

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-21(CLASS-12)

SUBTOPIC-CHEMICAL REACTIONS OF ALCOHOL



TOPIC- ALCOHOL, PHENOL AND ETHER SUBJECT – CHEMISTRY **DURATION – 30 mins**

F.M. - 15 DATE -16.06.20

1.1 Which among the following is an unsymmetrical ether?a)CH₃OCH₃b) PhOPhc) PhOCH₃d) CH₃CH₂OCH₂CH₃

- 1.2 Haloform reaction does not take place with-
- (a) Acetone(b)Pentan-3-one (c) Ethanol(d) Isopropyl alcohol

1.3 Propene on oxymercuration-demercuration produces: a) CH₃CH₂CH₂OH b) CH₃CHOHCH₂OH c) CH₃CH₂CHO d) CH₃CHOHCH₃

1.4 CH₃ CH₃ OH on treatment with H₂SO₄ at 413K temperature forms-

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

1.5 The process of converting alcoholinto ether involves-

- a) Addition reaction b) Substitution reaction
- c) Dehydrohalogenation reactiond) Dehydration

1.6 The type of isomerism(s) that exist for ether-

a) Metamerismb) Functional group isomerismc) Both and b d) Ring-chain isomerism

1.7 CH₃CH₂I on treatment with Ag₂O forms-

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

1.8 Williamson synthesis of ether involves-

- a) Preparation of symmetrical ethers b) Preparation of unsymmetrical ethers
- c) Preparation of both symmetrical and unsymmetrical ethersd) none of these

1.9 Which alcohol will undergo elimination reaction to give alkene in the presence of acidic potassium dichromate?

a) Primary alcohol b) Secondary alcohol c)Allyl alcohol d)None of these

1.10The distinction test for primary secondary and tertiary alcohol required to react each of them is-

- a)Victor Meyer's test b) Conc. HCI and anhydrous SnCl₂
- b) Cone. HCI and anhydrous CaCl₂ d)Both a and b

1.11XCH₂OCH₃ on treatment with CH₃MgBr (in Dry ether) followed by hydrolysis formsa)CH₃OCH₃b) PhOPh c) PhOCH₃ d) CH₃CH₂OCH₂CH₃

1.12Diazomethane on reaction with CH₃CH₂OH forms-

a)CH₃OCH₃b) CH₃CH₂OCH₃c) PhOCH₃ d) CH₃CH₂OCH₃

1.13 Alkene on treatment with alcohol forms-

a) Etherb) Aldehydec) Both a and b d) Alkane

1.14 Ether can act as a-

a) Solvent b) Hydrating agent c) Dehydrating agentd) none of these

1.15Ethers are less soluble in water than alcohol, because-

a)Hydrogen bond formationb)Dipolar interactionc)Resonance d)Hyperconjugation

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