

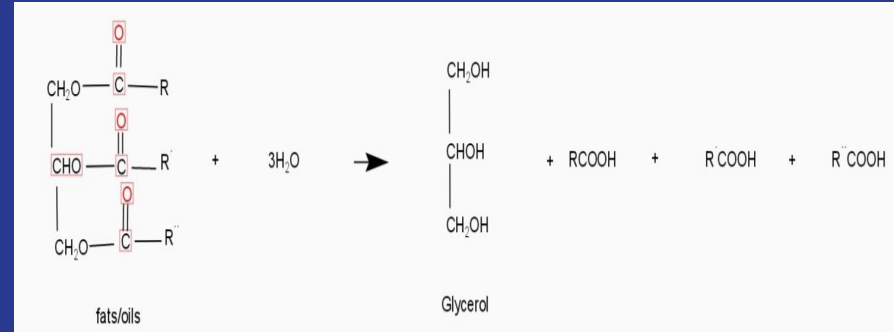
Physical Properties

- **Physical state and solubility:-**
 1. Natural fats and oils are generally colourless, odourless and tasteless solids or liquids when pure.
 2. They are largely soluble in organic solvents (benzene, chloroform and petroleum ether).
- **Melting point:-**
 - 1) Fats containing a high proportion of saturated acid groups in glycerides have relatively high m. p. but the — presence of unsaturated acid units lowers the m. p.

Chemical Properties

- Hydrolysis

a mixture of free fatty acids and glycerol.



Hydrolysis of **alkalies** gives rise to a mixture of salts of fatty acids and glycerol. Since, the salts of fatty acids thus formed are used as soap, alkaline hydrolysis is

Saponification value

The number of mg of KOH required to completely saponify 1g of fat/oil.

The saponification value gives an idea about the molecular weight of fat/oil.

Smaller the saponification value, higher the molecular weight.

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Thank you