

Chemistry

Ethers

Answer the following in One or Two sentences:

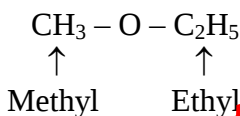
1. What are ethers?

Ethers are organic compounds with the general formula ($R - O - R'$) where R and R' are alkyl groups. The groups R and R' may be either the same or different.

2. Write a brief account of nomenclature of ethers in common system.

In the common system the ethers are named according to the alkyl group bonded to the oxygen atoms. The two – alkyl groups bonded to the functional group ($-O-$) are written alphabetically followed by the word ether.

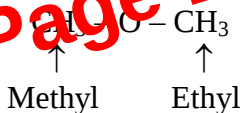
For example:



i.e., Ethyl methyl ether (arranged alphabetically)

If both the groups are similar prefix like 'di' is attached.

For example:



i.e., Dimethyl ether.

3. Write a brief account of IUPAC system of naming ethers.

In IUPAC system, the ethers are named as alkoxy alkanes. The oxygen atom is taken with the smaller alkyl group while the larger alkyl group forms the parent chain. For example,

