

# Chemistry

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

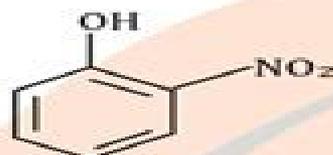
(Class 12)



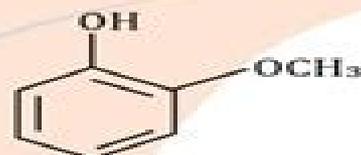
## Question 11.15:

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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*Hearings and Reports on Atomic Energy* United States. Congress. Joint Committee on Atomic Energy, 1956 Hearings  
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Congress. Joint Committee on Atomic Energy, 1956 *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 *Ice Goddess Spoiled* Chasiaty  
Bradshaw , From the very start he alone indulges a distant untouchable goddess Beneath his quiet care her icy composure  
begins to crack while the campus erupts in jealousy and disbelief As the flawless school idol spirals out of control one truth  
becomes undeniable once the ice melts there is no turning back **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  
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