

# Synthesis Of Aspirin Pre Lab Answers

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### **Synthesis Of Aspirin Pre Lab**

The synthesis reaction of aspirin is shown below: Since acetic acid is very soluble in water, it is easily separated from the aspirin product. The aspirin isolated in this step is the "crude product". A "purified product" can be obtained through recrystallization of the crude product in hot ethanol.

### **Experiment 5 - Synthesis of Aspirin**

The pre-lab is completed before performing the experiment and will be turned in at the beginning of lab. It uses the same template for every experiment and can be found on BB. For more information, see Pre-Lab Report Template page. Below you will find the the pre-lab broken down into sections for Experiment 21 - Synthesis of Aspirin.

### **Chem 1111 Experiment 21 -Synthesis of Aspirin Prelab ...**

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SYNTHESIS OF ASPIRIN (acetylsalicylic acid) Place 2.0 g (0.015 mole) of salicylic acid in a 125-mL Erlenmeyer flask. Add 5 mL (0.05 mole) of acetic anhydride, followed by 5 drops of conc. H<sub>2</sub>SO<sub>4</sub> (use a dropper, H<sub>2</sub>SO<sub>4</sub> is highly corrosive) and swirl the flask gently until the salicylic acid dissolves.

## **1: Synthesis of Aspirin (Experiment) - Chemistry LibreTexts**

Pour some distilled water onto the filter paper to make the filter paper lay flat on the bottom of the Büchner funnel. Sketch the setup with labels in your notebook. Open the vacuum valve and adjust to obtain light suction. Pour all of the aspirin mixture into the center of the funnel.

## **Experiment: Synthesis of Aspirin**

Purpose: To synthesize and purify aspirin from salicylic acid and acetic anhydride. Procedure: Day 1: 1. Weigh and put 1.0g salicylic acid into 50mL Erlenmeyer flask 2. Add 2.0 mL of acetic anhydride under fume hood and mix by rotating flask 3. Add 5 drops 85% phosphoric acid and mix by rotating flask 4.

## **Title: Experiment 2: Synthesis of Aspirin**

The reaction to produce aspirin occurs in a one to one ratio between salicylic acid and acetic anhydride according to the following reaction: 2Figure 2 - Synthesis of aspirin. In this experiment you will measure the amount of aspirin produced and calculate the percent yield.

## **Limiting Reagent - Synthesis of Aspirin**

This lab will require you to calculate the percent yield of the aspirin synthesis. Percent yield is calculated by dividing your actual yield (mass of aspirin you made) with the expected or theoretical yield (mass you calculated) multiplied by 100.

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## **Chem 1111 Experiment 21 - Synthesis of Aspirin Overview ...**

Synthesis of Aspirin By: Jon Torre. Purpose: To determine which of four catalysts yields the fastest reaction rate in the acetylation of salicylic acid (1) to form acetylsalicylic acid (2). Reactions: Procedure and Results: Aspirin Synthesis Tap water was heated on a steam bath in a 250 mL beaker. The temperature of an alcohol thermometer was equilibrated in a beaker of room temperature tap water.

## **Synthesis of Aspirin - Lab Report and Analysis - Odinity**

Many different laboratory techniques are used in the synthesis of Aspirin. The first of these that is used is the procedure of weighing by difference. To do this, place an arbitrary amount of the substance to be weighed greater than the desired amount on the Fischer balance and press the tare bar to reset the balance to zero.

## **Synthesis and Characterization of Aspirin**

Procedure - Synthesis of Aspirin. \*Review calculations on pages 9 and 10 of lab notebook. 1. Obtain mass of dry salicylic acid. Do reaction using 90% of that salicylic acid. Calculate amount of acetic anhydride needed (amount of salicylic acid times 3) 2. Transfer 90% of salicylic acid into a 50 mL Erlenmeyer flask. 3.

## **Lab B - Synthesis of Aspirin Flashcards | Quizlet**

$1 \text{ mol} \times 4.02 \text{ g} = 0.0291 \text{ mols}$  138.12g. d) The limiting reactant in this reaction is salicylic acid. The stoichiometry between salicylic acid and aspirin in the balanced chemical equation is 1:1. So, how many mols of aspirin are theoretically generated from the mols of salicylic acid used? Since it is a 1:1 stoichiometry, the number of mols of aspirin theoretically produced will be same as number of mols of salicylic acid = 0.0291 mols.

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## **Pre-lab exercise Preparation of Aspirin (Complete and ...**

The purpose of this experiment was to make aspirin via esterification, and to determine the percent yield we as a lab group made. Aspirin is an organic ester. An ester is a compound that is formed when an acid reacts with an alcohol, -OH group. Acetic anhydride reacts with Salicylic acid to yield the ester (aspirin).

## **Preparation of Aspirin Lab Report - AcademicScope**

The main objective of the synthesis of aspirin lab was so produce aspirin (acetylsalicylic acid) through the reaction of salicylic acid and acetic anhydride. The methods used included recrystallization and scratching to produce a precipitate, which was then filtered to remove any excess moisture.

## **Synthesis of Aspirin - PHDessay.com**

Aspirin Synthesis Lab Part 1: The Synthesis of Aspirin Procedure Steps 3 - 5 were repeated twice more for two more titrations. Part 3: Preparation and Standardization of HCl Procedure Part 4: Quantitative Analysis of Aspirin Further Analysis Conclusion The overall objectives of

## **Aspirin Synthesis Lab Report by Alissa Lockwood**

Synthesis of Aspirin Prelaboratory Assignment Name and Drawer Number 1. Write the chemical formulas (determine the values of x, y, and z in the formula  $CH_xO_y$ .) for salicylic acid, acetic anhydride and acetylsalicylic acid. The structures for these compounds are shown in equation 16-1 of this lab manual. 2.

## **Solved: Synthesis Of Aspirin Prelaboratory Assignment Name ...**

Synthesis of Aspirin is known as esterification. Acetic anhydride is used as it is cheap and forms a by-product, acetic acid which is not corrosive and can be recovered to make more acetic anhydride

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unlike other acetylating agents that also can be used. All addition of chemicals to aspirin is done in the fumehood.

### **Synthesis and Recrystallization of Aspirin | Lab Report**

Alyssa Quinn CHEM 336 Lab September 10 th, 2020 Experiment 1: Synthesis of Aspirin PRE-LAB Objective:-The purpose of this lab is to identify which reagent best reacts when synthesizing Aspirin with the assistance of heat when using the TLC to follow the synthesis of the mild analgesic aspirin. The idea is to successfully react salicylic acid with acetic anhydride to create a product that forms ...

### **CHEM 336 LAB #1.docx - Alyssa Quinn CHEM 336 Lab September ...**

Synthesis of Aspirin Aspirin is the single most manufactured drug in the world. Aspirin's chemical name is acetylsalicylic acid, and it is synthesized from the reaction of acetic anhydride with salicylic acid in the presence of phosphoric acid as a catalyst. The by-product is acetic acid (Figure 5.1).

### **81 experiment**

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