamic Enolate

Intro to the Alpha Carbon--Enolates and Enols - Intro to the Alpha Carbon--Enolates and Enols by jOeCHEM 12,740 views 5 years ago 14 minutes, 27 seconds - In this video, we'll look at the carbon **next** to the carbonyl carbon: You'd be surprised at how much is going on there. We'll also ...

The Alpha Carbon

Alpha Carbon

Alpha Deprotonation

Conditions You Must Meet for Alpha Deprotonation

Keto Enol Tautomerism and Enolization - Keto Enol Tautomerism and Enolization by Organic Chemistry with Victor 6,741 views 2 years ago 22 minutes - In this video we'll discuss the keto-**enol**, tautomerism and the enolization equilibrium of aldehydes and ketones in acidic and basic ...

What is tautomerism

How to find enols

Nonanalyzable position

Equilibrium

Acid promoted analyzation

Acidcatalyzed acetone

Base promoted analyzation

Stork Enamine Reaction Mechanism - Alkylation, Acylation, & Michael Addition - Stork Enamine Reaction Mechanism - Alkylation, Acylation, & Michael Addition by The Organic Chemistry Tutor 49,430 views 5 years ago 10 minutes, 50 seconds - This organic chemistry video tutorial provides a basic introduction into the stork enamine reaction mechanism. It explains how to ...

react with an alkyl halide

react with an acid chloride

form a pi bond between the carbon and the nitrogen atom

attack the carbonyl carbon breaking the pi bond

use the secondary amine as a weak base

use the nitrogen atom to expel the oh₂ group

Alpha Halogenation of Ketones - Alpha Halogenation of Ketones by The Organic Chemistry Tutor 56,628 views 5 years ago 6 minutes, 44 seconds - This organic chemistry video tutorial provides the reaction mechanism of the alpha halogenation of ketones under acidic ...

Introduction

Mechanism

Final Product

Practice Problems

David MacMillan's Nobel Prize lecture in chemistry - David MacMillan's Nobel Prize lecture in chemistry by Princeton University 27,451 views 2 years ago 32 minutes - On December 8, 2021, Princeton chemist David MacMillan, a 2021 Nobel laureate in chemistry and the James S. McDonnell ...

Intro

Catalysis

Asymmetric

Organo

Why Organo

First photograph

Catalysts

Naming

Generic activation mode

New directions

Applications

democratizing catalysis

the future of catalysis

thank you

family

other people

Carlos Barros

Mom and Dad

Would they have been proud

Mixed (crossed) aldol condensation | Alpha Carbon Chemistry | Organic chemistry | Khan Academy -

Mixed (crossed) aldol condensation | Alpha Carbon Chemistry | Organic chemistry | Khan Academy

by Khan Academy Organic Chemistry 116,658 views 10 years ago 9 minutes, 25 seconds - How to find the product of a mixed (crossed) aldol condensation. Created by Jay. Watch the next lesson: ...

Deprotonation

Alkoxide Intermediate

Final Product

Aldol Condensation - Aldol Condensation by Professor Dave Explains 237,980 views 9 years ago 5 minutes - It's time for **enolate**, chemistry! Protons alpha to a carbonyl are so sassy. That's what allows for Aldol Condensation to occur. Watch ...

Introduction

Enolate Chemistry

Outro

What is tautomerism || class 11|| organic chemistry - What is tautomerism || class 11|| organic chemistry by V Science Academy 39,884 views 1 year ago 1 minute, 43 seconds - Tautomerism is a type of structural isomerism What is tautomerism class 11 #tautomerism.

Tautomerism structural isomerism - Tautomerism structural isomerism by Komali Mam 233,731 views 7 years ago 6 minutes, 12 seconds - This video gives the basic idea of tautomerism . If u like my video please click on like, share it and subscribe to my channel.

NaBH₄, LiAlH₄, DIBAL Reduction Mechanism, Carboxylic Acid, Acid Chloride, Ester, & Ketones - NaBH₄, LiAlH₄, DIBAL Reduction Mechanism, Carboxylic Acid, Acid Chloride, Ester, & Ketones by The Organic Chemistry Tutor 463,148 views 7 years ago 38 minutes - This organic chemistry tutorial provides the reduction mechanism of ketones and acid chlorides to alcohols using NaBH₄ and ...

