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Hydroxycinnamic Acid

Page 7/45

**Antioxidants: An
Electrochemical Overview**
**The Perkin synthesis of
cinnamic acids is considered
to involve reaction of the
enolate anion derived from
the acid anhydride with the
aldehyde, giving rise to the**

alkoxide (391). Intramolecular acylation follows and the resulting β -acyloxy derivative undergoes elimination to the unsaturated acid (Scheme 125).

US6054607A - Process for the

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preparation of cinnamic acid

...

The Perkin reaction is an organic reaction developed by English chemist William Henry Perkin that is used to make cinnamic acids. It gives an α,β -unsaturated aromatic acid by

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the aldol condensation of an aromatic aldehyde and an acid anhydride, in the presence of an alkali salt of the acid. The alkali salt acts as a base catalyst, and other bases can be used instead. Several reviews have been

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written.

Cinnamic acid - Wikipedia
A process for the preparation
of a cinnamic acid ester
comprises condensing a
benzaldehyde with an acetic
acid ester in the presence of a

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base. The reaction mixture is then treated, without adding an additional solvent or after adding an additional solvent, with an acid to convert a 3-alkoxy-3-phenylpropionic acid ester in the reaction mixture into a corresponding

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cinnamic acid ester.

**Question 7 Multistep
Synthesis of Cinnamic Acid
The antioxidant activity of
four derivatives of benzoic
acid was systematically
compared with the activity of**

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the four homologous derivatives of cinnamic acid. The couples of compounds differed for the kind of aromatic substitution (p-hydroxy, p-hydroxymethoxy, p-hydroxydimethoxy, dihydroxy). The antioxidant

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**activity was measured using
(i) a competition kinetic test,
to measure the relative ...**

**Effect of β -Alanine on The
Preparation of 4-Ethoxy ...**

CHEM 51LB 1 Rev 6/4/14

CHEM 51LB: EXPERIMENT 2

**STEREOCHEMISTRY OF
BROMINE ADDITION TO TRANS-
CINNAMIC ACID** In this
experiment, we will learn how
experimental results can be
used to propose a reaction
mechanism. Specifically, we
will study the mechanism of

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**addition to an alkene using
trans- cinnamic acid and
molecular bromine.**

**Cinnamic Acid - an overview |
ScienceDirect Topics
Pre-lab questions for
Bromination of trans-**

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Cinnamic Acid to 2,3-dibromo-3-Phenylpropanoic Acid. 1. Why should you add more Br₂ to the reaction mixture if it turns colorless during the course of the reaction? 2. Predict the products likely to be formed via the anti-

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**addition of
Br₂/Dichloromethane to trans-
cinnamic acid. 3.**

**Cinnamic acid | C₉H₈O₂ -
PubChem**

**Therefore, it would be
expected that the**

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**introduction of a third
hydroxyl
(3,4,5-trihydroxycinnamic
acid), a methoxyl (sinapic
acid), or a bromide
(5-bromocaffeic and
5-bromoferulic acids)
substituent in position-5 of**

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the aromatic ring of the cinnamic acid could affect the formation and/or stabilization of the radical intermediate causing a ...

Draw The Mechanism Of The Bromination Reaction Bet ...

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(Q1) When 0.252 g of trans-cinnamic acid was mixed in 2.5 mL glacial acetic acid and introduced to 0.434g pyridinium tribromide, the resulting product reflects an addition reaction. In general, reactions take place to

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achieve its lowest Gibb's free energy because it's at this point where a structure is most stable; in this case, the ...

Solved: Pre-lab Questions For Bromination Of Trans-Cinnami

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...

For the second reaction, I describe 4 possibilities that you may think of (scrub to the on... Skip navigation ...

Stereochemistry of Bromine Addition to trans-Cinnamic Acid - Duration: 7:34 ...

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**Cinnamic Acid - an overview |
ScienceDirect Topics**
**Another way of preparing
cinnamic acid is by the
Knoevenagel condensation
reaction. The reactants for
this are benzaldehyde and**

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**malonic acid in the presence
of a weak base, followed by
acid-catalyzed
decarboxylation.**

**Benzoic and Cinnamic Acid
Derivatives as Antioxidants ...
Draw the mechanism of the**

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bromination reaction between trans cinnamic acid and bromine. Be sure to include stereochemistry(wedge and dashed structures). The product obtained was the racemic mixture of (2R,3S) and (2S,3R) of 2,3-dibromo-3-

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phenylpropanoic acid.

**A Green Hunsdiecker Reaction
of Cinnamic Acids
Cinnamic acids play key roles
in the formation of other
more complex phenolic
compounds. The cinnamic**

acids (Figure 1) are rarely present in uncombined forms, occurring primarily as esters of quinic acid, but may also be esterified to malic or tartaric acids, or sugars. Chlorogenic acid (5-caffeoylquinic acid) (Figure

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2) is perhaps the most important cinnamic acid observed in fruits ...

D2 bromination of transcinnamic acid - Louis Ashodian Rich ...

This reaction is unsuitable for

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the synthesis of cinnamic acid derivatives with electron-donating substituents in the aromatic ring. For example, the yields of 4-methoxycinnamic acid and 4-ethoxycinnamic acid were 30% and 36%, respectively.

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Perkin reaction - Wikipedia
**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**

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a role as a plant metabolite. It is a member of styrenes and a member of cinnamic acids.

The Reaction of N-Isocyaniminotriphenylphosphorane With

...

Cinnamic acid (CA,

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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].**

2013 Reaction Of Cinnamic Acid

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2013 Reaction of cinnamic acid with thionyl chloride to cinnamoyl chloride
OH O O Cl
+ SOCl₂ + HCl + SO₂ C₉H₈O₂ (148.2) (119.0) C₉H₇ClO (166.6)
Classification
Reaction types and substance classes reaction of the

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**carbonyl group in carboxylic
acids carboxylic acid,
carboxylic acid chloride Work
methods**

**2013 Reaction of cinnamic
acid with thionyl chloride to**

...

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(2013). The Reaction of N-Isocyaniminotriphenylphosphorane With Biacetyl in the Presence of (E)-Cinnamic Acids: Synthesis of Fully Substituted 1,3,4-Oxadiazole

...

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**Design, Synthesis and
Biological Evaluation of Novel**

...

**reaction has as rate
determining step the
electrophilic addition of
chlorine atom to the double
bond. Keywords: styrene,**

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cinnamic acid, Hunsdiecker reaction, trihaloisocyanuric acid, DFT Introduction The halodecarboxylation of carboxylic acids, also known as Hunsdiecker reaction, 1 is an important route to the preparation of halogenated

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compounds.

**Bromination Of Trans-
Cinnamic Acid And Trans-
Stilbene ...**

**Louis Ashodian Rich
Brzozowski Organic Chemistry
Lab 2203 November 12, 2012**

Page 42/45

Bromination of trans-Cinnamic Acid: erythro-2,3-Dibromo-3-phenylpropanoic Acid. Objective: This experiment will be conducted in order to explain the reaction for bromination of an alkene in this case that

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alkene being trans-Cinnamic Acid. Procedure: Refer to lab notebook. The only modification to the experiment's ...

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[cf1a9285292c7fe22492a272e
806055d](#)