

ST. LAWRENCE HIGH SCHOOL A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-06(CLASS-12)

TOPIC- ALKYL AND ARYL HALIDE



SUBTOPIC-CHEMICAL EACTIONS OF ALKYL AND ARYL HALIDE

SUBJECT – CHEMISTRY DURATION – 30 mins

F.M. - 15 DATE -08.05.20

- 1.1 Ethyl iodide on treatment with metallic sodium in presence of dry ether forms-
- a) Butane b) Ethane c) Hexane d) Propane
- 1.2 Which among the following is a yellow solid?
- a) CH3Cl b) CH3I c) CH3Br d) CH3F
- 1.3 The reactivity order for $S_N 1$ mechanism follows-
- a) Benzylic> Allylic> 3°>2°>1° b) Allylic >Benzylic > 3°>2°>1° c) Benzylic> 3°>2°>1° >Allylic
- d) Benzylic< Allylic< 3°<2°<1°
- 1.4 Grignard reagent when exposed to ammonia-
- a) Gets oxidized b) gets hydrolyzed c) gets decomposed to give hydrocarbon d) forms alkane
- 1.5 Which of the following compound gives positive iodoform test-
- a) Formaldehyde b) Pentanone c) Methanol d) Chloral
- 1.6 Which of the following alkyl halides mentioned below undergoes dehydrohalogenation in the presence of a strong base to give 2-pentene as the only alkene product?
- a) 1-chloropentane b) 2-chloropentane c) 3-chloropentane d) 1-chloro-2-methylbutane
- 1.7 Which of the following chemical reaction is used to identify primary amine?
- a) Reimer Tiemann b) Wurtz c) Iodoform d) Carbyl amine
- 1.8 To prepare an unsymmetrical alkane which method is the best to operate?
- a) Decarboxylation b) Corey House c) Wurtz reaction d) Isomerisation
- 1.9 Which of the following is a nucleophile?
- a) CN^{-} b) BF_3 c) H^+ d) CCl_4
- 1.10 Magnesium reacts with alkyl halide to form-
- a) Grignard reagent b) Gilmann reagent c) Lucas reagent d) None of these
- 1.11 $^{14}\mbox{CH}_3\mbox{MgBr}$ on treatment with \mbox{CO}_2 generates-
- a) CH₃COOH b) CH₃¹⁴COOH c) ¹⁴CH₃¹⁴COOH d) ¹⁴CH₃COOH
- 1.12 CH_3CH_2CI reacts with KNO_2 in presence of alcoholic medium to form-
- a) Nitro ethane b) Ethyl nitrite c) Both a and b d) None of these
- 1.13 C_2H_5MgBr reacts with $CH_3COC_2H_5$, followed by hydrolysis to form-
- a) 1° alcohol b) 2° alcohol c) 3° alcohol d) Carboxylic acid
- 1.14 Which among the following can't be considered as an organometallic compound-
- a) CH₃Li b) CH₃MgBr c) CH₃COONa d) (CH₃)₂CuLi
- 1.15 (C_2H_5)₂CuLi on reaction with C_2H_5Br forms-
- a) $CH_3CH_2CH_3$ b) CH_3CH_3 c) $CH_3CH_2CH_2CH_3$ d) CH_4

PREPARED BY: MR. ARNAB PAUL CHOWDHURY