Cyclohexanone

Protonate the Alkoxide Ion

Nucleophilic Addition Reaction

Lithium Aluminum Hydride

Mechanism between Lithium Aluminum Hydride and the Ester

Reduction of a Carboxylic Acid with Lithium Aluminum Hydride

Coordinate Covalent Bond

Reduce the Aldehyde to an Alcohol

The Resonance Structure of the Amide

Mechanism

Nucleophilic Addition Reaction Mechanism, Grignard Reagent, NaBH₄, LiAlH₄, Imine, Enamine, Reduction - Nucleophilic Addition Reaction Mechanism, Grignard Reagent, NaBH₄, LiAlH₄, Imine, Enamine, Reduction by The Organic Chemistry Tutor 204,747 views 7 years ago 41 minutes - This organic chemistry video tutorial focuses the mechanism of nucleophilic addition reaction to aldehydes and ketones.

add a nucleophile

grabs the hydrogen from H₂O

attack the carbon atom in the carbonyl group

turn this into an alcohol using sodium borohydride

add a hydrogen atom

put an ester with lithium aluminum hydride

protonate the alkoxide

let's react the ester with methyl magnesium bromide

attack the carbonyl carbon

acidify the solution with hydronium

react it with sodium borohydride

remove any remaining unreacted dipole molecules in the solution

combine a cyclic ester with sodium borohydride

acidify the solution with H₂O

add a grignard reagent

reduce the ketone

react it with carbon dioxide

add two carbon atoms to the benzene ring

acidify the solution with the hydronium ion

add to the carbonyl carbon

react it with a grignard reagent

add a CN group to the beta carbon

grab a hydrogen from the solvent

react it with a primary amine

behave as a nucleophile

protonate the alcohol

remove the hydrogen

form a double bond

add a reducing agent instead of using sodium borohydride

Enols and Enolates: How to make them & general reactions - Enols and Enolates: How to make them & general reactions by Molecular Memory 13,142 views 6 years ago 7 minutes - In this lesson, Dr. KP reviews the two types of nucleophilic addition to aldehydes and ketones and shows how **enolates**, and enols ...

Aldehyde and Ketone Reactivity

Acetone

Resonance Form for Acetone

Alpha Halogenation

Limitations

deprotonation of ketones with LDA to make enolates - deprotonation of ketones with LDA to make enolates by Chem Help ASAP 1,308 views 4 years ago 4 minutes, 8 seconds - Lithium diisopropylamide, or LDA, deprotonates ketones by removing a proton from the alpha-carbon to make **enolates**,.

21.1 Acidity of the Alpha Hydrogen | Organic Chemistry - 21.1 Acidity of the Alpha Hydrogen | Organic Chemistry by Chad's Prep 15,211 views 2 years ago 16 minutes - Chad provides a comprehensive introduction to the acidity of the alpha hydrogen for carbonyl compounds. This includes an ...

Lesson Introduction

Intro to Alpha Hydrogens and Enolates

Relative Acidity of Various Alpha Hydrogens

Introduction to LDA

Enols: Acid-Catalyzed Tautomerization

Keto Enol Tautomerism - Acidic & Basic Conditions - Keto Enol Tautomerism - Acidic & Basic Conditions by The Organic Chemistry Tutor 233,986 views 7 years ago 11 minutes, 15 seconds - This organic chemistry video tutorial explains the concept of the keto **enol**, tautomerism / tautomerization process. It provides the acid ...

Intro

Intermolecular Hydrogen Bond

Example

Mechanism

Acidcatalyzed Mechanism

Reactions of Enolates - Racemization and Halogenation - Reactions of Enolates - Racemization and Halogenation by Will Gutekunst 668 views 3 years ago 14 minutes, 15 seconds - So now we need to look at some different things that can happen the the simplest reaction you can have with enols and **enolates**, ...

Enols and Enolates 2: Deuterium Exchange - Enols and Enolates 2: Deuterium Exchange by Jonathan Aminov 2,161 views 1 year ago 20 minutes - Welcome back everyone in this video we're going to be going over more enols and **enolates**, but this time we're going to be going ...

11.09 Alkylation of Enolates - 11.09 Alkylation of Enolates by Michael Evans 5,252 views 4 years ago 5 minutes, 40 seconds - Use of **enolates**, as nucleophiles in SN2 alkylation of alkyl halides or pseudohalides. 00:00 **Enolates**, as Nucleophiles in ...

Enolates as Nucleophiles in Nucleophilic Substitution

Alkylation of Ester Enolates

Alkylation of Kinetic Enolates Derived from Ketones

Challenges with Weaker Bases

Chemistry Vignettes: Alkylation of enolates - Chemistry Vignettes: Alkylation of enolates by Royal Society Of Chemistry 3,679 views 10 years ago 4 minutes - This screencast lecture shows the mechanism of the alkylation of **enolates**,. For more please go to the Royal Society of Chemistry; ...

Formation of Enolates - Formation of Enolates by Pearson+ Channels 6,908 views 9 years ago 2 minutes, 27 seconds - Clutch Prep = Textbook specific videos to help you pass your toughest science classes.

Alkylation of enolates - Alkylation of enolates by Frostburg State University Chemistry Department 788 views 5 years ago 7 minutes, 12 seconds - Aldehydes, ketones, and esters can be alkylated at their alpha position by first converting to the **enolate**,.

LDA and Lithium Enolates - LDA and Lithium Enolates by Will Gutekunst 5,803 views 3 years ago 14 minutes, 41 seconds - Similarly we can have these lithium **enolates**, react with other types of lecture files beyond just simple carbonyl compounds for ...

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