



Class 12 Chemistry | Alcohols, Phenols And Ethers

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. Which alcohol is secondary?

- A. Propan-2-ol B. Methanol
C. Propan-1-ol D. 2-Methylpropan-2-ol

2. Controlled oxidation of ethanol with PCC gives:

- A. Ethoxyethane
B. Ethene
C. Ethanal
D. Ethanoic acid directly

3. Oxidation of propan-2-ol gives:

- A. Propanal B. Propanoic acid
C. Ethanal D. Propanone

4. Ethanol heated with conc. H_2SO_4 at 443 K gives mainly:

- A. Ethanal B. Ethoxyethane
C. Ethene D. Ethane

5. Ethanol and sodium metal liberate:

- A. Oxygen B. Hydrogen
C. Carbon dioxide D. Chlorine

6. Phenol is more acidic than ethanol because:

- A. Phenoxide has no charge
B. Ethanol is aromatic
C. Phenoxide is resonance-stabilised
D. Phenol has more hydrogen atoms

7. Which is most acidic?

- A. p-Nitrophenol B. p-Cresol
C. Ethanol D. Phenol

8. Phenol with bromine water gives:

- A. Only 3-bromophenol
B. 2,4,6-Tribromophenol
C. Bromobenzene
D. Benzoic acid

9. Phenol gives a violet colour with:

- A. Benedict reagent B. Tollens reagent
C. Neutral FeCl_3 D. NaCl solution

10. Sodium phenoxide with CO_2 under pressure, then acidification, mainly gives:

- A. Salicylic acid B. Benzoic acid
C. Benzaldehyde D. Anisole

11. Phenol with $\text{CHCl}_3/\text{NaOH}$, then acidification, mainly gives:

- A. Anisole
B. Cyclohexanol
C. Benzoic acid
D. 2-Hydroxybenzaldehyde

12. Best Williamson route to methoxyethane is:

- A. Methanol + ethane
B. Sodium methoxide + chlorobenzene
C. Sodium ethoxide + methyl iodide
D. Ethanol + methane

13. Anisole heated with excess HI yields mainly:

- A. Iodobenzene and methanol
B. Phenyl iodide and methane
C. Phenol and methyl iodide
D. Benzene and methanol

14. Which alcohol gives immediate Lucas-test turbidity at room temperature?

- A. 2-Methylpropan-2-ol B. Methanol
C. Propan-1-ol D. Ethanol

15. Phenol reacts with NaOH but not NaHCO_3 because it is:

- A. Stronger than carbonic acid
B. A strong mineral acid
C. Weaker than carbonic acid
D. A neutral hydrocarbon

ANSWER KEY — check after completing all 15 questions

1.A 2.C 3.D 4.C 5.B 6.C 7.A 8.B 9.C 10.A 11.D 12.C 13.C 14.A 15.C