

## *Synthesis Of Aspirin Pre Lab Answers*

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### Synthesis Of Aspirin Pre Lab

Pre-lab exercise Preparation of Aspirin (Complete and check answers before coming to lab) 1. During the preparing aspirin lab activity, a student attempts to determine how much aspirin she made. She looked back at her data: mass of flask 73.86 g \_ mass of flask and salicylic acid 77.88 g

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

The excess acetic acid will be quenched with the addition of water. The aspirin product is not very soluble in water so the aspirin product will precipitate when water is added. The synthesis reaction of aspirin is shown below: Since acetic acid is very soluble in water, it is easily separated from the aspirin product.

### Experiment 5 - Synthesis of Aspirin

Department of Chemistry Synthesis of Aspirin PRE-LABORATORY ASSIGNMENT NAME DATE LAB DAY  
TIME INSTRUCTIONS: 1. Each student will complete, print and submit the pre-laboratory assignment at the beginning of the lab period. 2. This assignment will be graded out of a total of 30 points.

### 9\_Aspirin\_PRE-LAB.pdf - Synthesis of Aspirin Department of ...

Heather Graehl. Title: Experiment 2: Synthesis of Aspirin. Pre-lab questions: Compound Molecular weight Hazards Density Melting point Salicylic acid 138.12 Irritating to eyes and skin. Toxic if inhaled. X 156-161 C Acetic anhydride 102.09 Corrosive, flammable, irritating to eyes and skin. Toxic if inhaled.

### Title: Experiment 2: Synthesis of Aspirin - Graehl

Synthesis and Characterization of Aspirin. Reaction of Salicylic Acid and Acetic Anhydride to form Aspirin and Acetic Acid The rings shown in the Salicylic acid and Aspirin molecules are hexagonal rings of carbon compounds, with alternating single and double bonds as indicated by the double lines.

### Synthesis and Characterization of Aspirin - odinity.com

Lab B - Synthesis of Aspirin. -In the synthesis of aspirin, you will treat salicylic acid with acetic anhydride -In order to proceed, the reaction requires an acid catalyst - phosphoric acid -In this lab, we will be using 90% of our salicylic acid to synthesize aspirin -At the end of the aspirin reaction, we will be able to isolate...

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

Transcript of Aspirin Synthesis Lab Report. The Kolbe Synthesis for the production of salicylic acid was created by the German chemist Hermann Kolbe. In this process, sodium phenoxide is heated with carbon dioxide under pressure (100 atm) and the mixture is then acidified to yield salicylic acid.

### Aspirin Synthesis Lab Report by Alissa Lockwood on Prezi

Show transcribed image text 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  $\text{CH}_x\text{O}_y$ .) for salicylic acid, acetic anhydride and acetylsalicylic acid. The structures for these compounds are shown in equation 16-1 of this lab manual.

### Question: Synthesis of Aspirin Prelaboratory Assignment ...

• Part B will NOT be performed. • The synthesis of aspirin is an esterification reaction. • Esterification is the general name for a chemical reaction in which two chemicals (typically an alcohol and an acid) form an ester as the reaction product (aspirin). • Esterification is a reversible reaction.

### Aspirin Synthesis and Analysis - TCU Geology Department

Aspirin is a drug that is usually used to relieve minor aches and pain and other medical uses such

as anti-inflammatory medication. Aspirin is an ester that has high molecular weight and it not soluble in water hence the solid can be separated by crystallization process. Synthesis of Aspirin is known as esterification.

### **Synthesis of Aspirin Lab Report - ACADEMICSCOPE**

The products of the reaction between salicylic acid and acetic anhydride are acetylsalicylic acid and acetic acid<sup>3</sup>. Synthesis 2.0 grams of salicylic acid, 5.0 mL of acetic anhydride and 5 drops of 85% phosphoric acid solution were placed into a 50 mL Erlenmeyer flask.

### **Esterification reaction: the synthesis and purification of ...**

Figure 1 Aspirin synthesis: Aspirin is not stable indefinitely and can, over time, react with moisture to revert back to salicylic acid by a process known as hydrolysis, Figure 2. Figure 2: Aspirin Hydrolysis. In this laboratory we will analyze lab synthesized and commercial aspirin for purity by both qualitative and quantitative methods.

### **Aspirin Synthesis and Analysis - State College of Florida ...**

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### **Synthesis and Analysis of Aspirin Lab Flashcards | Quizlet**

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### **lab report answers for aspirin synthesis? | Yahoo Answers**

SYNTHESIS OF ASPIRIN Pre-Lab Assignment Study the sections related to stoichiometry and limiting reactant in your textbook. If you need guidance, follow the steps in the Report Sheets. 1 A student prepared aspirin using 2.019 g of salicylic acid and 5.2 mL of acetic anhydride ( $d = 1.08 \text{ g/mL}$ ). a Which reactant is limiting, salicylic acid or acetic anhydride?

### **Pre-Lab 7.docx - SYNTHESIS OF ASPIRIN Pre-Lab Assignment ...**

82 EXPERIMENT 5: SYNTHESIS OF ASPIRIN • Report data collected and subsequent calculations to [www.chem21labs.com](http://www.chem21labs.com). • All equipment should be returned to the correct location after use. WASTE • Salicylic acid should be disposed of in the solid waste container.

### **81 experiment - chem21labs.com**

CHEM111L General Chemistry I Lab Rose-Hulman Institute of Technology Prof. Ross Weatherman.

### **CHEM111L: Aspirin post-lab analysis**

For the synthesis of aspirin, how do you calculate the percent yield if the reaction produces 4.70 grams of aspirin. The reaction, using molecular formulas is  $\text{C}_7\text{H}_6\text{O}_3 + \text{C}_4\text{H}_6\text{O}_3 \rightarrow \text{C}_9\text{H}_8\text{O}_4 + \text{C}_2\text{H}_4\text{O}_2$ .

### **For the synthesis of aspirin, how do you calculate the ...**

Overall, the purpose of this lab, to synthesis aspirin and prove its purity using organic functional groups, was accomplished successfully. The final product of synthesized aspirin contained no starting materials and its molecular weight was relatively close to that of pure aspirin, thus it was almost entirely pure.

## Synthesis Of Aspirin Pre Lab Answers

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