

CBSE Class 12 Chemistry Chapter 11 Alcohols, Phenols, and Ethers Worksheet – Set 4

- Q1. What is the chemical name of picric acid?
- (a) 2, 4, 6-tribromo phenol
- (b) 2, 4, 6-trinitro phenol
- (c) 2, 4, 6-trifluoro phenol
- (d) None of the above
- Q2. Acid-catalysed dehydration of tertiary butanol is more rapid than n-butanol because
- (a) Primary carbocation is more stable than the tertiary carbocation
- (b) Tertiary carbocation is more stable than the primary carbocation
- (c) Rearrangement takes place in tertiary butanol dehydration
- (d) Rearrangement takes place in n-butanol dehydration
- Q3. What happens when phenol reacts with bromine in CS₂ at low temperatures?
- (a) ortho and para Bromo phenols are formed
- (b) para and meta Bromo phenols are formed
- (c) ortho Bromo phenol is formed
- (d) meta Bromo phenol is formed
- **Q4.** What is the IUPAC name of $CH_2 = CH-CH_2 O CH_3$?
- (a) 3- Methoxy -1- propene
- (b) 1- Methoxy -2- propene
- (c) Vinyl dimethyl ether
- (d) None of the above
- **Q5.** What happens when ethylene reacts with Baeyer's reagent?
- (a) Ethyl chloride
- (b) Ethylene glycol
- (c) Ethyl bromide
- (d) None of the above
- **Q6.** Organise the following hydrocarbons in increasing ranking of their boiling point. CH_3CH_2OH , CH_3-O-CH_3 and CH_3CHO .
- **Q7.** Organise the following hydrocarbons in increasing order of their acidic character. CH_3CH_2OH , C_6H_5OH and H_2O .



- **Q8.** Why is alkoxide a more potent base than hydroxide?
- **Q9.** Convert propene to propan-2-ol.
- **Q10.** How can you distinguish between ethanol and phenol?
- **Q11.** What is the hydroboration-oxidation reaction?
- Q12. What will happen when benzene diazonium chloride is heated with water?
- Q13. Why is the dipole moment of phenol lesser than the methanol?
- **Q14.** Why is para nitrophenol more acidic than phenol?
- Q15. Why is ortho nitrophenol more acidic than ortho methoxy phenol?
- Q16. Why is the boiling point of ether less than the corresponding isometric alcohol?
- Q17. Describe the Reimer Tiemann reaction.
- **Q18.** Give the equations of reactions for the preparation of phenol from cumene.
- **Q19.** Present two reactions that display the acidic character of phenol. Analogise the acidity of phenol with ethanol.
- **Q20.** Why does aniline not undergo Friedel- Crafts reaction?