Synthesis of Alum

- Second Quiz (Density/Alum)
- 2. Collect lab-report (Density) and Pre-Lab (Alum)
- Lecture on Today's Experiment
- Demostrate 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 : KAl(SO₄)₂ · 12H₂O

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

Chemical RXN - Handout

$$2Al(s) + 2KOH(aq) + 6H_2O(l) \rightarrow 2K[Al(OH)_4] + 3H_{200}$$

→ step 3-4: Dissolve metal in excess strong base KOH to form a complex ion and H₂ gas (bubbles)

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

$$2K[Al(OH)_{*}](aq) + H_{*}SO_{*}(l) \rightarrow 2Al(OH)_{*}(s) + 2H_{*}O(l) + K_{*}SO_{*}(aq)$$

→ step 8: Neutralize excess –OH in the filtrate with H₂SO₄ → precipitation will form

$$2AI(OH)_1(s) + 3H_1SO_4(aq) + K_2SO_4 \rightarrow 2KAI(SO_4)_2(aq) + 6H_2O(1)$$

→ Step 9: more acid is added to dissolve Al(OH)₃ solid to form a soluble KAl(SO₄)₂, this is not really an Hydrated Alum

$$KAl(SO_4)_2(aq) + excess H_2O (0^{\circ}C) \rightarrow KAl(SO_4)_2 \cdot 12H_2O$$

→ 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

Maryland. University. Department of Chemistry

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Table of Contents Alum Synthesis Lab Answers

- 1. Understanding the eBook Alum Synthesis Lab Answers
 - The Rise of Digital Reading Alum Synthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Alum Synthesis Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Alum Synthesis Lab Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Alum Synthesis Lab Answers
 - Personalized Recommendations
 - $\circ\,$ Alum Synthesis Lab Answers User Reviews and Ratings
 - Alum Synthesis Lab Answers and Bestseller Lists
- 5. Accessing Alum Synthesis Lab Answers Free and Paid eBooks
 - Alum Synthesis Lab Answers Public Domain eBooks
 - Alum Synthesis Lab Answers eBook Subscription Services
 - Alum Synthesis Lab Answers Budget-Friendly Options

- 6. Navigating Alum Synthesis Lab Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Alum Synthesis Lab Answers Compatibility with Devices
 - Alum Synthesis Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Alum Synthesis Lab Answers
 - Highlighting and Note-Taking Alum Synthesis Lab Answers
 - Interactive Elements Alum Synthesis Lab Answers
- 8. Staying Engaged with Alum Synthesis Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Alum Synthesis Lab Answers
- 9. Balancing eBooks and Physical Books Alum Synthesis Lab Answers
 - \circ Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Alum Synthesis Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Alum Synthesis Lab Answers
 - Setting Reading Goals Alum Synthesis Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alum Synthesis Lab Answers
 - Fact-Checking eBook Content of Alum Synthesis Lab Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

• Interactive and Gamified eBooks

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