CBSE Class 12 physics

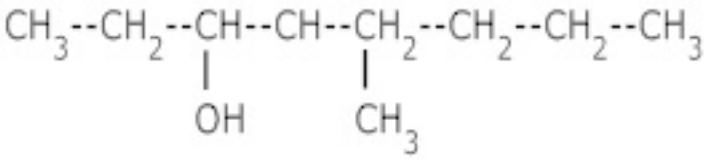
Important Questions

Chapter 11

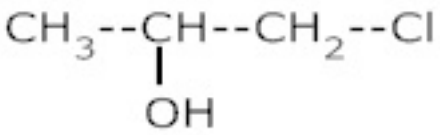
Alcohols Phenols and Ethers

1 Mark Questions

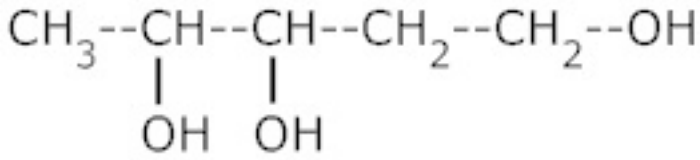
1. Write IUPAC names of :-

i. 

Ans. 5 – Methyloctan-3-ol

ii. 

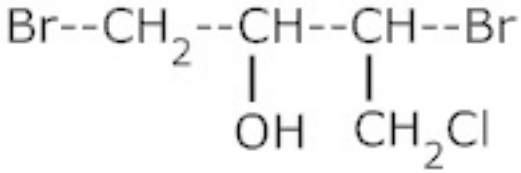
Ans. 1-Chloro propan-2-ol

iii. 

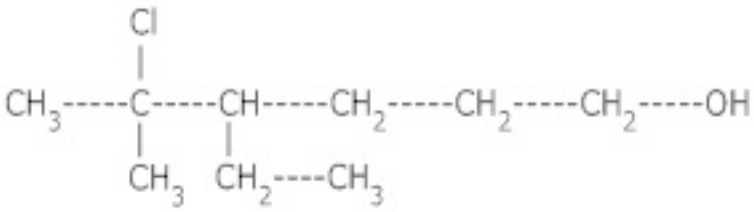
Ans. Pentan – 1,3,4 – triol

iv. $(CH_3)_3COH$

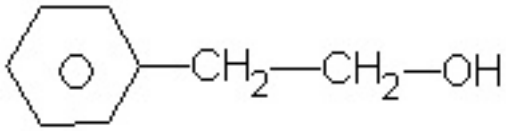
Ans. 2 – Methylpropan -2-ol

v. 

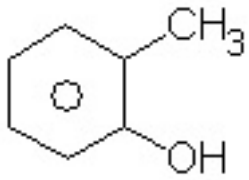
Ans. 1,3 – Dibromo – 4- chloro – 2- butanol

vi. 

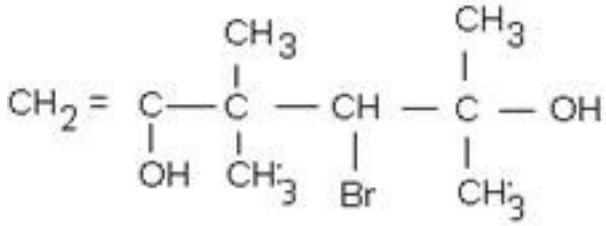
Ans. 5 – Chloro – 4 – ethyl – 5- methyl hexanol.

vii. 

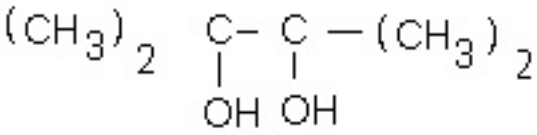
Ans. 2 – Phenyl ethanol

viii. 

Ans. 2- Methyl phenol.

ix. 

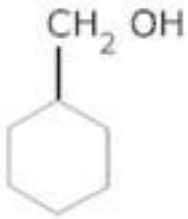
Ans. 4- Bromo -3, 3,5 – trimethyl – hex -1-ene- 2,5- diol

x. 

