



CHEMISTRY

BOOKS - OMEGA PUBLICATION

HALOALKANES AND HALOARENES

Questions

1. Write the IUPAC names of the following compounds :



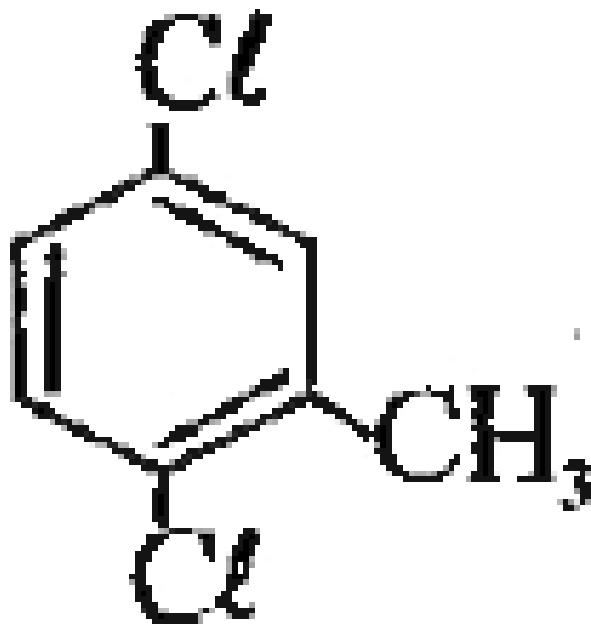
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2. Write the IUPAC names of the following compounds :



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3. Write the IUPAC names of the following compounds :



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4. Write the structural formula for 4-chloropent-2-ene.



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5. How chloroethane is prepared from ethanol ?



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6. How will you prepare haloalkanes from alkene?



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7. What happens when Br_2 reacts with $H_3C - HC = CH_2$?



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8. Show cis and trans structures of $C_6H_5-CH=CH-C_6H_5$



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9. What will happen will chloropropane is treated with alcoholic KOH?



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10. What happens when ethyl bromide is treated with alcoholic KOH?



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11. What happens when 1,2-dibromoethane is heated with zinc in the presence of ethanol?



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12. What happen when propylene dibromide is heated with zinc in presence of ethanol?



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13. What do you mean by dehydrohalogenation reaction ?



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14. Convert ethyne into ethene.



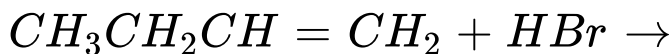
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15. convert propyne into propene.



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16. Complete the following reaction equation :



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17. What do you mean by dehalogenation reaction?



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18. Write the equations for the preparation of 1-iodobutane from
1- butanol



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19. Write the equations for the preparation of 1-iodobutane from

1 - chlorobutane



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20. Write the equations for the preparation of 2-iodobutane from

but -1- ene



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21. Draw structure of 3-bromo cyclohex-1-ene



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22. How will you convert but-2-yne into but-2-ene.



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23. How will you convert alcohols into alkene?



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24. Draw structure of 3- chloromethyl pent-2-ene



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25. What will happen when cyclo hexanol is heated with H_3PO_4 .



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26. What will happen when tert butyl alcohol is heated with H_2SO_4 .



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27. What will happen when ethanol is heated with alumina?



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28. What will happen when ethanol is heated with zinc chloride?



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29. What will happen when bromine (Br_2) is added to propene in the presence of CCl_4 ?



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30. What will happen when bromine (Br_2) is added to ethene in the presence of CCl_4 ?



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31. Write the IUPAC name of $\text{CH}_3\text{-CH}_2\text{-CH=CH}_2$



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32. Write the IUPAC name of $(\text{CH}_3)_2\text{CH}-\text{CH}_2-\text{C}=\text{CH}$



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33. Write the IUPAC name of $\text{CH}_3-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-\text{CH}_3$



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34. Write the IUPAC name of $\text{CH}_3-\text{CH}_2-\text{C}=\text{CH}$



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35. Draw structure of pent-3-en-1-yne



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36. Draw structure of 3-methyl but-1-yne



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37. Draw structure of 3-cyclopropyl prop-1-yne



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38. What will happen when HBr is treated with propene.

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39. What will happen when HBr is treated with but-2-ene.

 [Watch Video Solution](#)

40. what will happen when HBr is added to propene in presence of peroxide?



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41. What will happen when water is added to ethene in presence of acid?



