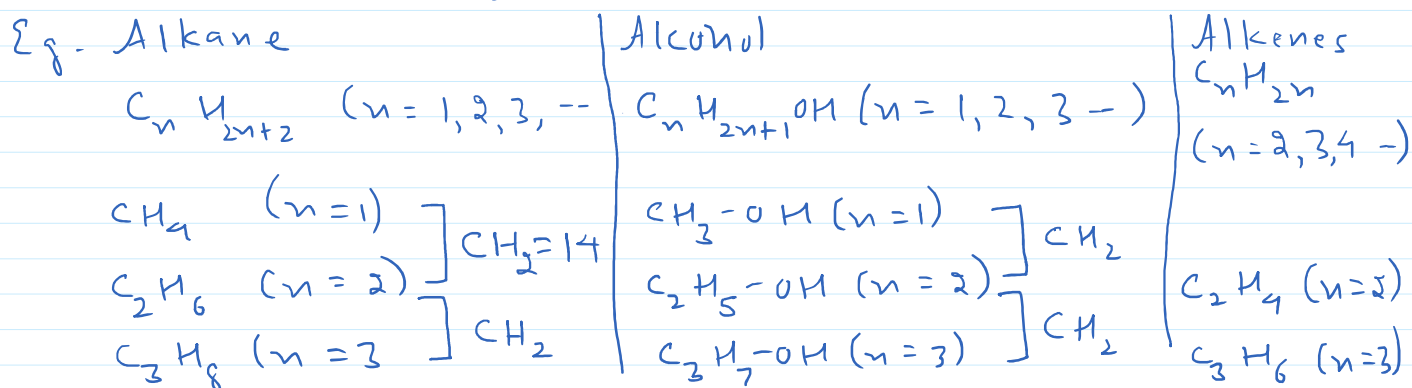
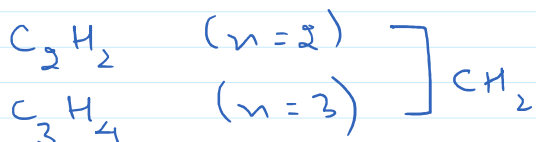
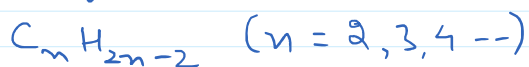


Homologous series

The series of compounds in which all the members can be represented by a general formula is known as homologous series.

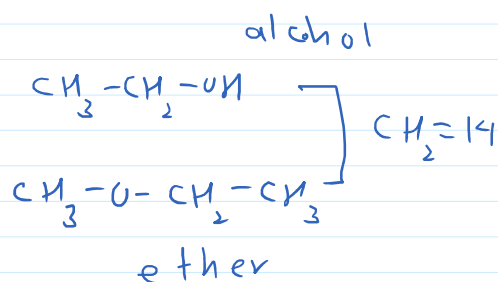
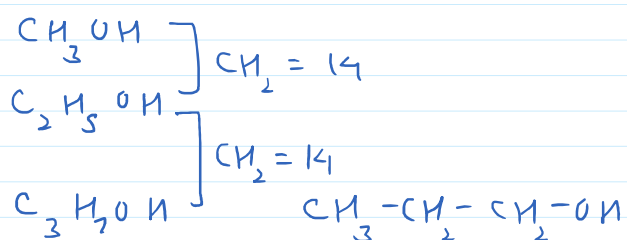
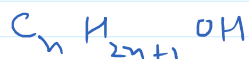


Alkynes



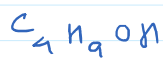
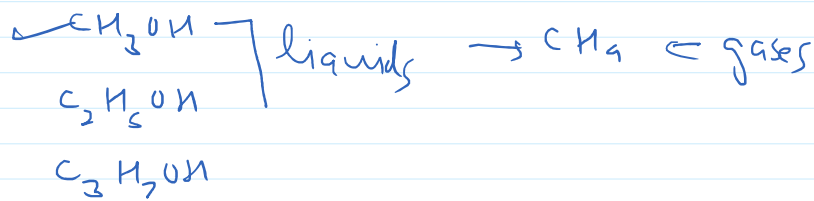
Characteristics

- i) Two consecutive members of the series differ by CH_2 and weight differ by 14 amu.
- ii) If function group is present then all members must have same functional group.



iii) All the members have similar method of preparation

iv) There is regular gradation in physical properties
eg: melting point and boiling point increases with increase in weight. Chemical properties of all members are similar.



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