Ans. 2,3 – Dimethylbutan – 2,3 –diol

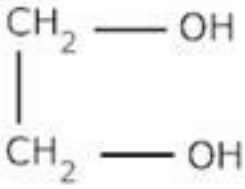
2. Write structural formula and give IUPAC names :-

i. Benzyl Alcohol

Ans. 

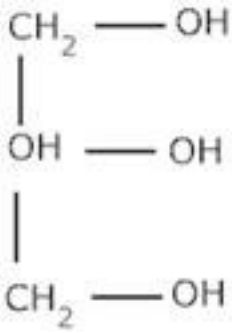
1- Phenyl methanol

ii. Ethylene Glycol

Ans. 

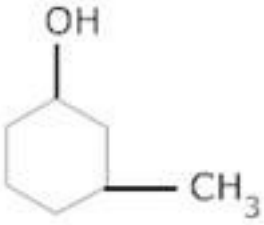
Ethane - 1,2 - diol

iii. Glycerol

Ans. 

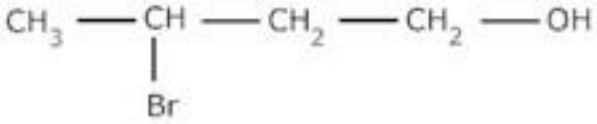
Propane - 1,2,3 - triol

iv. m- cresol

Ans. 

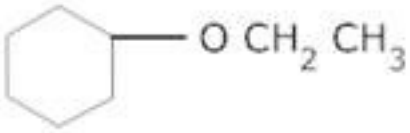
3- Methyl phenol

v. 

Ans. 

3 - Bromobutanol

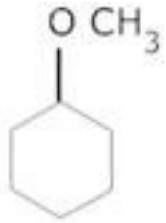
vi. Ethylphenylether

Ans.  Ethoxybenzene

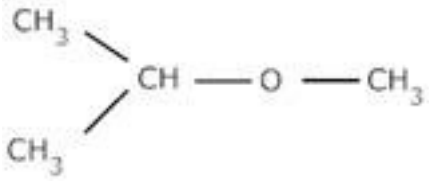
vii. Methylpropylether

Ans. $CH_3 - CH_2 - CH_2 - O - CH_3$ Methoxypropane

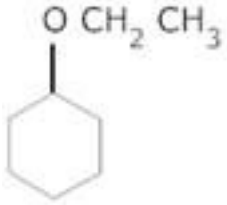
viii. Anisole

Ans.  Methoxybenzene

ix. Isopropyl methylether

Ans.  2 - Methoxy propane

x. Phenetole

Ans.  Ethoxybenzene

3. What is denatured alcohol?

Ans. Industrial alcohol (ethyl alcohol) is made unfit for drinking purpose by addition of a small quantity of poisonous substance, methanol. This is called denatured alcohol. For denaturation, copper sulphate or pyridine can also be added.

4. Mention two important uses of methanol.

Ans. Uses of methanol:-

(i) It is used for denaturing alcohol.

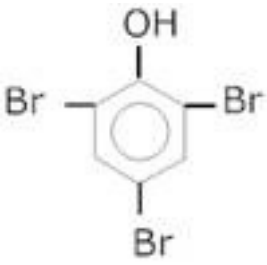
(ii) It is used as a solvent for paints & varnishes.

5. Arrange C_6H_5OH, C_2H_5OH & H_2O in the increasing order of acid strength.

Ans. The order is $C_2H_5OH < H_2O < C_6H_5OH$.

6. Give the structure of main product of action of excess of Br_2 on phenol.

Ans. The main product will be 2,4,6-tribromophenol.



7. What is wood sprit? Why is it so called?

Ans. Wood spirit is methanol. It is so called because earlier it was obtained from destructive distillation of wood only.

8. Identify allylic alcohols in the above examples.

Ans. The alcohols given in (ii) and (vi) are allylic alcohols.