



Alcohols, Phenols and Ethers

Q.No.1:

How are the following conversions carried out?

- (i) Benzyl chloride to benzyl alcohol,
- (ii) Methyl magnesium bromide to 2-methylpropan-2-ol

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Q.No.2:

Illustrate the following reactions giving a chemical equation for each:

- (i) Kolbe's reaction,
- (ii) Williamson synthesis.

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Q.No.3:

Draw the structure and name the product formed if the following alcohols are oxidized. Assume that an excess of oxidizing agent is used.

- (i) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
- (ii) 2-butenol
- (iii) 2-methyl-1-propanol

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Q.No.4:

Explain the following giving one example for each:

- (i) Reimer-Tiemann reaction.
- (ii) Friedel Craft's acetylation of anisole.

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Q.No.5:

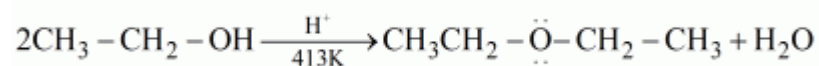
How would you obtain

- (i) Picric acid (2, 4, 6-trinitrophenol) from phenol,
- (ii) 2-Methylpropene from 2-methylpropanol?

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Q.No.6:

Explain the mechanism of the following reaction:



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Q.No.7:

How will you convert:

(i) Propene to Propan-1-ol?

(ii) Ethanal to Propan-2-ol?

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Q.No.8:

Draw the structure of hex-1-en-3-ol compound.

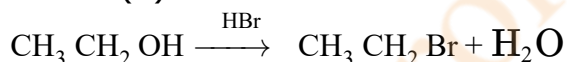
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Q.No.9: Which of the following isomers is more volatile:

o-nitrophenol or *p*-nitrophenol?

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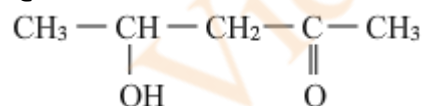
Q.No.10: (a) Write the mechanism of the following reaction :



(b) Write the equation involved in Reimer-Tiemann reaction.

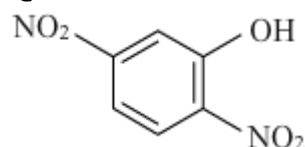
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Q.No.11: Write the IUPAC name of the compound.



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Q.No.12: Write the IUPAC name of the given compound :



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