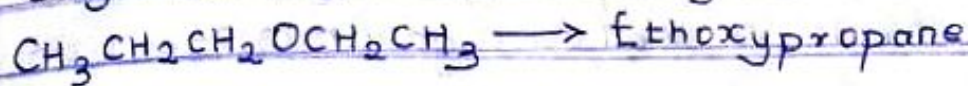
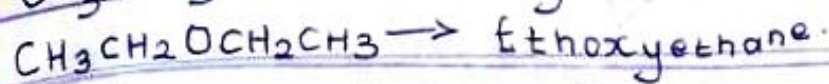
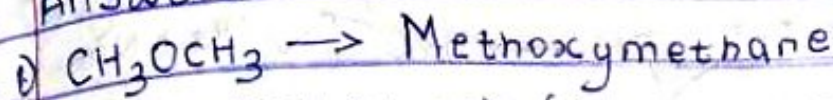


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Answers.



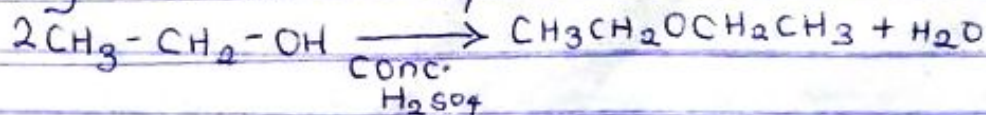
2. Properties of ethers

- Ethers are colourless, neutral liquids with pleasant odours
- Ethers are less soluble in water than are the corresponding alcohols.
- Ethers are less dense than water.
- The lower molecular mass ethers have a lower boiling point than corresponding alcohols.
- Ethers are inert in moderate temperature.

3. Ethers can be produced by;

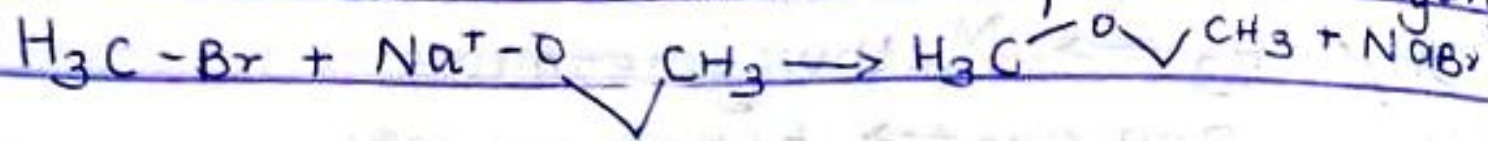
- Partial dehydration of Alcohols.

Simple ethers are manufactured from alcohols by catalytic dehydration. The alcohol in excess and concentrated H_2SO_4 is heated at a carefully maintained temperature of 140°C



b) - William Ether Synthesis

Ethers can be made by using a method discovered by Alexander Williamson which is named the William ether synthesis. It is called Substitution reaction because the alkoxide ion replaces the hydrogen



4) Ethylene oxide is used as an intermediate in the hydrolytic manufacture of ethylene glycol:

- Ethylene oxide is used as a gaseous sterilizing agent
- Ethylene oxide is used in preparation of nonionic emulsifying agents, plastics and several textiles.