

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION WORKSHEET-22(CLASS-12)

TOPIC- ALCOHOL, PHENOL AND ETHER

SUBTOPIC-PREPARATION AND CHEMICAL PROPERTIES OF ETHER

SUBJECT – CHEMISTRY DURATION – 30 mins F.M. - 15 DATE -17.06.20

1.1 The boiling point of thioether is-

a) Higher then ether b) Lower then ether c) Equal to ether d) Nearly same

1.2 Ether on heating with acetyl chloride in presence of anhydrous ZnCl₂ gives-

(a) Ethyl alcohol (b) Ethyl chloride (c) Ethyl acetate (d) Ethyl chloride and ethyl acetate

1.3 In ether C-O-C bond angle is-

a) 110° b) 105° c) 180° d) 120°

1.4 When diethyl ether is heated with excess sulphuric acid, it forms-(a) Propionic acid (b) Acetic acid (c) Ethyl hydrogen sulphate (d) Ethyl alcohol

1.5 According to Lewis acid-base concept, ethers are-

a) Neutral b) Acidic c) Basic d) Amphoteric

1.6 The type of isomerism that do/does not exist for ether-

a) Metamerism b) Functional group isomerism c) Both and b d) Ring-chain isomerism

1.7 CH₃I on treatment with dry Ag₂O forms-

(a) Acetone (b) Di ethyl ether (c) Isopropyl alcohol (d) Di methyl ether

1.8 State the product formed during the chemical reaction between sodium phenoxide and ethyl iodide on heating-

a) Benzyl alcohol b) Phenol c) Phenitol d) none of these

1.9 Wet ether is not used as a solvent in Wurtz reaction, because the water present in it-

a) Hydrolyses RX to ROH b) Reduces RX to ROH c) Destroys the Na metal d) Reacts with R-R

1.10 The chemical reaction used for the preparation of higher ethers from halogenated ethers is-

a) Concentrated H₂SO₄ b) Sodium alkoxide b) Dry silver oxide d) Grignard reagent

1.11 XCH2CH₂OCH₃ on treatment with CH₃MgBr (in Dry ether) followed by hydrolysis formsa) CH₃OCH₃ b) PhOPh c) PhOCH₃ d) CH₃CH₂CH₂OCH₃

1.12 Diazomethane on reaction with CH₃CH₂OCH₃ forms-

a) CH₃OCH₃ b) CH₃CH₂OCH₃ c) None of these d) CH₃CH₂OCH₃

1.13 Which of the following compounds is resistant to nucleophilic attack by OH⁻ ions?
a) Methyl acetate b) Acetonitrile c) Acetamide d) Diethyl ether

1.14 Ethers are not distilled by dryness for fear of explosion. This is due to the formation of a) Oxides b) Peroxides c) Alcohols d) Ketones

1.15 Ethers are obtained by treating alkyl halides with-

a) Dry Ag₂O b) Moist Ag₂O c) Dry ZnO d) Moist ZnO

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