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2013 Reaction Of Cinnamic Acid With Thionyl Chloride To

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2013 Reaction of cinnamic acid with thionyl chloride to cinnamoyl chloride $\text{OH O O Cl} + \text{SOCl}_2 + \text{HCl} + \text{SO}_2$ $\text{C}_9\text{H}_8\text{O}_2$ (148.2) (119.0) $\text{C}_9\text{H}_7\text{ClO}$ (166.6) Classification Reaction types and substance classes reaction of the carbonyl group in carboxylic acids carboxylic acid, carboxylic acid chloride Work methods

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Cinnamic acid is an organic compound with the formula $\text{C}_6\text{H}_5\text{CH}=\text{CHCOOH}$. It is a white crystalline compound that is slightly soluble in water, and freely soluble in many organic solvents. Classified as an unsaturated carboxylic acid, it occurs naturally in a number of plants. It exists as both a cis and a trans isomer, although the latter is more common.

Cinnamic acid - Wikipedia

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reaction has as rate determining step the electrophilic addition of chlorine atom to the double bond.

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Keywords: styrene, cinnamic acid, Hunsdiecker reaction, trihaloisocyanuric acid, DFT Introduction The halodecarboxylation of carboxylic acids, also known as Hunsdiecker reaction, is an important route to the preparation of halogenated compounds.

A Green Hunsdiecker Reaction of Cinnamic Acids

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BACKGROUND. Principle: The reaction between aromatic aldehyde and an aliphatic anhydride capable of providing an ' active methylene ' moiety in the presence of a basic catalyst, such as: acetate ion and a hydronium ion, which yields an α,β -unsaturated carboxylic acid and a mole of acetic acid i.e. interaction between benzaldehyde and acetic anhydride in presence of acetate ion and a ...

Synthesis of Cinnamic Acid from Benzaldehyde - Labmonk

The aromatic compounds cinnamic and p-hydroxycinnamic acids (pHCAs) are phenylpropanoids having applications as precursors for the synthesis of thermoplastics, flavoring, cosmetic, and health products. These two aromatic acids can be obtained by chemical synthesis or extraction from plant tissues. However, both manufacturing processes have shortcomings, such as the generation of toxic ...

Production of Cinnamic and p-Hydroxycinnamic Acids in ...

Cinnamic acid is a monocarboxylic acid that consists of acrylic acid bearing a phenyl substituent at the 3-position. It is found in Cinnamomum cassia. It has a role as a plant metabolite. It is a member of styrenes and a member of cinnamic acids.

Cinnamic acid | C₉H₈O₂ - PubChem

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Reaction of cinnamic acid with $\text{Br}_2/\text{Na}_2\text{CO}_3$. Bookmark this question. Show activity on this post. The first reaction produces benzaldehyde, and the next one (perkin's condensation) produces Cinnamic acid. (X) Now the treatment of X with $\text{Br}_2/\text{Na}_2\text{CO}_3$ is what's troubling me. Na_2CO_3 being a base, abstracts the hydrogen from the COOH group.

organic chemistry - Reaction of cinnamic acid with Br_2 ...

Cinnamic acid (CA, trans-3-phenylacrylic acid, trans-3-phenyl-2-propenoic acid) and its derivatives are naturally occurring substances found in various plants. They are important intermediates in biosynthetic pathways of secondary metabolites, which play key roles in plant growth, development, reproduction and disease resistance [1].

Design, Synthesis and Biological Evaluation of Novel ...

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Perkin reaction mechanism includes the reaction between aromatic aldehydes, the aliphatic acid anhydride, and the alkali salt of the acid to give cinnamic acid derivatives. The Perkin reaction is an organic chemical reaction named after its discoverer – William Henry Perkin. Example. The Perkin reaction gives an alpha, beta-unsaturated aromatic acid via the aldol condensation of an aromatic aldehyde and an acid anhydride. The alkali salt of the acid is also present. This alkali salt acts ...

Perkin Reaction Mechanism - In Depth Explanation and ...

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Chlorogenic acid (5-caffeoylquinicacid) (Figure 2) is perhaps the most important cinnamic acid observed in fruits, contributing 25% of the dry weight of the bilberry (Vaccinium) fruit.

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