

Lab Report 1: Cyclohexanol To Cyclohexanone To Adipic Acid

Part 1: Cyclohexanol \rightarrow Cyclohexanone

Purpose: The objective of the experiment is the oxidation of cyclohexanol to cyclohexanone using sodium dichromate; characterization of the product via FTIR.

Reactions:

Observations:

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Raffaella Di Napoli



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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 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 references Cyclohexanol and Cyclohexanone Ullmann's Encyclopedia of Industrial Chemistry 7th edition Keywords Hexanedioic Acid Ketone Alcohol Oil *Adipic Acid Production from Cyclohexane - Cost Analysis - Adipic Acid E11A* Intratec, 2019-09-17 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 GGKEY YEUZ5NEBS2C This report was developed based essentially on the following references 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 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 references 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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