



Aldehydes, Ketones and Carboxylic Acids

Q.No.1:

Trichloroacetaldehyde was subjected to Cannizzaro's reaction by using NaOH. The mixture of the products contains sodium trichloroacetate and another compound. The other compound is:

AIEEE 2011

- A. Trichloromethanol
- B. 2, 2, 2-Trichloropropanol
- C. Chloroform
- D. 2, 2, 2-Trichloroethanol

Q.No.2:

The strongest acid amongst the following compounds is:

AIEEE 2011

- A. HCOOH
- B. $\text{CH}_3\text{CH}_2\text{CH}(\text{Cl})\text{CO}_2\text{H}$
- C. $\text{ClCH}_2\text{CH}_2\text{CH}_2\text{COOH}$
- D. CH_3COOH

Q.No.3:

Silver mirror test is given by which one of the following compounds?

AIEEE 2011

- A. Acetone
- B. Formaldehyde
- C. Benzophenone
- D. Acetaldehyde

Q.No.4:

Aspirin is known as :

- A. Acetyl salicylic acid
- B. Phenyl salicylate
- C. Acetyl salicylate
- D. Methyl salicylic acid

Q.No.5:

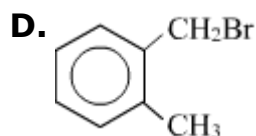
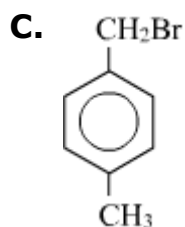
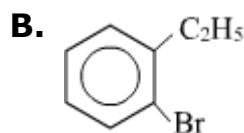
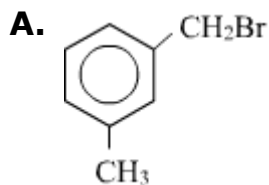
Iodoform can be prepared from all except:

- A. Ethyl methyl ketone
- B. Isopropyl alcohol
- C. 3-Methyl-2-butanone
- D. Isobutyl alcohol

Q.No.6:

Compound (A), C_8H_9Br , gives a white precipitate when warmed with alcoholic $AgNO_3$. Oxidation of (A) gives an acid (B), $C_8H_6O_4$. (B) easily forms anhydride on heating. Identify the compound (A).

JEE 2013



Q.No.7: The most suitable reagent for the conversion of $R-CH_2-OH \rightarrow R-CHO$

is

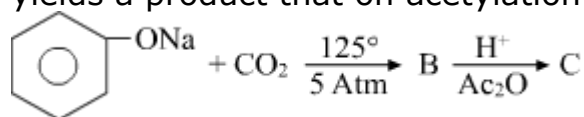
- A.** CrO_3
- B.** PCC (Pyridinium Chlorochromate)
- C.** KMnO_4
- D.** $\text{K}_2\text{Cr}_2\text{O}_7$

Q.No.8: In the reaction, $\text{CH}_3\text{COOH} \xrightarrow{\text{LiAlH}_4} \text{A} \xrightarrow{\text{PCl}_5} \text{B} \xrightarrow{\text{Alc.KOH}} \text{C}$, the product C is

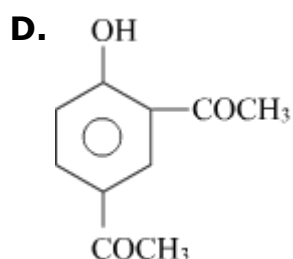
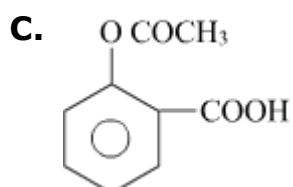
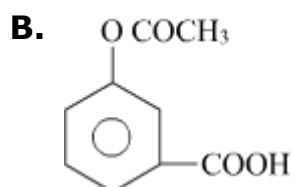
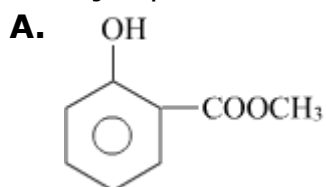
- A.** ethylene
- B.** acetyl chloride
- C.** acetaldehyde
- D.** acetylene

Vidyarohi

Q.No.9: Sodium phenoxide, when heated with CO_2 under pressure at 125°C , yields a product that on acetylation produces C.

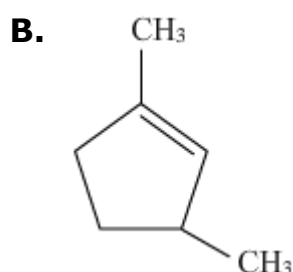
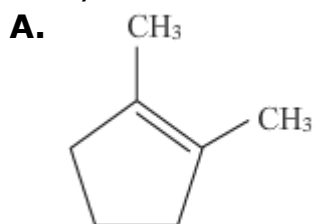


The major product C would be

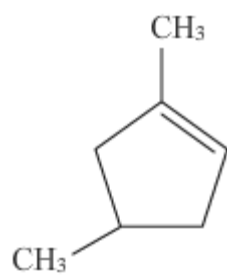


Q.No.10: Which compound would give 5-keto-2-methyl hexanal upon ozonolysis?

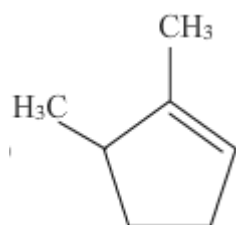
JEE 2015



C.



D.



Vidyarohi