

Adipic Acid From Cyclohexanone Lab Report

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Adipic Acid From Cyclohexanone Lab quantitative reaction that converts a liquid (cyclohexanone) into a solid (adipic acid). Procedure 1. On a balance, tare a small test tube that has been placed in an empty 50 to 100-mL beaker for stabilization. 2. Carefully add cyclohexanone, drop wise, to the small test tube until the balance shows a mass of 0.15 g. 3. An Oxidation Reaction: Adipic Acid from Cyclohexanone Preparation of adipic acid from cyclohexene. In this laboratory period the cyclohexene (supposedly) prepared in the previous experiment is oxidized to adipic acid. You will be provided with cyclohexene. As shown in the

Procedure, we will use 2 mL. Read this document completely, and then answer the prelab questions below. Preparation of adipic acid from cyclohexene Chemistry Chemistry. Preview text.

EXPERIMENT 4 PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE NAME: KAGISO BSURNAME:

MFANYANA ID NUMBER: 201301326 LAB DAY:

MONDAY COURSE CODE: CHE334 TITLE: PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE AIM: To synthesize Adipic acid through oxidation of

Cyclohexene with

Potassium permanganate INTRODUCTION Alkenes can easily be oxidized by potassium permanganate and other oxidizing agents. Preparation OF Adipic ACID

FROM Cyclohexene - CHE334 - UB ... Enjoy the videos and music you love, upload original content, and share it all with friends, family, and the world on YouTube. Adipic acid via oxidation of cyclohexanone - YouTube Under the influence of the vanadate the hemihydrate of cyclohexanedione is rapidly converted to adipic acid, whereas in the absence of vanadate this substance is slowly broken down to glutaric acid, succinic acid and oxalic acid. Copper is effective only at higher temperatures where it prevents the further break-down of unstable intermediates. Preparation of adipic acid by oxidation of cyclohexanol ... Abstract: • In this experiment, adipic acid was synthesized from cyclohexanone and concentrated nitric acid. The HNO_3

and cyclohexanone were combined very slowly, since the reaction is very exothermic. Once the reaction was complete, the product was allowed to crystallize and the solvent was removed. 6. Abstract • The adipic acid crystals were then washed with a small amount of water, dried for a couple days and weighed. 7. THIS IS EXPLOSIVE!!!! 8. Synthesis of adipic acid organic lab - LinkedIn SlideShare PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE Chem 126 4.doc (DOC) PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE Chem 126 ... 1. In a 50 mL Erlenmeyer flask place 0.0025 moles of cyclohexanone and a solution of 0.0050 moles of potassium permanganate in 15 mL of water. 2. Make the solution slightly basic by adding 3

drops of 10% NaOH(aq). 3. Gently stir the solution for 10 minutes at room temperature, and then place it in a boiling water bath for 20 minutes. Oxidation:

Preparation of Adipic Acid Chemicals can be dangerous and the right precautions should be taken to avoid harm. Lab coat, goggles, and gloves should be worn at ALL TIMES [1]. One chemical hazard to be aware of is that acetic acid is extremely irritating and skin contact and inhalation should be avoided. Also, cyclohexanol and cyclohexanone are toxic and irritating. Organic Chemistry Lab Report—Synthesis of Cyclohexanone ... In this experiment, the oxidative cleavage of cyclohexene will be performed to produce as the only product 1,6-hexanedioic acid (adipic acid), shown in

Equation 1 below. Adipic acid is used in the production of the polymer “Nylon 6,6” and is comprised of alternating units of adipic acid and 1,6-diaminohexane. Experiment 2: Preparation of Adipic Acid Nitric acid is a powerful oxidizing agent that can oxidize cyclohexane, cyclohexene, cyclohexanol or cyclohexanone to adipic acid.

PROCEDURE/OBSERVATION We had placed 1.0 mL of concentrated nitric acid in a 10 x 100 mm reaction tube, but we did not add a boiling chip. Then we added one small drop of cyclohexanone from a vial containing 150 mg of ketone. In the sand bath, we had to warm the tube until brown vapors of nitrogen oxide was Organic 2 lab report 4 Oxidation Cyclohexanone to

Adipic ... Adipic acid, also known as adipate or hexanedioate, belongs to the class of organic compounds known as medium-chain fatty acids. These are fatty acids with an aliphatic tail that contains between 4 and 12 carbon atoms. Adipic acid exists as a solid, soluble (in water), and a weakly acidic compound (based on its pKa). Adipic acid has been found in human liver and kidney tissues, and has also been ... Adipic acid | C₆H₁₀O₄ - PubChem Molecular weight calculation for Adipic Acid: Melting Range for your product: to °C Theory behind the Experiment. A. Equations: The net equation is the sum of two equations. The first one is a redox equation. The cyclohexanone is oxidized to 1,6-hexanedioic acid

(adipic acid) while the permanganate ion is reduced to MnO_2 . OXIDATION OF CYCLOHEXANONE TO ADIPIC ACID The cyclic ketone cyclohexanone was oxidized to adipic acid using the oxidizing agent nitric acid. The experiment yielded 0.2667 grams of adipic acid, giving a percent yield of 113.97%. Although the product was allowed to dry for one week, residual moisture was still present in the sample and a melting point could not be obtained. Oxidation of Cyclohexanone to Adipic Acid Free Essay Example The Preparation of Adipic Acid by the Oxidation of Cyclohexanone We usually think of ketones as being rather stable towards oxidation. For example secondary alcohols can be oxidized to ketones without much concern about the ketones being further

oxidized. This is certainly the case under mildly acidic conditions. Solved: The Preparation Of Adipic Acid By The Oxidation Of ... The synthesis is similar to the industrial production of adipic acid wherein a mixture of cyclohexanol and cyclohexanone (called "KA oil) is oxidized with nitric acid to give adipic acid, via a multistep pathway. 11/25/12 Disadvantage of the synthesis. This industrial synthesis of adipic acid is detrimental to the environment. Oxidation of Cyclohexanol to Adipic Acid | Chemical ... Adipic Acid, Cyclohexanone, Nitric Acid, Synthesis Ammonia, PU, Polyester Polyol, PU Pulp, Shoe-Sole Resin Company Introduction With total asset of 8billion RMB, staff more than 3, 000, bank credit grade AAA and 7 subsidiaries,

Hongye Group is a large-scale chemical enterprise that has a complete industrial chain. China Adipic Acid manufacturer, Cyclohexanone, Nitric Acid ... April Goodson CHEM 242L-002 February 20, 2013 Oxidation of Cyclohexanone to Adipic Acid Abstract The cyclic ketone cyclohexanone was oxidized to adipic acid using the oxidizing agent nitric acid. The experiment yielded 0.2667 grams of adipic acid, giving a percent yield of 113.97%. Oxidation of Cyclohexanone to Adipic Acid Essay - 986 ... Lab Usage 108-94-1 Cyclohexanone Contact now Adipic Acid 99.7%Min CAS No.: 124-04-9 China Cyclohexanone manufacturer, Dimethyl Formamide ... April Goodson CHEM 242L-002 February 20, 2013 Oxidation of Cyclohexanone to Adipic Acid

Abstract The cyclic ketone cyclohexanone was oxidized to adipic acid using the oxidizing agent nitric acid. The experiment yielded 0.2667 grams of adipic acid, giving a percent yield of 113.97%.

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