

# Chemistry

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

(Class 12)



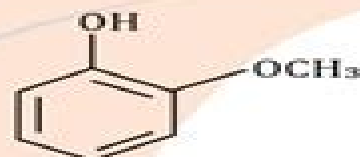
## Question 11.15:

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  $\text{KMnO}_4$  solution.
- (ii) Bromine in  $\text{CS}_2$  with phenol.
- (iii) Dilute  $\text{HNO}_3$  with phenol.
- (iv) Treating phenol with chloroform in presence of aqueous  $\text{NaOH}$ .

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