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42. How oxidation of propene takes place in presence of hot KMnO_4 ?



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43. Write chain isomers of pent-1-yne



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44. What happens when ethene is oxidised with cold KMnO_4



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45. What happen when propene oxidised with cold KMnO_4



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46. Explain briefly

Plane of symmetry



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47. Explain briefly

Chiral carbon



[Watch Video Solution](#)

48. Explain briefly

Resolution



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49. Define the term chirality. Give two examples of chiral compounds.



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50. What will happen when ethene is oxidised with hot KMnO_4 ?



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52. \pm 2-butanol is optically inactive



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53. What will happen when but-2-ene is oxidised with hot KMnO_4 ?



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54. What will happen when 2-methyl but-2-ene is oxidised with hot KMnO_4 ?



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55. What is racemisation ?



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56. What will happen when 2,3-dimethyl but-2-ene is oxidised with hot KMnO_4 ?



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57. What will happen chloroethane treated with alc. KOH?



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58. Write the main product when n-butyl chloride is treated with alcoholic KOH.



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59. Give major product of 2-bromo-3-methyl butane when treated with alc KOH?



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60. What will happen bromopropane treated with alc. KOH?



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61. How do the products differ when ethyl bromide reacts separately with aqueous KOH and alcoholic KOH ? Name the products.



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62. How is ethylbromide converted into:

ethanol



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63. How is ethylbromide converted into:

ethyl acetate



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64. How can you convert 2-bromopropane into 2-iodopropane.



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65. Give one example of Finkelstein reaction.



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66. Name the reagent used to convert ethyl alcohol to ethene.



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67. Name the reagent used to convert bromoethane to butane.



[Watch Video Solution](#)

68. How will you convert chloroethane into butane ?



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69. Draw structure of 2-chloro-5-ethyl benzene.



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70. Draw structure of 2-iodotoluene.



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71. Draw structure of 1-bromo-4-methylbenzene



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72. Draw structure of 1-bromo-2-phenylethane.



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73. Draw structure of 3-chloro-3-methylcyclohex-1-ene.



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74. Draw structure of 4- bromo aniline



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75. Convert 32 celcius into fahrenheit ?



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76. How will you convert 303K into celcius?



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77. How will you convert 273K into fahrenheit ?



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78. Why Fluorination of benzene not possible directly ?



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79. Differentiate $\sin x$ with respect to x .



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80. Write the following reaction:

Wurtz Fittig Reaction



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Fitting reaction



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88. Why is chloroform stored in dark coloured bottles ?



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89. Give one important use and side effect of iodoform.



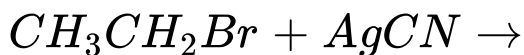
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90. Give one example of Balz-schiemann reaction.



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? Write its one use.



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95. Give two uses of freons



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96. Write two environmental effects of freons.



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97. How will you convert benzene into Benzene sulphonic acid ?



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98. Give IUPAC name of D.D.T.



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99. How is DDT prepared from chlorobenzene ?

Give the chemical equation only.



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100. Write DDT structure.



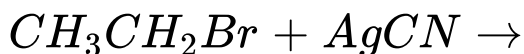
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101. Give one important use and side effect of D.D.T.



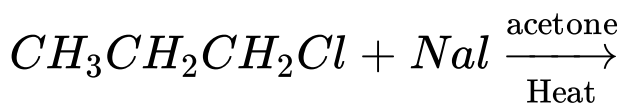
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102. Complete the following reaction :



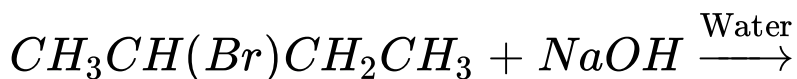
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103. Write the structure of the major organic product in each of the following reactions :



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104. Write the structure of the major organic product in each of the following reactions :



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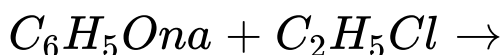
105. Write the structure of the major organic product in each of the following reactions :





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106. Write the structure of the major organic product in each of the following reactions :



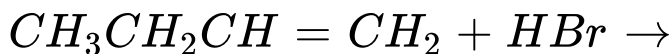
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107. Write the structure of the major organic product in each of the following reactions :



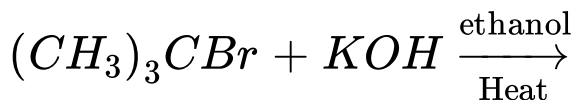
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108. Complete the following reaction equation :



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109. Write the structure of the major organic product in each of the following reactions :



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110. Write the structure of the major organic product in each of the following reactions :



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111. Explain why is thionyl chloride method preferred for preparing alkyl chlorides from alcohol ?



