

DEPARTMENT OF PURE AND APPLIED CHEMISTRY
Visayas State University, Baybay, Leyte
CHEM 126 Organic Chemistry II
Laboratory Report

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Group No.: 3

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PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE

I. Introduction

Dicarboxylic acids are organic compounds that contain two carboxyl functional groups. These compounds are sometimes written as $\text{HO}_2\text{C-R-CO}_2\text{H}$. Adipic acid, a dicarboxylic acid with IUPAC name Hexanedioic acid is an organic compound with the formula $(\text{CH}_2)_4(\text{COOH})_2$. From an industrial perspective, it is the most important dicarboxylic acid. About 2.5 billion kilograms of this white crystalline powder are produced annually, mainly as a precursor for the production of nylon. The great majority of the 2.5 billion kg of adipic acid produced annually is used as monomer for the production of nylon by a polycondensation reaction with hexamethylene diamine forming 6,6-nylon. Other industrial uses of adipic acid are the production of adhesives, plasticizers, gelatinizing agents, hydraulic fluids, lubricants, emollients, polyurethane foams, leather tanning, urethane and also as an acidulant in foods. Adipic acid is used after esterification with various groups such as dicapryl, di(ethylhexyl), diisobutyl, and diisodecyl. Adipic acid otherwise rarely occurs in nature.



Nylon 6,6- a polymer of adipic acid and 1,6-diaminohexane

Adipic acid was commonly obtained by oxidation of castor oil with nitric acid (splitting of the carbon chain close to the OH group), but it is also obtained by oxidation of cyclohexanone or cyclohexene.



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Intratec



Adipic Acid From Cyclohexanone Lab Report Pdf:

Method of Preparation of Cyclohexanone, Cyclohexanol and Adipic Acid B. S. Kleiman, A. M. Komyakov, P. A. Lupanov, B. I. Lure, V. N. Nikiforova, V. L. Solomein, V. P. Chadaev, 1972 *Adipic Acid Production from Cyclohexane - Cost Analysis -*

Adipic Acid E11A Intratec, 2017-06-01 This report presents a cost analysis of Adipic Acid production from cyclohexane The process examined is a two stage oxidation process similar to the Invista technology In this process cyclohexane is initially oxidized with air to produce KA oil mixture of cyclohexanone and cyclohexanol Subsequently the KA oil is oxidized with nitric acid to produce Adipic Acid A mixture of adipic glutaric and succinic acids is generated as by product This report was developed based essentially on the following reference s 1 US Patent 20040054235 issued to DuPont in 2004 assigned to Invista in 2004 2 Adipic Acid Kirk Othmer Encyclopedia of Chemical Technology 5th edition Keywords Hexanedioic Acid DuPont Ketone Alcohol Oil Air Oxidation Nitric Acid Oxidation Boric Acid **Adipic Acid Production from Phenol - Cost**

Analysis - Adipic Acid E51A Intratec, 2019-09-17 This report presents a cost analysis of Adipic Acid production from phenol The process examined is a typical hydrogenation process In this process phenol is hydrogenated to produce KA oil mixture of cyclohexanone and cyclohexanol The KA oil is then oxidized with nitric acid to produce Adipic Acid This report was developed based essentially on the following reference s Cyclohexanol and Cyclohexanone Ullmann s Encyclopedia of Industrial Chemistry 7th edition Keywords Hexanedioic Acid Ketone Alcohol Oil **Adipic Acid from Benzene and Propylene - Cost**

Analysis - Adipic Acid E61A Intratec, 2019-09-17 This report presents a cost analysis of Adipic Acid production from benzene and propylene The process examined is a typical hydrogenation process In this process the Adipic Acid plant is integrated upstream with a plant for phenol production from benzene and propylene and a plant for nitric acid production Acetone is generated as by product This report was developed based essentially on the following reference s 1 Phenol Ullmann s Encyclopedia of Industrial Chemistry 7th edition 2 Cyclohexanol and Cyclohexanone Ullmann s Encyclopedia of Industrial Chemistry 7th edition Keywords Hexanedioic Acid Ketone Alcohol Oil Alkylation Oxidation Cumene Cumene Hydroperoxide CHP KA Oil Cyclohexanone Cyclohexanol

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