

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 Ions Answer Key

Eleanor Dantzler Siebert



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terms chapter outlines learning objectives and suggested readings help you organize your study Table of Radionuclides used in nuclear medicine and PET is provided in the appendix for quick reference More than 50 practice problems in the Mathematic and Statistics chapter let you brush up on basic math skills with answers provided in the back of the book 12 page full color insert includes clear PET CT scans showing realistic scans found in practice A glossary provides definitions of key terms and important concepts UPDATED content reflects the latest advances and provides the information you need to pass the boards NEW information on conducting research and managing clinical trials prepares you more fully for clinical success New information on administrative procedures includes coverage of coding and reimbursement NEW practice tests on the Evolve companion website help you apply your knowledge NEW A second color in the design highlights the most important material for easier study and understanding

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