

Chemistry Worksheets Class 12 on Chapter 10 Haloalkanes and Haloarenes - Set 2

Q1. A Grignard reagent can be prepared by reacting magnesium with

- (a) Methylamine
- (b) Diethyl ether
- (c) Ethyl iodide
- (d) None of the above

Q2. The reactivity order of halide ion in alkyl halide is

- (a) $F > Cl > Br > I$
- (b) $Cl > F > Br > I$
- (c) $I > Br > Cl > F$
- (d) $Br > I > Cl > F$

Q3. Non-sticking fry pans are coated with

- (a) Tetra fluoro ethylene (Teflon)
- (b) Chloro fluoro methane
- (c) Ethylene
- (d) None of the above

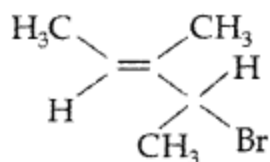
Q4. Choose the correct statement about alkyl halide

- (a) They show hydrogen bonding.
- (b) They are soluble in water.
- (c) They are soluble in organic solvents.
- (d) They do not contain any polar bonds.

Q5. 20% aqueous solution of sodium chloride containing ethyl alcohol on electrolysis gives

- (a) Ethyl chloride
- (b) Chloral
- (c) Chloroform
- (d) None of the above

Q6. Write the IUPAC name of the following compound.



- Q7.** Write any chemical test that is used to distinguish between C_2H_5Br and C_6H_5Br .
- Q8.** What happens when methyl bromide reacts with potassium cyanide?
- Q9.** Draw the structure of Bromo pentane.
- Q10.** How will you convert benzyl chloride to benzyl alcohol?
- Q11.** Why do haloalkanes undergo nucleophilic substitutions, whereas haloarenes undergo electrophilic substitutions?
- Q12.** How will you differentiate an S_N^1 reaction from an S_N^2 reaction?
- Q13.** Why is haloalkane insoluble in water?
- Q14.** Why does allyl chloride gets hydrolysed readily and n-propyl chloride doesn't?
- Q15.** What is wurtz- fittig reaction?
- Q16.** Why is benzyl chloride highly reactive toward the S_N^1 reaction?
- Q17.** What is an enantiomer?
- Q18.** What is a diastereomer?
- Q19.** Why are pentahalides more covalent than trihalides?
- Q20.** What will happen if
- (i) Ethyl bromide reacts with silver nitrate solution.
 - (ii) Methyl bromide reacts with sodium metal in the presence of dry ether.
 - (iii) Ethyl bromide reacts with sodium ethoxide.
 - (iv) Ethyl bromide reacts with magnesium metal.