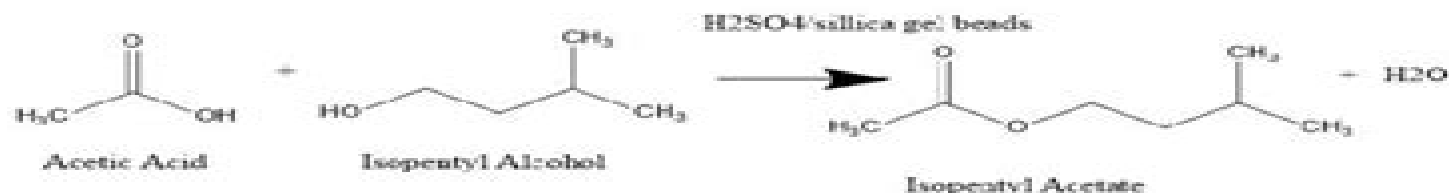


Experiment IX – Fischer Esterification – Synthesis of Isopentyl Acetate



- Abstract: [20 pts.]

The purpose of this lab was to synthesize isopentyl acetate from the reaction of isopentyl alcohol and acetic acid by performing Fischer esterification. Silica gel, acetic acid, and sulfuric acid were added to a reaction vial and then the reaction vial was attached to the water-jacketed reflux condenser. The reaction vial was boiled in a hot sand bath and allowed to reflux for 90 min. After that, the reaction mixture was transferred to a dry clean culture tube. Reaction vial and silica gel beads were washed with diethyl ether to get as much yield as possible. The reaction created 2 immiscible layers. Sodium bicarbonate was added to neutralize the aqueous layer. The top layer contains isopentyl acetate in the diethyl ether. Liquid-liquid extraction was used to isolate the aqueous layer and then the organic layer was washed with deionized water. Then transferred to a dry clean culture tube. The anhydrous sodium sulfate was used to dry the remaining and again filtered into a new tared clean dry culture tube by a Pasteur pipette column of sodium sulfate. The diethyl was evaporated using hot bath sand. The tube was weighted and used the IR spectrum to know the ester isopentyl acetate is created. Isopentyl was 12060 mg and 956 mg was recovered and the percentage yield was 5.8%.

- Procedure: [10 pts.]

"Experiment IX – Fischer Esterification of Acetic Acid with Isopentyl Alcohol". Poulos, Z. J. Organic Chemistry I – A Laboratory Manual for the Health Sciences Major, Fall 2021.

Isopentyl Acetate Lab Report

Michael Hoelscher



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