

CBSE Class 12 Chemistry Chapter 10 Haloalkanes and Haloarenes Worksheet – Set 3

Q1. n-propyl bromide reacts with ethanolic KOH to form

- (a) Propane
- (b) Propene
- (c) Propyl alcohol
- (d) None of the above

Q2. The formation of alkane by the action of zinc on alkyl halide is known as

- (a) Wurtz reaction
- (b) Kolbe's reaction
- (c) Frankland's reaction
- (d) None of the above

Q3. Chloroform, when treated with benzene in the presence of anhydrous AlCl_3 , the product formed is

- (a) Chloro benzene
- (b) A mixture of ortho and para chloro toluene
- (c) Tri phenyl methane
- (d) None of the above

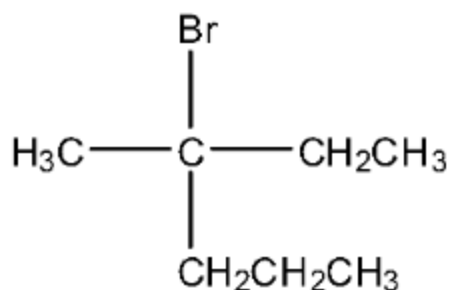
Q4. Phosgene is a common name for

- (a) Carbon dioxide and phosphane
- (b) Phosphoryl chloride
- (c) Carbonyl chloride
- (d) None of the above

Q5. The reactivity of alkyl halides depends upon

- (a) The nature of the alkyl group only
- (b) The nature of the halogen atom only
- (c) The nature of the alkyl group and halogen atoms
- (d) None of the above

Q6. Write the IUPAC names of the following compound.



- Q7.** How will you convert benzene to 3-bromo nitro benzene?
- Q8.** What will happen when bromine attacks $\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{C} \equiv \text{CH}$?
- Q9.** How will you distinguish between $\text{C}_2\text{H}_5\text{Br}$ and $\text{C}_6\text{H}_5\text{Br}$? Also, write the chemical equation involved.
- Q10.** How will you distinguish between carbon tetrachloride and chloroform? Also, write the chemical equation involved.
- Q11.** Justify the optical activity of 2-Chloro butane.
- Q12.** What is an ambident nucleophile? Explain with an example.
- Q13.** What is beta elimination?
- Q14.** What happens when chlorobenzene is treated with $\text{Cl}_2 / \text{FeCl}_3$?
- Q15.** Why is Grignard reagent prepared under anhydrous conditions?
- Q16.** What happens when n-butyl chloride is treated with alcoholic KOH?
- Q17.** What happens when methyl bromide is treated with sodium in the presence of dry ether?
- Q18.** How would you differentiate between SN_1 and SN_2 mechanisms of substitution reactions?
- Q19.** How will you convert propene to 1-iodopropane?
- Q20.** How will you differentiate between an alkyl halide and an aryl halide?