

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

AW Rasmussen



Polyatomic Ion Pogil:

Embracing the Tune of Phrase: An Emotional Symphony within **Polyatomic Ion Pogil**

In a global taken by screens and the ceaseless chatter of quick connection, the melodic beauty and psychological symphony created by the published term frequently fade in to the backdrop, eclipsed by the relentless noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Polyatomic Ion Pogil** a charming fictional prize overflowing with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this charming masterpiece conducts readers on a mental trip, well unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the emotional assessment, we will discover the book is main harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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