

# Polyatomic Ions

Can a group of atoms have a charge?

## Why?

Do you know you eat a lot of "-ates"? Next time you look at a food label, read the ingredients and you will likely find a number of ingredients that end with "-ate," such as sodium phosphate or calcium carbonate. Did you ever wonder what the chemical formulas of these ingredients look like? In this activity we will explore polyatomic ions, which are groups of atoms that carry a charge. These ions are found in our food ingredients, natural waterways, and many other chemical compounds you encounter every day.

## Model 1 – Types of Ions

| Monatomic Ions  | Nitride<br> | Sulfide<br> | Chloride<br>  |
|-----------------|--|--|--|
| Polyatomic Ions | Nitrate<br> | Sulfate<br>  | Ammonium<br>  |
|                 | Nitrite<br> | Sulfite<br>  | Hydroxide<br> |

1. Use Model 1 to complete the table below.

| Name of Ion              | Nitride    | Nitrate                | Sulfate              | Sulfite              | Ammonium                 |
|--------------------------|------------|------------------------|----------------------|----------------------|--------------------------|
| Charge on Ion            | -3         | -1                     | -2                   | -2                   | +1                       |
| Type and Number of Atoms | 1 nitrogen | 1 nitrogen<br>3 oxygen | 1 sulfur<br>4 oxygen | 1 sulfur<br>3 oxygen | 1 nitrogen<br>4 hydrogen |
| Chemical Formula         | $N^{3-}$   | $NO_3^{1-}$            | $SO_4^{2-}$          | $SO_3^{2-}$          | $NH_4^{1+}$              |

# Polyatomic Ions Pogil

**RS Peters**



## **Polyatomic Ions Pogil:**

This book delves into Polyatomic Ions Pogil. Polyatomic Ions Pogil is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Polyatomic Ions Pogil, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Polyatomic Ions Pogil
- Chapter 2: Essential Elements of Polyatomic Ions Pogil
- Chapter 3: Polyatomic Ions Pogil in Everyday Life
- Chapter 4: Polyatomic Ions Pogil in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Polyatomic Ions Pogil. The first chapter will explore what Polyatomic Ions Pogil is, why Polyatomic Ions Pogil is vital, and how to effectively learn about Polyatomic Ions Pogil.
3. In chapter 2, the author will delve into the foundational concepts of Polyatomic Ions Pogil. The second chapter will elucidate the essential principles that must be understood to grasp Polyatomic Ions Pogil in its entirety.
4. In chapter 3, this book will examine the practical applications of Polyatomic Ions Pogil in daily life. The third chapter will showcase real-world examples of how Polyatomic Ions Pogil can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Polyatomic Ions Pogil in specific contexts. The fourth chapter will explore how Polyatomic Ions Pogil is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Polyatomic Ions Pogil. 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 Polyatomic Ions Pogil.

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