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112. Anti Markownikov rule or peroxide effect applies to the addition of HBr only and not to the addition of HCl or HI give reason.



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113. Write the IUPAC names of the following compounds :



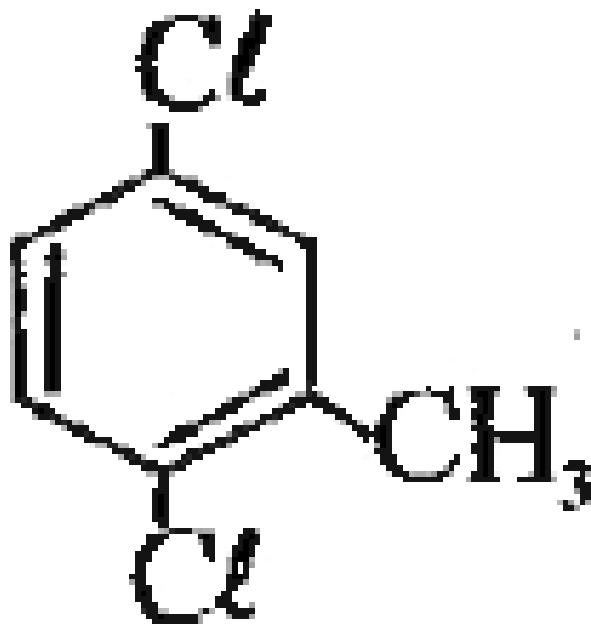
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114. Write the IUPAC names of the following compounds :



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115. Write the IUPAC names of the following compounds :



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116. Write the structural formula for 4-chloropent-2-ene.

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117. How haloalkanes are prepared from alcohols ?



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118. How will you prepare haloalkanes from alkene?



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119. What happens when Br_2 reacts with $H_3C - HC = CH_2$?



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120. Write down following name reaction :

Hunsdiecker reaction



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121. Explain the following reactions:

Diazotisation reaction.



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122. Explain the following reaction reaction :

Sandmeyer's reaction.



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123. Explain the following reaction :

Gattermann reaction.



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124. Give one example of Finkelstein reaction.



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125. Convert benzene diazonium chloride to fluorobenzene.



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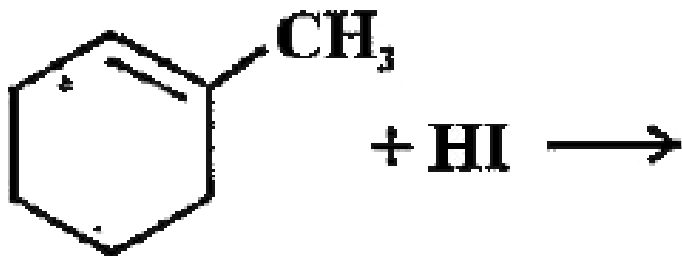
126. How are the following conversions accomplished ? Write reaction only.

Aniline into chlorobenzene



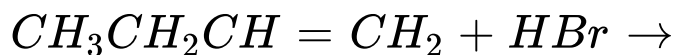
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127. Complete the following reaction equation :



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128. Complete the following reaction equation :



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129. Hydrocarbon C_5H_{10} does not react with chlorine but gives a single monochloro compound, C_5H_9Cl in bright sunlight: Identify the hydrocarbon.



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130. Write the equations for the preparation of 1-iodobutane from
1- butanol



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131. Write the equations for the preparation of 1-iodobutane from
1 - chlorobutane



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132. Write the equations for the preparation of 1-iodobutane from
but -1- ene



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133. How do you convert the following:

Prop-1-ene to 1- fluoropropane.



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134. How do you convert the following:

Chlorobenzene to 2-chlorotoluene.



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135. How boiling point of C-X for the same alkyl group vary down the group ?



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136. With the help of hybridisation show that aryl halides are lesser reactive than alkyl halides.



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137. C-X bond length in halobenzene is smaller than C-X bond length in $CH_3 - X$



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138. para - isomers have high melting point as compared to ortho and meta-isomers. Explain.



