

## 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 From Aluminum Lab Answers

**M Lipman**



**Alum From Aluminum Lab Answers:**

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Alum From Aluminum Lab Answers**

In a global inundated with monitors and the cacophony of instant interaction, the profound power and mental resonance of verbal beauty frequently disappear into obscurity, eclipsed by the continuous assault of noise and distractions. However, set within the musical pages of **Alum From Aluminum Lab Answers**, a interesting function of fictional brilliance that impulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that enchanting opus manuals viewers on a mental odyssey, delicately revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect its charming writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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### **Table of Contents Alum From Aluminum Lab Answers**

1. Understanding the eBook Alum From Aluminum Lab Answers
  - The Rise of Digital Reading Alum From Aluminum Lab Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Alum From Aluminum 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 From Aluminum Lab Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Alum From Aluminum Lab Answers
  - Personalized Recommendations

- Alum From Aluminum Lab Answers User Reviews and Ratings
- Alum From Aluminum Lab Answers and Bestseller Lists
- 5. Accessing Alum From Aluminum Lab Answers Free and Paid eBooks
  - Alum From Aluminum Lab Answers Public Domain eBooks
  - Alum From Aluminum Lab Answers eBook Subscription Services
  - Alum From Aluminum Lab Answers Budget-Friendly Options
- 6. Navigating Alum From Aluminum Lab Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Alum From Aluminum Lab Answers Compatibility with Devices
  - Alum From Aluminum Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Alum From Aluminum Lab Answers
  - Highlighting and Note-Taking Alum From Aluminum Lab Answers
  - Interactive Elements Alum From Aluminum Lab Answers
- 8. Staying Engaged with Alum From Aluminum Lab Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Alum From Aluminum Lab Answers
- 9. Balancing eBooks and Physical Books Alum From Aluminum Lab Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Alum From Aluminum Lab Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Alum From Aluminum Lab Answers
  - Setting Reading Goals Alum From Aluminum Lab Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alum From Aluminum Lab Answers
  - Fact-Checking eBook Content of Alum From Aluminum 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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