

**Q1.** Which one of the following is **not** a correct statement about vitamin C, shown below?



- A** It is a cyclic ester.
- B** It can form a carboxylic acid on oxidation.
- C** It decolourises a solution of bromine in water.
- D** It is a planar molecule.

**(Total 1 mark)**

**Q2.** In which one of the following mixtures does a redox reaction occur?

- A** ethanal and Tollens' reagent
- B** ethanoyl chloride and ethanol
- C** ethanal and hydrogen cyanide
- D** ethanoic acid and sodium hydroxide

**(Total 1 mark)**

**Q3.** Propanoic acid reacts with methanol in the presence of a small amount of concentrated sulphuric acid. The empirical formula of the ester formed is

- A** CH<sub>3</sub>O
- B** C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>
- C** C<sub>3</sub>H<sub>7</sub>O<sub>2</sub>
- D** C<sub>3</sub>H<sub>9</sub>O

**(Total 1 mark)**

# Multiple Choice On Carboxylic Acids

**R Pring**



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## **Table of Contents Multiple Choice On Carboxylic Acids**

1. Understanding the eBook Multiple Choice On Carboxylic Acids
  - The Rise of Digital Reading Multiple Choice On Carboxylic Acids
  - Advantages of eBooks Over Traditional Books
2. Identifying Multiple Choice On Carboxylic Acids
  - 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 Multiple Choice On Carboxylic Acids
  - User-Friendly Interface
4. Exploring eBook Recommendations from Multiple Choice On Carboxylic Acids
  - Personalized Recommendations
  - Multiple Choice On Carboxylic Acids User Reviews and Ratings
  - Multiple Choice On Carboxylic Acids and Bestseller Lists
5. Accessing Multiple Choice On Carboxylic Acids Free and Paid eBooks
  - Multiple Choice On Carboxylic Acids Public Domain eBooks
  - Multiple Choice On Carboxylic Acids eBook Subscription Services

- Multiple Choice On Carboxylic Acids Budget-Friendly Options
- 6. Navigating Multiple Choice On Carboxylic Acids eBook Formats
  - ePub, PDF, MOBI, and More
  - Multiple Choice On Carboxylic Acids Compatibility with Devices
  - Multiple Choice On Carboxylic Acids Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Multiple Choice On Carboxylic Acids
  - Highlighting and Note-Taking Multiple Choice On Carboxylic Acids
  - Interactive Elements Multiple Choice On Carboxylic Acids
- 8. Staying Engaged with Multiple Choice On Carboxylic Acids
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Multiple Choice On Carboxylic Acids
- 9. Balancing eBooks and Physical Books Multiple Choice On Carboxylic Acids
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Multiple Choice On Carboxylic Acids
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Multiple Choice On Carboxylic Acids
  - Setting Reading Goals Multiple Choice On Carboxylic Acids
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Multiple Choice On Carboxylic Acids
  - Fact-Checking eBook Content of Multiple Choice On Carboxylic Acids
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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