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139. Alkyl halides though polar, are immiscible with water, why ?



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140. Why does electrophilic substitution take place at ortho and para positions in haloarenes ?



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141. Haloarenes are insoluble in water but soluble in benzene. Explain.



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142. Alkyl halides though polar, are immiscible with water, why ?



[Watch Video Solution](#)

143. Explain why

Grignard reagents should be prepared under anhydrous conditions.



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144. The dipole moment of chlorobenzene is lower than that of cyclohexyl chloride. Explain.



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145. With the help of resonance show that aryl halides are lesser reactive than alkyl halides.



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146. What is optical isomerism? What is the necessary and sufficient condition for a molecule to exhibit optical isomerism ?



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147. What are ambident nucleophiles ? Explain with an example.



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148. Haloalkanes react with potassium cyanide (KCN) to give alkyl cyanide, but gives alkyl isocyanide with silver cyanide (Ag CN).



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149. Define retention.



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150. Define inversion.



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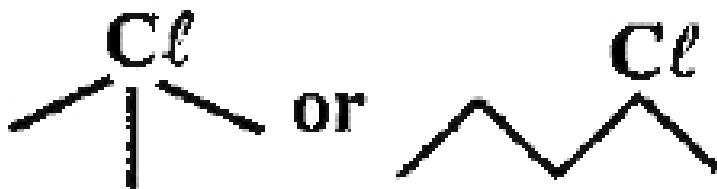
151. Which one of the following compounds is more easily hydrolyzed by KOH and why?

$CH_3CHClCH_2CH_3$ or CH_3CH_2Cl



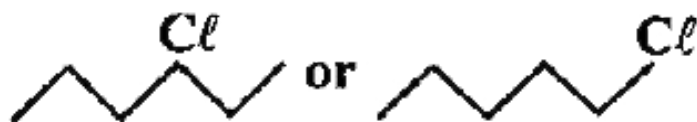
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152. Which one in the following pairs undergoes substitution reaction faster and why?



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153. Which one in the following pairs undergoes substitution reaction faster and why?



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154. Rearrange the compounds of each of the following sets in order of reactivity towards S_N^2 displacement :

2-Bromo-2-methylbutane, 1- Bromopentane, 2-Bromopentane



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155. Rearrange the compounds of each of the following sets in order of reactivity towards S_N^2 displacement :

1-Bromo-3-methylbutane,

2-Bromo-2-

methylbutane, 3-Bromo-2-methylbutane



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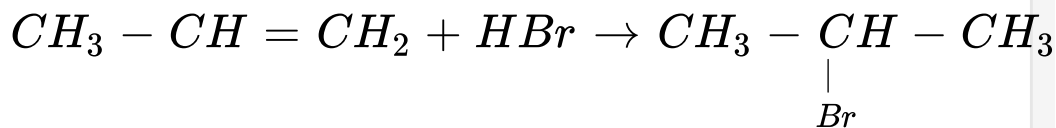
156. Rearrange the compounds of each of the following sets in order of reactivity towards S_N^2 displacement :

2-Bromo-2-methylbutane, 1- Bromopentane, 2-Bromopentane



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157. The reaction



is



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158. Explain briefly

Plane of symmetry



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159. Explain briefly

Chiral carbon



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160. Explain briefly

Resolution



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161. Define the term chirality. Give two examples of chiral compounds.



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162. Which metal is used in the preparation of Grignard's reagent from haloalkanes ?



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163. Out of 2-chloropentane and 2-chloro-2-methylpentane, which one is having chiral carbon atom ? Explain.



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164. \pm 2-butanol is optically inactive



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165. What are optically active compounds ?



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166. What are enantiomers ? Give an example.



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167. What is racemisation ?



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168. Write a chemical reaction to illustrate Saytzeff's rule.



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169. Why is dehydrohalogenation reaction in haloalkane termed as 'beta-elimination' ?



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170. Write the main product when n-butyl chloride is treated with alcoholic KOH.



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171. How do the products differ when ethyl bromide reacts separately with aqueous KOH and alcoholic KOH ? Name the products.



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172. Why is Wurtz reaction not suitable for the preparation of odd number alkanes ?



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173. How tert-butyl bromide reacts with aqueous KOH ? Give the mechanism and kinetics of reaction.



