

# 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 	Sulfide 	Chloride 
Polyatomic Ions	Nitrate 	Sulfate 	Ammonium 
	Nitrite 	Sulfite 	Hydroxide 

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 3 oxygen	1 sulfur 4 oxygen	1 sulfur 3 oxygen	1 nitrogen 4 hydrogen
Chemical Formula	$N^{3-}$	$NO_3^{1-}$	$SO_4^{2-}$	$SO_3^{2-}$	$NH_4^{1+}$

# Polyatomic Ion Pogil

**DP Hallahan**



## **Polyatomic Ion Pogil:**

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

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

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

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

The 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 Ion Pogil.

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### **Polyatomic Ion Pogil Introduction**

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