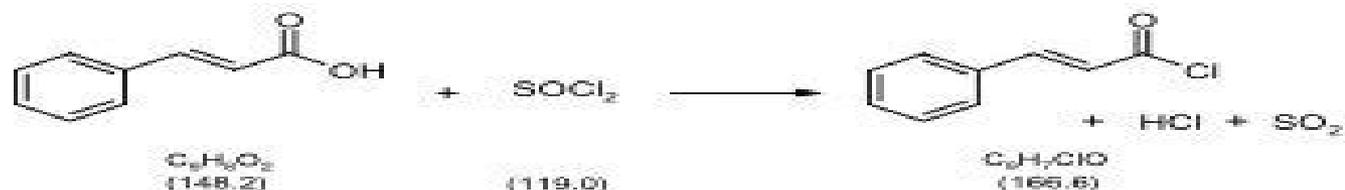


2013 Reaction of cinnamic acid with thionyl chloride to cinnamoyl chloride



Classification

Reaction types and substance classes

reaction of the carbonyl group in carboxylic acids
 carboxylic acid, carboxylic acid chloride

Work methods

Working with moisture exclusion, stirring with magnetic stir bar, draining of gases, working with wash bottles, distilling under reduced pressure, heating with oil bath

Instruction (batch scale 100 mmol)

Equipment

100 mL three-neck flask, reflux condenser, bubble counter, 2 wash bottles, distillation apparatus, heatable magnetic stirrer, magnetic stir bar, hot-air dryer, vacuum pump, oil bath

Substances

<i>trans</i> -cinnamic acid (mp 135-136 °C)	14.8 g (100 mmol)
thionyl chloride (freshly distilled) (bp 76 °C)	17.8 g (10.9 mL, 150 mmol)
aqueous solution of sodium hydroxide (20%)	100 mL

Reaction

The reaction apparatus consists of a 100 mL three-neck flask with magnetic stir bar and reflux condenser. For draining of the evolving gases HCl and SO₂ the reflux condenser is connected consecutively to a bubble counter filled with paraffin oil, an empty safety wash bottle and a wash bottle filled with 100 mL of an aqueous solution of sodium hydroxide (20%).

The reaction flask is charged with 17.8 g (10.9 mL, 150 mmol) freshly distilled thionyl chloride. Whilst stirring, 14.8 g (100 mmol) *trans*-cinnamic acid is added in several portions by means of a powder funnel. The last added portions are firstly insoluble, accordingly stirring with the magnetic stirrer is temporarily not possible. The remaining flask openings are closed with stoppers and the reaction mixture is initially slowly heated whilst stirring (as far

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 - The Rise of Digital Reading 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To

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 - 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To User Reviews and Ratings
 - 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To and Bestseller Lists
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 - 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To eBook Subscription Services
 - 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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 - 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Highlighting and Note-Taking 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Interactive Elements 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 8. Staying Engaged with 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 9. Balancing eBooks and Physical Books 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Setting Reading Goals 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To

- Fact-Checking eBook Content of 2013 Reaction Of Cinnamic Acid With Thionyl Chloride To
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
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