Cinnamic Acid Knoevenagel Condensation Mechanism

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Knoevenagel Condensation Doebner Modification. The condensation of carbon acid compounds with aldehydes to afford α,β-unsaturated compounds. The Doebner Modification, which is possible in the presence of carboxylic acid groups, includes a pyridine-induced decarboxylation.

Knoevenagel Condensation - Organic Chemistry
The Knoevenagel condensation (pronounced ['knø:vəna:gl̩]) reaction is an organic reaction named after Emil Knoevenagel.It is a modification of the aldol condensation.. A Knoevenagel condensation is a nucleophilic addition of an active hydrogen compound to a carbonyl group followed by a dehydration reaction in which a molecule of water is eliminated (hence condensation).

Knoevenagel condensation - Wikipedia
Knoevenagel Condensation Examples Benzaldehyde Cinnamic Acid Coumarin Mechanism of Knoevenagel Condensation In the first step of this reaction, an amine base deprotonates the complex methylene (usually a diketone) to form a resonance stabilized anion (enolate).

Knoevenagel Condensation: Definition, Examples and Mechanism
The Knoevenagel reaction in its simplest form is the condensation of malonic esters (or their analogues) with aldehydes or ketones in the presence of an amine base catalyst plus a small amount of carboxylic acid (or amino acid) cocatalyst. The condensation products are often α,β-unsaturated carbonyl compounds. For example,

Experiment 5: Preparation of Trans-cinnamic Acid from ...
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Cinnamic Acid Knoevenagel Condensation Mechanism
Protocol for optimized Knoevenagel condensation: Malonic acid (1.0 g, 10 mmol) was dissolved in a minimum amount (e.g. 2.5 mL) of solvent (often ethyl acetate although ethanol and water were also used). Syr-ingaldehyde (1a, 0.90 g, 5 mmol) and piperidine Figure 1. General reaction scheme for pyridine-free synthesis of cinnamic acids.

The green Knoevenagel condensation: solvent-free ...
The Knoevenagel condensation has been used in the synthesis of different types of dyes. Thiophene derivatives (345), which may be useful for dyeing synthetic fibers or plastic, have been prepared by condensation of the azo aldehydes (344) with a variety of methylene compounds. 332 Dyes (347) exhibiting positive solvatochromatical and negative thermochromatical properties are prepared by ...

Knoevenagel Condensation - an overview | ScienceDirect Topics
With this procedure malonic acid itself, rather than its diester, can be effectively condensed with benzaldehyde to produce trans-cinnamic acid. A One-Step Synthesis of Cinnamic Acids Using Malonic Acid: The Verley-Doebner Modification of the Knoevenagel Condensation | Journal of Chemical Education

A One-Step Synthesis of Cinnamic Acids Using Malonic Acid ...
The mechanism of the Doebner modification of the Knoevenagel reaction has been assumed by many authors (see thesis) to proceed through an isolable intermediate, a benzalmalonic (or ethylidene malonic) acid, although there has not been any proof for this mechanism reported in the literature.

The Doebner modification of the Knoevenagel reaction.
Also known as Knoevenagel–Doebner.Base catalyzed aldol condensation of aromatic aldehydes 1, aromatic ketones or benzaldibromide 5 with an activated methylene group of a malonic ester, malonic acid 6 or cyanoacetic ester 2.Also applicable to heteroaromatic aldehydes. 7 Condensation with malonic anhydride in the presence of dihydropyridines as hydride donors leads to phenylacetic acid. 11 ...

Doebner Modification - an overview | ScienceDirect Topics
The Knoevenagel condensation is an organic reaction used to convert an aldehyde or ketone and an activated methylene to a substituted olefin using an amine base as a catalyst. The reaction begins by deprotonation of the activated methylene by the base to give a resonance stabilized

enolate.

Knoevenagel condensation ~ Name-Reaction.com
The free energy profile of the piperidine catalyzed Knoevenagel condensation reaction of acetylacetone with benzaldehyde has been obtained by theoretical calculations. The carbinolamine formation step involves catalysis by methanol solvent, and its decomposition takes place via hydroxide ion elimination without a classical transition state, leading to the iminium ion. Hydroxide ion ...

Mechanism of the Piperidine-Catalyzed Knoevenagel ...
In the Doebner modification, the decarboxylative condensation of malonic acid and aldehydes mediated by pyridine gives α,β-unsaturated acids. General References Knoevenagel, E. Ber.