

Chemistry



9th Class

Sindh Board Notes

Chapter # 17

Organic Chemistry



Fill In Blanks

پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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→ ORGANIC CHEMISTRY

1. According to old concept substances produced by living organisms were called **Organic Compounds**
2. In 1828 Wohler converted an Inorganic Compound **Ammonium Cyanate** into an Organic Compound **Urea** by controlling heat up.
3. Organic Chemistry is the study of **Carbon**, containing compounds, apart from CO_2 , CO, metal carbonates, bicarbonates, and carbides.
4. Coal is mainly composed of **carbon**.
5. **Coke** is pure carbon.
6. **Coaltar** is black viscous liquid. Over 215 aromatic hydrocarbons are isolated from **coaltar**.
7. Natural gas can be bottled in tank under pressure in liquid form called **Liquefied Petroleum Gas (LPG)**
8. **Petroleum** is complex mixture of gaseous, liquid and solid hydrocarbons ranging from C_1 - C_{40} .
9. In petroleum there are **two** types of hydrocarbons, i.e. paraffins and cyclo paraffins, (Cyclohexane C_6H_{12})
10. **Petrol or gasoline** is a mixture of hydrocarbons consisting of 6 to 10 carbon atoms per molecule.
11. The quality of petrol is measured in terms of **octane** rating.
12. The **Octane** Number of gasoline is a measure of its resistance to knock.
13. Breaking of large molecules of hydrocarbons into several smaller fragments at high temperature in the absence of air is called **cracking**.
14. **Alkyl group (R)** is a group of atoms, obtained by removing one hydrogen atom from an alkane.

15. **Isomerism** is that existence of two or more compounds having same molecular formula but different structural formula.
16. The compounds having same molecular formula but different structural formula are known as **Isomers**.
17. Compounds containing only two elements C and H are known as **hydrocarbons**.
18. Aliphatic hydrocarbons are composed of **open chain** of carbon atoms.
19. Alicyclic hydrocarbons are the compounds which carbon atoms are arranged in **rings**
20. Aromatic hydrocarbons are compounds which contain **six member ring**.
21. **Saturated** hydrocarbons contain only single covalent bonds between the carbon atoms.
22. **Unsaturated** hydrocarbons contain one or more double bond or triple bonds.
23. Alkanes have general formula C_nH_{2n+2} .
24. Alkenes have general formula C_nH_{2n} .
25. Alkynes have general formula C_nH_{2n-2} .
26. C_8H_{18} is the formula for Octane, while C_8H_{16} for Octene and C_8H_{14} is for Octyne.

FOR MORE NOTES, MCQS, ONLINE QUIZZES

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9th Class

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