

CHM 114X: Organic Chemistry Laboratory Course

Experiment 4 : Hydrolysis of Methyl Salicylate

Reaction:



Chemicals Required: Methyl salicylate, sodium hydroxide and hydrochloric acid.

Glassware & Equipment required:

Conical flasks (25, 50 & 100x2 mL), measuring cylinders (25 & 10 mL), glass funnel, filter paper, cotton, water bath, ice bath, beaker (100 mL), Buchner Funnel, filtration flask, sample vial, melting point capillary and melting point apparatus.

Hazards Information: For Material Safety Data Sheet (MSDS), consult the lab-in charge.

Sodium Hydroxide is corrosive, irritant. It is very hazardous in case of skin contact, eye contact and inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.

Methyl Salicylate is very hazardous in case of ingestion. It is an irritant. Avoid skin contact, eye contact and inhalation.

Hydrochloric acid is very hazardous in case of skin contact (corrosive, irritant, and permeator).

Precautions:

Use lab coat and safety-goggles at all time in the lab. Handling of chemicals and the reaction should be carried in a fume hood. Never touch, smell, or taste the chemicals. For more details read MSDS of chemicals which you are using. Any accident should be promptly informed to your Instructor.

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Brendan G. Carr



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