

Analysis of Alum $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

After a compound has been synthesized, tests should be carried out to verify the compound formed is indeed the compound desired. There are a number of various tests that can be performed to verify that the compound is the one desired. In a previous experiment, alum crystals were prepared. In this experiment we will do several tests to determine if the crystals are really alum.

The first and simplest test is to find the melting point of the compound and compare it to the published value for alum. A small quantity of alum is powdered and placed on a melting point apparatus. The crystals are heated on the melting point apparatus on a hot plate, and the temperature at which they melt is recorded and compared to the reported values.

The second test that we can do is to determine the amount of water of hydration present in the alum crystals. Some of the alum is placed in a crucible and weighed. The crucible is heated until all of the water of hydration is driven off. The crucible is then cooled and its mass measured. From the mass of the dry crystals and the mass of the water lost, the ratio of moles water to moles $\text{KAl}(\text{SO}_4)_2$ can be calculated and then compared to the correct formula values.

The third test is a chemical test to determine the percent of sulfate in the compound prepared. A weighed quantity of alum is dissolved in distilled water. An excess of barium ions is added to the solution to precipitate all of the sulfate in the compound as barium sulfate. The precipitated barium sulfate is filtered off, dried, and its mass determined. From the mass of the barium sulfate and the initial mass of the alum, the percent sulfate can be calculated and compared with the theoretical percent found from the formula.

Chemicals

Parts 1, 2, and 3

Alum crystals prepared by you in the Lab
Known Alum crystals

Part 3

Barium nitrate, $\text{Ba}(\text{NO}_3)_2$, 0.2M

Equipment

Part 1

Capillary Tube	Thermometer
Melting point apparatus	Mortar and pestle
Hot plate	

Part 2

Crucible and cover	Ring stand, ring and Bunsen burner
Clay triangle	

Analysis Of Alum Lab Answers Sulfate

JS Bruner



Analysis Of Alum Lab Answers Sulfate:

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This book delves into Analysis Of Alum Lab Answers Sulfate. Analysis Of Alum Lab Answers Sulfate is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Analysis Of Alum Lab Answers Sulfate, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Analysis Of Alum Lab Answers Sulfate
 - Chapter 2: Essential Elements of Analysis Of Alum Lab Answers Sulfate
 - Chapter 3: Analysis Of Alum Lab Answers Sulfate in Everyday Life
 - Chapter 4: Analysis Of Alum Lab Answers Sulfate in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Analysis Of Alum Lab Answers Sulfate. This chapter will explore what Analysis Of Alum Lab Answers Sulfate is, why Analysis Of Alum Lab Answers Sulfate is vital, and how to effectively learn about Analysis Of Alum Lab Answers Sulfate.
3. In chapter 2, the author will delve into the foundational concepts of Analysis Of Alum Lab Answers Sulfate. This chapter will elucidate the essential principles that need to be understood to grasp Analysis Of Alum Lab Answers Sulfate in its entirety.
4. In chapter 3, the author will examine the practical applications of Analysis Of Alum Lab Answers Sulfate in daily life. The third chapter will showcase real-world examples of how Analysis Of Alum Lab Answers Sulfate can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Analysis Of Alum Lab Answers Sulfate in specific contexts. This chapter will explore how Analysis Of Alum Lab Answers Sulfate is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Analysis Of Alum Lab Answers Sulfate. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Analysis Of Alum Lab Answers Sulfate.

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