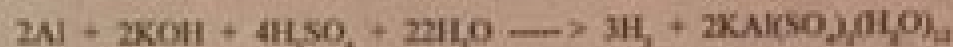


## CHM 140 Lab 5 Synthesis of Alum from Aluminum Foil

**Purpose:** In this experiment, a commercially useful compound, alum, is synthesized from aluminum foil, KOH, and  $\text{H}_2\text{SO}_4$  according to the following balanced reaction:



Calculating the moles of each reactant used in the synthesis will allow for the determination of the limiting reactant. Once the limiting reactant is determined, the theoretical yield of  $2\text{KAl}(\text{SO}_4)_2(\text{H}_2\text{O})_{12}$  can be determined. Then, the percent yield can be calculated by dividing the actual yield by the theoretical yield and multiplying by 100.

Data from the video will be used for the calculations.

<https://youtu.be/K9LZZ1pnshI> Synthesis of Alum

Data:

1. Mass of aluminum

0.545

g

2. Mass of empty Buchner funnel and filter paper

16.153

g

3. Mass of Buchner funnel, filter paper, and alum

21.972

g

4. Mass of alum (actual yield)

5.819

g

5. Volume of 1.4 M KOH used

27.0

ml.

6. Volume of 9.0 M  $\text{H}_2\text{SO}_4$  used

12.0

ml.

**Calculations:** Determine the limiting reactant. Show work for calculations.

7. Moles of Al

\_\_\_\_\_ moles Al

8. Moles of KOH

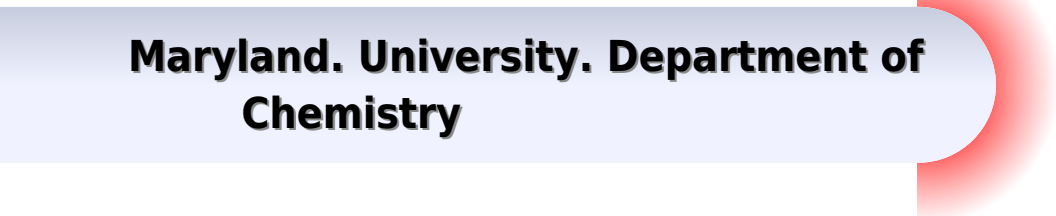
\_\_\_\_\_ moles KOH

9. Moles of  $\text{H}_2\text{SO}_4$

\_\_\_\_\_ moles  $\text{H}_2\text{SO}_4$

# Alum From Aluminum Lab Answers

**Maryland. University. Department of  
Chemistry**



## **Alum From Aluminum Lab Answers:**

**Chemistry in the Laboratory** James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations     **Phosphorus Removal** Water Resources Scientific Information Center, 1973 490 references and abstracts from Selected water resources abstracts through Feb 15 1973 v 6 no 4 Each entry consists of title author source descriptors identifiers abstract and accession number Keyword index     Phosphorus Removal ,1973     Laboratory Chemistry Maryland. University. Department of Chemistry, 1973     **Journal of Medico-physical Research** ,1928     *Basic Earth Science* ,1964     *Tappi Journal* ,1993     **Selected Water Resources Abstracts** ,1972     **Chemical Principles** Ralph J. Christensen, 1998     **Heating, Piping, and Air Conditioning** ,1932 Issues for Jan 1935 contain a directory of heating piping and air conditioning equipment     **Continuous Photoprocessing Specialist (AFSC 23350)**. James E. McLaurin, 1984     **Selected Water Resources Abstracts** ,1988     *Journal of the American Water Works Association* American Water Works Association, 1955 Vols for 2012 contain only executive summaries of articles     **Proceedings** ,1974     **Annual Offshore Technology Conference [preprints]**. ,1974     *Plating and Surface Finishing* ,2000     Technical Association of the Pulp and Paper Industry ,1955     **Chemical, Color and Oil Record** ,1923     *History, Geology, and Environmental Setting of the Lower Fair Day Mine, Arapaho/Roosevelt National Forest, Boulder County, Colorado* John Neubert, 2000     **Nebraska Experiment Station Quarterly** ,1952

## **Alum From Aluminum Lab Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Alum From Aluminum Lab Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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