

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-08(CLASS-12)

TOPIC- ALKYL AND ARYL HALIDE



SUBJECT - CHEMISTRY DURATION - 30 mins

F.M. - 15 DATE -11.05.20

- 1.1 Which of the following produces 1° alcohol on reaction with CH₃MgBr?
- a) HCHO b) CH₃CHO c) CH₃COCH₃ d) CH₃CH₂COCH₃
- 1.2 Which of the following produces 2° alcohol on reaction with CH₃MgBr?
- a) HCHO b) CH₃CHO c) CH₃COOH d) CH₃CH₂COCl
- 1.3 Which of the following produces 3° alcohol on reaction with CH₃MgBr?
- a) HCHO b) CH₃CHO c) CH₃COCH₃ d) CH₃OCH₂CH₃
- 1.4 Grignard reagent when exposed to moisture-
- a) Gets oxidized b) gets hydrolyzed c) gets decomposed to give hydrocarbon d) remains unaffected
- 1.5 Grignard reagent forms alkane with which of the following compound?
- a) But-1-ene b) Carbon dioxide c) But-2-ene d) Ammonia
- 1.6 CH₃MgI reacts with CH₃OCH₃ to form-
- a) Alcohol b) No product c) Water d) Ester
- 1.7 Grignard reagent cannot act as-
- a) Reductant b) Nucleophile c) Base d) Both a and b
- 1.8 Grignard reagent doesn't react with aliphatic ether because it doesn't have-
- a) Acidic H atoms b) electrophilic center c) Nucleophilic center d) Both a and b
- 1.9 Grignard reagent (RMgX) on treatment with CH₃CH₂COOH
- a) RD b) RH c) H₂O d) Both b and c
- 1.10 CH₃CH₂COCH₂CH₂CH₃ on treatment with one equivalent of RMgX forms-
- a) RH b) NH₃ c) H₂O d) All of these
- 1.11 ¹⁴CH₃MgBr on treatment with CO₂ generates-
- a) CH₃COOH b) CH₃¹⁴COOH c) ¹⁴CH₃¹⁴COOH d) ¹⁴CH₃COOH
- 1.12 CH₃MgI reacts with CH₃CONH₂, followed by hydrolysis to form-
- a) 3° Alcohol b) 2° Alcohol c) Water d) 1° Alcohol
- 1.13 CH₃MgI reacts with CH₃CN, followed by hydrolysis to form-
- a) (CH₃)₃COH b) CH₃CHO c) CH₃CH₂OH d) (CH₃)₂CHOH
- 1.14 During the reaction Grignard reagent with any ketone the hydrolysis step is carried out by using-
- a) Aq. NH₄Cl b) HCl c) HNO₃ d) NH₄OH
- 1.15 CH₃CH₂Br on treatment with CH₃OH forms-
- a) CH₃CH₂CH₃ b) CH₃CH₃ c) CH₃CH₂CH₂CH3 d) CH₄

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