Fischer Esterification Project

Introduction

Esters happens to be chemical compounds that play a very significant role in the lives of people worldwide. According to Encyclopedia.com, naturally esters of organic acids in fruits and flowers enables them to have their distinctive odors. Mostly, they are synthesized in the laboratory and used by cosmetic industries. Nontheless, certain evaporative esters are used as solvents for paints, lacquers and varnishes. Scientifically, common fats and oils are combination of various esters like stearin, palmitin, and linolein, formed from the alcohol glycerol and fatty acids. (Encyclopedia com)

On the other hand, Fischer Esterification is a method used in synthesizing esters from carboxylic acids and alcohols. As depicted in Fig 1, it occurs with the liberation of water. The reaction is acid catalyzed and an inorganic acid as sulfuric acid can be used as a catalyst. [Williamson, 2011] According to Le Chatelier's Principle, the reaction is reversible since the position of equilibrium can be shifted to the right by either the addition or removal of excess reactants.

Fig 1: General representation of Fischer Esterification [McMurry, 2016]

The mechanism as shown in (Fig 2) happens by the initial protonation of carboxyl group by the acid, followed by nucleophilic attack by the alcohol, proton rearrangement, loss of water and loss of catalyzing proton. The reversible reaction yields hydrolysis of the ester. [Williamson, 2011]



Fig 2: General Mechanism for Fischer Esterification [Williamson, 2011]

Objectives

For this experiment, unknown samples of a carboxylic acid and an alcohol were given for the Fischer ester synthesis. Prior to the experiment, the molar masses of the reactants to be used were given and their refractive indices were taken so all the substances were known.

Procedure

Esterification Experiment Report

Pennsylvania State College.
Agricultural Experiment Station

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Annual Report Argonne National Laboratory, 1959 Report of the Connecticut Agricultural Experiment Station, New Haven, Conn. for the Year ... Connecticut Agricultural Experiment Station, 1929 **Report of the Connecticut** Agricultural Experiment Station, New Haven, Conn. for the Year ... Connecticut Agricultural Experiment Station, 1930 Annual Report of the Pennsylvania Agricultural Experiment Station Pennsylvania State College. Agricultural Experiment Report of the ... and ... Meetings of the British Association for the Advancement of Science British Station, 1912 Association for the Advancement of Science. Meeting, 1903 Report of the ... Meeting of the British Association for the Advancement of Science British Association for the Advancement of Science, 1903 Report of the ... Meeting of the British Association for the Advancement of Science British Association for the Advancement of Science. Meeting, 1903 Report of the Annual Meeting British Association for the Advancement of Science, 1903 Annual Report of the Massachusetts Agricultural Experiment Station Massachusetts Agricultural Experiment Station, 1917 Annual Report of the Agricultural Experiment Station of the State Agricultural College of Michigan for the Year Ending June 30 State Agricultural College (Mich.). Agricultural Experiment Station, 1911 Report of the ... Meeting of the British Association for Annual Report of the Agricultural Experiment Station, Michigan State University the Advancement of Science ,1903 Michigan State University. Agricultural Experiment Station, 1911 Experiment Station Record United States. Office of Experiment Stations, 1911 Report of the Agricultural Experiment Station of the University of California California Agricultural Experiment Station, 1969 Report on the Experimental Work Jamaica. Sugar Experiment Station, 1906 Report of the Agricultural Experiment Station of the University of California ,1969 Special Report Great Britain. Food Investigation Board, 1931 Scientific and Technical Aerospace Reports ,1990 Iournal of the American Chemical Society American Chemical Society, 1928 Proceedings of the Society are included in v 1 59 1879 1937 Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 1998

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