Assessment 0f Haloalkanes and haloarenes

Alcohols and Phenols

Q1 which one of the following is not an allylic halide?

A 4-bromopent-2ene

B 3-bromo-2-methylbut-1-ene

C 1-bromobut-2-ene

D 4-bromobut-1-ene

Q2 Benzene reacts with iodine in presence of which of the following to give iodobenzene.

(a) HNO_3 (b) HF (c) SO_2 (d) H_2O

Q3 Out of the following ,the alkene that exhibits optical isomerism is

A 3-methyl-1-pentene

B 2-methyl-2-pentene

C 3-methyl-2-pentene

D 4-methyl-1-pentene

Q4 How many stereoisomer does this compound have

$CH_3CH=CHCH_2CHBrCH_3$

a. 8 b. 2 c. 6 d. 4

Q5 Which of the following exhibit highest boiling point

a. $CH_3CH_2OCH_2CH_3$ b. $CH_3CH_2CH_2CH_2CH_2OH$

b. $CH_3CH_2CH_2CH(CH_3)OH$ d.$CH_3CH_2C(CH_3)_2OH$

Q6 The product of acid catalysed hydration of 2-phenylpropene is

a. 3-phenyl-2-propanol b. 1-phenyl-2-propanol

Q7 Phenylmagnesium bromide reacts with methanol to give

A a mixture of anisole and MgBrOH

B a mixture of benzene and Mg(OCH3)Br

C a mixture of tolune and Mg(OH)Br

D a mixture of phenol and Mg(OH)Br

Q9 convert the following as directed

a. propene to propane

b. Ethanol to propane nitrile

Q10 Out of $C_6H_5CH_2Cl$ and $C_6H_5CHClC_6H_5$ which is more easily hydrolyzed.

Q11 Draw the structures of the following compounds:

a Hex-1-en-3-ol

b 2-methylproan-2-ol

Q12 How would you convert the following:

a propan-2-ol to propanone

b phenol to 2,4,6-tri bromo phenol

Q13 How would you obtain:

a ethanol to ethene

b picric acid from phenol

Q14 Explain the following:

a. Alcohol are more soluble in water than the hydrocarbons of comperable molecular masses.

b Ortho-nitro phenol is more acidic than ortho-methoxy phenol

c Propanol has higher boiling point than butane

d m-amino phenol is a stronger acid thanO-amino phenol