

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 H_2SO_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 H_2SO_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 H_2SO_4

_____ moles H_2SO_4

Alum From Aluminum Lab Answers

JR Anderson



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 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 **Journal of Medico-physical Research** , 1928 *Laboratory Chemistry* Maryland. University. Department of Chemistry, 1973 **Basic Earth Science** , 1964 **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 *Tappi Journal* , 1993 **Selected Water Resources Abstracts** , 1972-04 **Journal of the American Water Works Association** American Water Works Association, 1955 Vols for 2012 contain only executive summaries of articles *Chemical Principles* Ralph J. Christensen, 1998 *Proceedings* , 1974 **History, Geology, and Environmental Setting of the Lower Fair Day Mine, Arapaho/Roosevelt National Forest, Boulder County, Colorado** John Neubert, 2000 **Annual Offshore Technology Conference [preprints]**. , 1974 **Technical Association of the Pulp and Paper Industry** , 1955 *Plating and Surface Finishing* , 2000 **Nebraska Experiment Station Quarterly** , 1952 **Chemical, Color and Oil Record** , 1923 *The Ohio State Engineer* , 1928

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