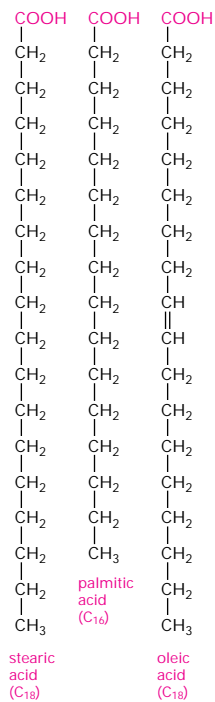


Fatty Acids and Other Lipids - Part 1

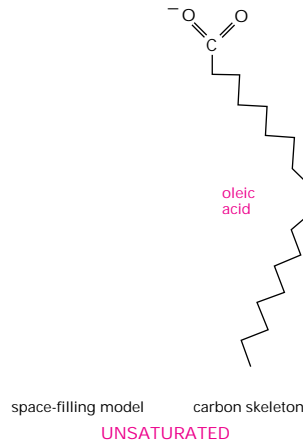
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COMMON FATTY ACIDS

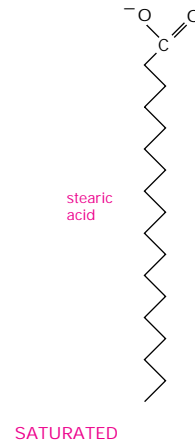
These are carboxylic acids with long hydrocarbon tails.



Hundreds of different kinds of fatty acids exist. Some have one or more double bonds in their hydrocarbon tail and are said to be **unsaturated**. Fatty acids with no double bonds are **saturated**.

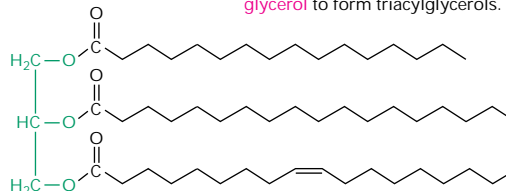


This double bond is rigid and creates a kink in the chain. The rest of the chain is free to rotate about the other C-C bonds.



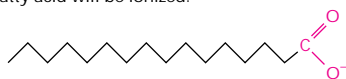
TRIACYLGLYCEROLS

Fatty acids are stored as an energy reserve (fats and oils) through an ester linkage to **glycerol** to form triacylglycerols.

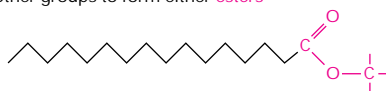


CARBOXYL GROUP

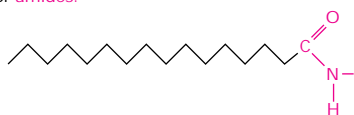
If free, the carboxyl group of a fatty acid will be ionized.



But more usually it is linked to other groups to form either **esters**



or **amides**.



PHOSPHOLIPIDS

Phospholipids are the major constituents of cell membranes.

