

Chemistry Worksheet

Grade XI Hydrocarbons

- Q1. Define hydrogenation.
- Q2. Define electrophile and nucleophile with examples.
- Q3. Draw all the possible structural isomers of C_6H_{14} . Also write their IUPAC names.
- Q4. Define decarboxylation with an example.
- Q5. Draw the structure of 2,3 -dimethyl hexane and find the number of 1° , 2° and 3° carbon atoms in it.
- Q6. What happens when isopropyl bromide undergoes Wurtz reaction? Write the reaction and name the alkane formed?
- Q7. Write the IUPAC name of $(CH_3)_3C-CH_2C(CH_3)_3$
- Q8. What do you mean by structural isomerism?
- Q9. Calculate the number of and bonds in $N \equiv C-CH_2-C \equiv N$.
- Q10. Ethane can be prepared by electrolysis of sodium salt of an acid. Name the acid and write the reaction.
- Q11. Name the type of reactions which alkanes undergo. Give one example also.
- Q12. Explain Wurtz reaction with an example.
- Q13. How will you convert ethanoic acid into methane?