

Chemistry

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(Chapter 11) (Alcohols Phenols and Ethers) (Exercises)

(Class 12)



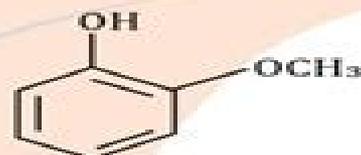
Question 11.15:

Explain why is *ortho* nitrophenol more acidic than *ortho* methoxyphenol?

Answer 11.15:



o - Nitrophenol



o - Methoxyphenol

The nitro-group is an electron-withdrawing group. The presence of this group in the *ortho* position decreases the electron density in the O-H bond. As a result, it is easier to lose a proton. Also, the *o*-nitrophenoxide ion formed after the loss of protons is stabilized by resonance. Hence, *ortho* nitrophenol is a stronger acid.

On the other hand, methoxy group is an electron-releasing group. Thus, it increases the electron density in the O-H bond and hence, the proton cannot be given out easily.

For this reason, *ortho*-nitrophenol is more acidic than *ortho*-methoxyphenol.

Question 11.16:

Explain how does the -OH group attached to a carbon of benzene ring activate it towards electrophilic substitution?

Answer 11.16:

The -OH group is an electron-donating group. Thus, it increases the electron density in the benzene ring as shown in the given resonance structure of phenol.



As a result, the benzene ring is activated towards electrophilic substitution.

Question 11.17:

Give equations of the following reactions:

- (i) Oxidation of propan -1-ol with alkaline KMnO₄ solution.
- (ii) Bromine in CS₂ with phenol.
- (iii) Dilute HNO₃ with phenol.
- (iv) Treating phenol with chloroform in presence of aqueous NaOH.

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Chapter 12 Chemistry

Mark Steyvers



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Hearings and Reports on Atomic Energy United States. Congress. Joint Committee on Atomic Energy,1956

Hearings United States. Congress. Joint Committee ...,1956 **Shortage of Scientific and Engineering Manpower**
United States. Congress. Joint Committee on Atomic Energy,1956 **Integrated Physics and Chemistry, Chapter 12,**
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pressure density wave motion light electricity circuits current power safety with electricity discovery by design careers in
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Raleigh,2018-03-15 These high school girls are at it again but this time with additional help from an unlikely source the son
of the missing preacher who was the principal of the closed Catholic School nearby He has his suspicions on the head
administrator on the disappearance of his father and the demise of their school However the girls are already wrapped up
with a recent turn of event on a string of botched alcoholic beverages more commonly linked in Ireland Can the girls solve
this fatal case and help their friend **An Introduction to Organic Chemistry** Alexander Lowy,Benjamin Harrow,1924

Baccharis Geraldo Wilson Fernandes,Yumi Oki,Milton Barbosa,2022-02-23 This book has a broad scope and provides a
comprehensive overview of the most up to date knowledge of the plant genus Baccharis The book is organized into four
major topics encompassing the evolution ecology chemistry as well as environmental and medical applications of the genus
This publication is a major reference for an audience of practising researchers academics PhD students and other scientists

in a wide ranging collection of fields from Sociology to Medicine to bioeconomy *The High School Journal* ,1921

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Table of Contents Chapter 12 Chemistry

1. Understanding the eBook Chapter 12 Chemistry
 - The Rise of Digital Reading Chapter 12 Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 12 Chemistry
 - 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 Chapter 12 Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 12 Chemistry
 - Personalized Recommendations
 - Chapter 12 Chemistry User Reviews and Ratings
 - Chapter 12 Chemistry and Bestseller Lists
5. Accessing Chapter 12 Chemistry Free and Paid eBooks
 - Chapter 12 Chemistry Public Domain eBooks
 - Chapter 12 Chemistry eBook Subscription Services
 - Chapter 12 Chemistry Budget-Friendly Options
6. Navigating Chapter 12 Chemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 12 Chemistry Compatibility with Devices
 - Chapter 12 Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 12 Chemistry
 - Highlighting and Note-Taking Chapter 12 Chemistry
 - Interactive Elements Chapter 12 Chemistry
8. Staying Engaged with Chapter 12 Chemistry

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 12 Chemistry
9. Balancing eBooks and Physical Books Chapter 12 Chemistry
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 12 Chemistry
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 12 Chemistry
- Setting Reading Goals Chapter 12 Chemistry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 12 Chemistry
- Fact-Checking eBook Content of Chapter 12 Chemistry
 - 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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