

Uquwoke Chukwuebuka

16/EXIG/06/1065

Mechanical Engineering

1.) HCOOH - Methanoic acid

$\text{HOOCCH}_2\text{CH}_2\text{CH}_2\text{COOH}$ - propane-1,2,3, tricarboxylic

$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$ - butanoic acid

$\text{HO}_2\text{C}_2\text{H}_2$ - Ethanedioic acid

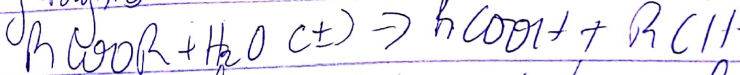
$\text{CH}_2(\text{CO}_2\text{H})_6$ - Hexane-1,6-dioic acid.

2.) Physical Appearance - They are solid with low melting point

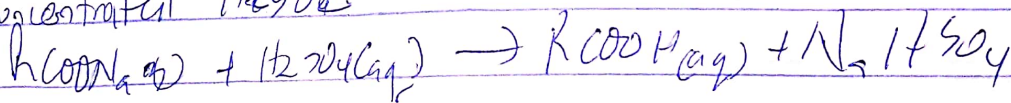
① boiling point - The simplest carboxylic acid boils at 101°C 214°F .

② Solubility - It is soluble in water.

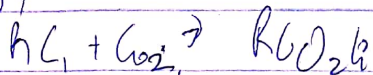
3.) Hydrolysis of alkanoates in acid media



ii) Distillation of ~~anhydrous~~ sodium acetate with concentrated H_2SO_4



4.) Carbonylation of a Grignard reagent and organolithium reagents:



Basic - Carbonyl cleavage of non-cyclic ketone especially cyclic ketones

