

## The fatty acids:-

- chain of carbon atoms linked with hydrogen (C covalent bond, hydrocarbon chains)
- One end → Carboxyl group [COOH]
- length variable — 14-20 carbon atoms.
- 1/ single covalent bond between C-H  
[Saturated fatty acids]
- 2/ double covalent bond between C-H  
[monounsaturated 1 double bond]  
[polyunsaturated 2 double bond / more]

## Double C bonds:-

- cis isomer [same side H]

→ bend in molecule

→ can be packed less

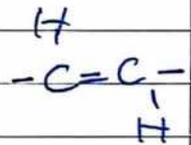
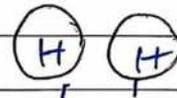
→ higher melting point (liquids)

- trans isomer

→ simpler of saturated acids

→ lower melting point - solid.

→ margarin



## Protein:- Amino acids:-

Non-polar, Polar, basic, acidic

Variable side chain (R) → gives out the function of an amino acids.

Ribosome - forms a polypeptide

## Vitamin C deficiency:-

Ascorbic acid (Vitamin C) is needed to convert proline into hydroxyproline (so ascorbic acid deficiency ↓ lead to abnormal collagen production. amino acid)

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