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Lab Report

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*Adipic acid via
oxidation of
cyclohexanone*

Preparation of Adipic
acid or Oxidation of
Cyclohexanol *Green*

*Synthesis of Adipic
Acid from*

*Cyclohexanol Make
Cyclopentanone from*

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Adipic Acid

Cyclohexanone via
Jones reagent

oxidation *Making*

nylon ~~Synthesis of~~

~~Adipic Acid Synthesis~~

~~of Cyclohexanol~~

~~Making Hexanoic Acid~~

Making Cinnamic Acid

Adipic Acid Slide

(Group 10) ~~What does~~

~~cyclohexanone~~

~~mean?~~ *Extracting*

~~DNA from~~

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~~strawberries and
eating it~~

Making bakelite
plastic (Part 1)

Crazy Speedcore

Layout Collab:

CYCLOHEXANONE

(Team LM Collab)

[Geometry Dash 2.11]

The Cannizzaro

reaction **Making**

Hydrazine Sulfate

from Urea and

Bleach Extracting

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~~mercury from~~

~~contaminated water~~

~~Making Nylon Making~~

~~raspberry perfume~~

~~Making Acrolein~~

~~Purifying Sulfuric Acid~~

~~Drain Cleaner~~

~~Stereoselective~~

~~Reduction of 4-tert-~~

~~butylcyclohexanone~~

~~Adipic acidic~~

~~synthesis by~~

~~traditional and green~~

~~method CHEM 2211L~~

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~~Experiment 8—~~

~~Preparation of
Diphenylacetylene~~

~~Experiment Synthesis
of Adipic Acid - ||~~

~~2018 || #August || -
#ReignEdu~~

~~#NCERTSeries~~

~~#10Class #18 Making
a Nylon Precursor~~

~~using Green~~

~~Chemistry Green
Chemistry, Clean~~

~~Technology,~~

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Sustainability - and
Catalysis.... What
does cyclohexanol

mean? What does
adipic acid mean?

Adipic Acid From Cyclohexanone Lab

Adipic acid otherwise
rarely occurs in
nature. Adipic acid
was commonly
obtained by oxidation
of castor oil with nitric
acid (splitting of the

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carbon chain close to the OH group), but it is also obtained by oxidation

Preparation OF Adipic ACID FROM Cyclohexene - CHE334 - UB ...

quantitative reaction that converts a liquid (cyclohexanone) into a solid (adipic acid).

Procedure 1. On a

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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

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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

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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

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Organic Chemistry Adipic Acid from Cyclohexanone Lab

...

PREPARATION OF
ADIPIC ACID FROM
CYCLOHEXENE
Chem 126 4.doc

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(DOC)

PREPARATION OF ADIPIC ACID FROM CYCLOHEXENE

Chem 126 ...

1. Add concentrated hydrochloric acid to the strongly basic solution very cautiously (or erupting may occur). Wash the affected area thoroughly with cold water if acid is spilled

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on the skin. 2. Handle potassium permanganate carefully. It is a strong oxidising agent. Avoid contact with skin and eyes. 3.

Preparation of adipic acid from cyclohexene

April Goodson CHEM
242L-002 February
20, 2013 Oxidation of

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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

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Cyclohexanone to Adipic Acid Essay - 986 ...

The synthesis is done by simply adding the acetic acid and sodium hypochlorite, which is also known as hypochlorous acid to cyclohexanol and then separating the final product from the by-products. The final results of the

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Synthesis of
cyclohexanone are
that we had a 51%
yield and that it was
not 100% pure.

Organic Chemistry Lab

Report—Synthesis of Cyclohexanone ...

In this experiment, the
oxidative cleavage of
cyclohexene will be
performed to produce

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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

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Adipic Acid

Cyclohexanol from
Cyclohexanone Lab
Report. Organic
chemistry I lab report.
University. University
of North Texas.

Course Organic
Chemistry (CHEM
2370) Academic
year. 2012/2013.

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Aromatic Substitution

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Acylation of
Ferrocene LAB

Grignard Synthesis of
Benzoic Acid LAB

Dyes and Dyeing ...

Cyclohexanol from Cyclohexanone Lab Report - CHEM 2370

...

Under the influence of
the vanadate the
hemihydrate of

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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

Get Free Adipic Acid From Cyclohexanone unstable intermediates.

Lab Report

Preparation of adipic acid by oxidation of cyclohexanol ...

The synthesis is similar to the industrial production of adipic acid wherein a mixture of cyclohexanol and cyclohexanone (called

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"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

Page 27/35

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Adipic Acid | Chemical ...

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

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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

1. In a 50 mL
Erlenmeyer flask
place 0.0025 moles of
cyclohexanone and a

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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.

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Oxidation: Preparation of Adipic Acid

The reaction velocity of the oxidation of cyclohexanol and cyclohexanone with nitric acid (without a catalyst) can be calculated from the chromatographically measured change in the concentration of

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Some of the reaction
products: nitrolic acid
and adipic acid.

Preparation of adipic acid by oxidation of cyclohexanol ...

Oxidation Of
Cyclohexanol To
Cyclohexanone.

Amber Lamb and

Stephonya Williams

EXPERIMENT TITLE:

Get Free Adipic Acid From

Oxidation:

Cyclohexanone from
Cyclohexanol by

Hypochlorite

Oxidation and Adipic
Acid from

Cyclohexanone

DATE: 4/18/2014

INTRODUCTION: In
experiment 4, alcohol
is oxidized to a ketone
with household
bleach. The product is
then isolated by

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steam distillation and
is extracted into the
distillate with ether.

Oxidation Of Cyclohexanol To Cyclohexanone Free Essays

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