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174. How is ethylbromide converted into:

ethanol



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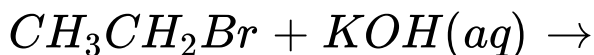
175. How is ethylbromide converted into:

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176. Complete the following reaction :





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177. Give one example of Finkelstein reaction.



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178. Name the reagent used to convert 1 chloro propane to 1 nitro propane.



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179. Name the reagent used to convert bromoethane to butane.



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180. How will you convert chloroethane into butane ?



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181. What happens when -

bromobenzene is treated with Mg in the

presence of dry ether



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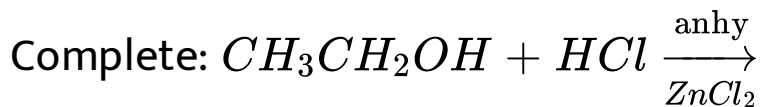
182. Write short note on the followings

Hoffmann's ammonolysis



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183. Write short note on the followings



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184. Write short notes on the followings:

Ullmann reaction



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185. Write short notes on the followings:

Haloform reaction



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186. Why haloalkanes are more reactive than

haloarenes towards nucleophilic substitution

reaction ?



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187. Why does electrophilic substitution take place at ortho and para positions in haloarenes ?



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188. The reactivity order of haloalkanes is $R - I > R - Br > R - Cl > R - F$. Explain.



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189. How chlorobenzene is prepared from benzene ?



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190. Why Fluorination of benzene not possible directly ?



Watch Video Solution

191. Discuss Friedel - Craft alkylation and acylation reaction with respect to haloarenes.



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192. Write the following reaction:

Wurtz Fittig Reaction



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193. Give the following reactions:

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198. Chloroform is a chlorine compound but it does not give white precipitate with silver nitrate

solution. Give reason.



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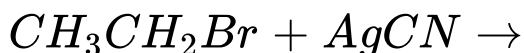
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206. What is freon ? How is it prepared from CCl_4 ? Write its one use.



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207. Give two uses of freons



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208. Write two environmental effects of freons.



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209. Convert benzene into benzene hexachloride.



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210. Give IUPAC name of D.D.T.



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211. How is DDT prepared from chlorobenzene ?

Give the chemical equation only.



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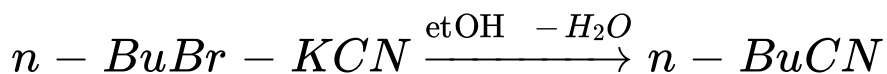
212. Write DDT structure.

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213. Give one important use and side effect of D.D.T.

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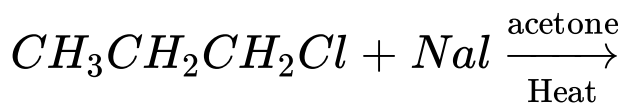
214. Explain the mechanism of the following reaction :





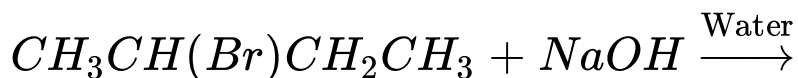
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215. Write the structure of the major organic product in each of the following reactions :



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216. Write the structure of the major organic product in each of the following reactions :



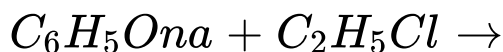
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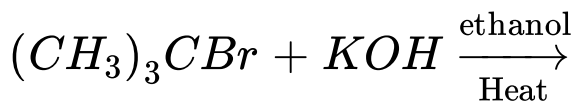
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Multiple Choice Questions Mcqs

1. Ethyl alcohol gives ethyl chloride with the help of

A. $NaCl$

B. Cl_2

C. KCl

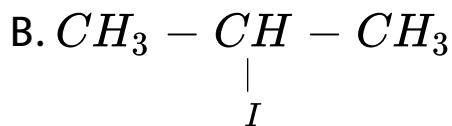
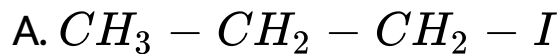
D. $SOCl_2$

Answer: D



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2. $CH_3 - CH = CH_2 + HI \rightarrow X$ where X is

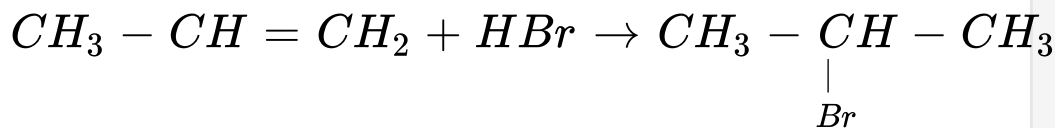


Answer: B



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3. The reaction



is

- A. nucleophilic addition reaction
- B. electrophilic addition reaction
- C. electrophilic substitution reaction
- D. free radical addition reaction

Answer: B



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4. SN^1 reaction of alkylhalides leads to

A. retention of configuration

B. racemisation

C. inversion of configuration

D. None of these.

Answer: B



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5. Most reactive metal is:

- A. n-butyl chloride
- B. sec-butyl chloride
- C. tert-butyl chloride
- D. allyl chloride.

