

# Chemistry

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

(Class 12)



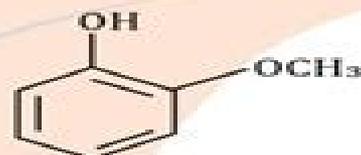
## Question 11.15:

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 KMnO<sub>4</sub> solution.
- (ii) Bromine in CS<sub>2</sub> with phenol.
- (iii) Dilute HNO<sub>3</sub> with phenol.
- (iv) Treating phenol with chloroform in presence of aqueous NaOH.

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## Chapter 12 Chemistry

**United States. Congress. Joint  
Committee on Atomic Energy.  
Subcommittee on Research and  
Development**

## Chapter 12 Chemistry:

**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,**  
**Activities** Paradigm Accelerated Curriculum,2005-01-01 Key topics speed energy force simple machines Laws of Motion heat  
pressure density wave motion light electricity circuits current power safety with electricity discovery by design careers in  
physics Newton Franklin IPC consists of twelve chapters of text and twelve companion student activity books This course  
introduces students to the people places and principles of physics and chemistry It is written by internationally respected  
scientist author John Hudson Tiner who applies the vignette approach which effectively draws readers into the text and holds  
attention The author and editors have deliberately avoided complex mathematical equations in order to entice students into  
high school level science Focus is on the people who contributed to development of the Periodic Table of the Elements  
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due to poor mathematical and reading comprehension skills The course is designed for two high school transcript credits  
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completed for one transcript credit for Physical Science Physics or Chemistry Compliance with state and local academic  
essential elements should be considered when specific chapters are selected by teachers As applicable to local policies  
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Chemistry for one credit or Integrated Physics and Chemistry for two credits May require supplemental local classes labs

*Shortage of Scientific and Engineering Manpower* United States. Congress. Joint Committee on Atomic Energy.  
Subcommittee on Research and Development,1956      Experiments Philip E. Edelman,1914      Cryptic Pursual Gabriella  
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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