

## Synthesis of Alum

1. Second Quiz (Density / Alum)
2. Collect lab-report (Density) and Pre-Lab (Alum)
3. Lecture on Today's Experiment
4. Demonstrate how to perform gravity filtration, suction filtration and Bunsen burner

### Lecture:

**Goal:** synthesize alum from Aluminum can

- Learn to perform laboratory technique of purification by filtration
- Calculating theoretical yield and percent yield

Chemical formula for Alum :  $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

Alum – use in medical, cooking, water treatment etc,.....

Chemical RXN – Handout



→ step 3-4 : Dissolve metal in excess strong base KOH to form a complex ion and  $\text{H}_2$  gas (bubbles)

→ use gravity filtration to filter the solution while it's still hot, keep the filtrate (What is the filtrate)



→ step 8: Neutralize excess  $-\text{OH}$  in the filtrate with  $\text{H}_2\text{SO}_4$  → precipitation will form



→ Step 9: more acid is added to dissolve  $\text{Al}(\text{OH})_3$  solid to form a soluble  $\text{KAl}(\text{SO}_4)_2$ , this is not really an Hydrated Alum



→ this can be filter using suction filtration and dry

- Student must wait after 48 hours to weigh their sample and must be done prior the next class meeting (penalty will be applied)
- Prefer to the class schedule to check when the lab will open, you should come 1 hour after the lab start and must ask for permission (WEAR GOGGLES!!!!)

# Alum Synthesis Lab Answers

**Kenneth J. McNaughton**



## Alum Synthesis Lab Answers:

*Handbook of Aluminum Bonding Technology and Data* J. D. Minford, 1993-06-16 A reference that offers comprehensive discussions on every important aspect of aluminum bonding for each level of manufacturing from mill finished to deoxidized conversion coated anodized and painted surfaces and provides an extensive up to date review of adhesion science covering all significant *The Use of Aluminum Alkyls in Organic Synthesis* Ethyl Corporation. Industrial Chemicals Division, 1970

**Laboratory Chemistry** Maryland. University. Department of Chemistry, 1973 **Proceedings of the American Pharmaceutical Association at the annual meeting**, 1894 Strategic Disconnections in Retrosynthetic Analysis from Pattern Recognition Claudio Trombini, 2025-12-11 Strategic Disconnections in Retrosynthetic Analysis from Pattern Recognition An Applied Approach introduces retrosynthetic analysis through strategic disconnection methods It prioritizes disconnections of general structures characterized by specific functionalization patterns or structural motifs like stereogenic centers or bicyclic frameworks Numerous examples from carefully selected literature illustrate each strategic disconnection organized by functional or structural pattern selected disconnection and polar radical or concerted reaction pathways Developing a deep understanding of these examples enhances 3D visualization skills critical reasoning and expertise in synthetic strategies The book offers insights into advancements in organic synthesis over the last 50 years with cases of varying complexity from curated literature Readers can focus on examples that align with their interests or lab work each case referenced for easy access to primary information It is ideal for graduate and postdoc students in organic chemistry and synthesis and researchers in industry Advanced undergraduate students with a solid organic chemistry foundation may also find it beneficial Provides clear schematizations and organized teaching materials in well structured chapters that are designed to aid students in the retention of information and its application to specific problems Collects over a thousand examples drawn from the literature explaining each single concept Encourages students to handle molecules from a 3D stereochemical perspective and observe structural patterns that are often overlooked Suggests alternative synthetic strategies **Organic Chemistry, Part 1 of 3** Richard Daley, 2005-07-26 This textbook is where you the student have an introduction to organic chemistry Regular time spent in learning these concepts will make your work here both easier and more fun *Proceedings of the American Pharmaceutical Association at the Annual Meeting* American Pharmaceutical Association. Annual Meeting, American Pharmaceutical Association, 1894 The issues for 1857 1911 include Report on the progress of pharmacy The last volume 1911 contains only Report on the progress of pharmacy the constitution by laws and roll of members **Chemists' Guide to Effective Teaching** Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to

implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry     **Engineered Materials Abstracts** ,1991     **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction     **Industrial Laboratory** ,1988     *Holt Chemistry* Ralph Thomas Myers,2004     **College Chemistry** Harold Goldwhite,John R. Spielman,1984 An outline of the basic concepts of chemistry includes discussions of scientific notation atomic structure chemical bonding and the periodic table     **Scientific American** ,1891     *Veterinary and Human Toxicology* ,1999     *Monthly Index of Russian Accessions* Library of Congress. Processing Department,1957-08  
       *Canadian Chemical Processing* ,1950     **Canadian Chemistry and Process Industries** ,1950     **Scientific and Technical Aerospace Reports** ,1963     **Materials Engineering: Controlling corrosion in process equipment** Kenneth J. McNaughton,1980

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