Answer: C



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6. The reactivity order of halides for dehydrohalogenation is

- A. $R-F > RI > RBr > RCl$

B. $R-I > RBr > RCl > RF$

C. $R-I > RCl > RBr > RF$

D. $R-F > RBr > RCl > RI$

Answer: B

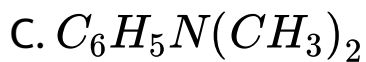


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7. Mg reacts with RBr best in

A. $C_2H_5OC_2H_5$

B. $C_6H_5OCH_3$



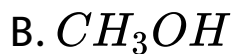
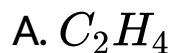
D. equally in all the three.

Answer: A



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8. Both methane and ethane can be prepared in single step by the use of



D. CH_3CHO

Answer: C



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9. Alkyl halides react with Mg in dry ether to form

A. magnesium halide

B. Grignard's reagent

C. alkene

D. alkyne

Answer: B



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10. Which of the following metal can be used for carrying out Wurtz-Fittig reaction ?

- A. Sodium
- B. Mercury
- C. Radium
- D. Any of these.

Answer: A



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11. Ethyl alcohol gives ethyl chloride with the help of

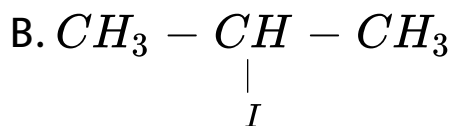
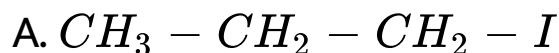


Answer: D



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12. $CH_3 - CH = CH_2 + HI \rightarrow X$ where X is

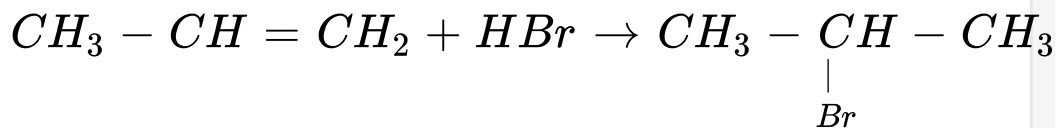


Answer: B



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13. The reaction



is

- A. nucleophilic addition reaction
- B. electrophilic addition reaction
- C. electrophilic substitution reaction
- D. free radical addition reaction

Answer: B



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14. SN^1 reaction of alkylhalides leads to

A. retention of configuration

B. racemisation

C. inversion of configuration

D. None of these.

Answer: B



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15. Most reactive halide towards SN^1 reaction is

- A. n-butyl chloride
- B. sec-butyl chloride
- C. tert-butyl chloride
- D. allyl chloride.

Answer: C



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16. The reactivity order of halides for dehydrohalogenation is

- A. $R-F > R-Cl > R-Br > R-I$.

B. R-IgtR--BrgtR-ClgtR-F

C. R-IgtR-FgtR-BrgtR-Cl

D. R-FltR-IgtR-BrgtR-Cl.

Answer: B

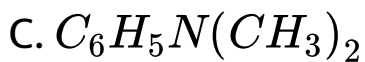


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17. Mg reacts with RBr best in

A. $C_2H_5OC_2H_5$

B. $C_6H_5OCH_3$



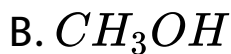
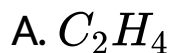
D. equally in all the three.

Answer: A



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18. Both methane and ethane can be prepared in single step by the use of



D. CH_3CHO

Answer: C



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19. Alkyl halides react with Mg in dry ether to form

A. magnesium halide

B. Grignard's reagent

C. alkene

D. alkyne

Answer: B



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20. Which of the following metal can be used for carrying out Wurtz-Fittig reaction ?

- A. Sodium
- B. Mercury
- C. Radium
- D. Any of these.

Answer: A



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