

Our country, our future

Chapter 1: Introduction to Organic chemistry

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What is organic Chemistry

Organic is the study of the chemistry of carbon. Carbon out of 112 elements of the Periodic Table forms a branch of chemistry called organic chemistry; it must be unique.

Uniqueness of carbon

Carbon forms very many useful compounds of different chemical and physical properties.

Uses of organic compound

Organic compounds are used for making:

- Plastic chairs,
- Plastic tables,
- drugs,
- perfumes
- pens
- paper
- Herbicides.

Terminologies

1. Hydrocarbons

These are compounds that contain carbon and hydrogen only.

2. Functional groups

Is an atom or groups of atoms that impart chemical properties to organic compounds. For instance, a double bond in alkenes (-C=C-), a triple bond in alkynes (-C=C-), hydroxyl group

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in alcohols (-OH), a halogen a tom in alkylhalides, carbonyl (-CO-) group and a carbocylic group (-COOH).

3. Homologous series

is group of organic compounds that

- (i) Can be represented by similar general formula,
- (ii) Have similar functional group and hence similar chenical properties
- (iii) Are prepared by simila chemical methods
- (iv) show varying chenical properties. For instance, members of a given homologous series may vary from gases to liquids to solids.