

Naming Ionic Compounds

What are the structural units that make up ionic compounds and how are they named?

Why?

When working in chemistry, it is often convenient to write a chemical in symbols. For example we might write down the substance table salt as NaCl. In talking about chemistry however, it is a bit tacky to say "en-ay see-ell" when we want to refer to a substance. Also, in formal writing we should use the name of the compound rather than its symbols. Therefore we need to learn how to say the proper names of ionic substances.

Model 1 – Ion Charges for Selected Elements

1	H ⁺													
2	Li ⁺	Be ²⁺							N ³⁻	O ²⁻	F ⁻			
3	Na ⁺	Mg ²⁺	Transition elements				Al ³⁺		P ³⁻	S ²⁻	Cl ⁻			
4	K ⁺	Ca ²⁺	Fe ²⁺ Fe ³⁺	Ni ²⁺ Ni ³⁺	Cu ⁺ Cu ²⁺	Zn ²⁺						Br ⁻		
5	Rb ⁺	Sr ²⁺			Ag ¹⁺			Sn ²⁺ Sn ⁴⁺				I ⁻		
6		Ba ²⁺				Hg ₂ ²⁺ Hg ²⁺		Pb ²⁺ Pb ⁴⁺						
	Cations							Anions						

1. Based on the information in Model 1:

- a. Identify three elements that form only one cation. $\leftarrow$ Positive Ion
 Na^+ , Sr^{2+} , Al^{3+} (Any box with one element works.)
- b. Identify three elements that form only one anion. $\leftarrow$ Negative Ion
 P^{3-} , O^{2-} , Br^- (Any box with one element works.)
- c. Identify three elements that form more than one cation.
 Fe^{+2} and Fe^{+3} , Ni^{+2} and Ni^{+3} , Cu^{+1} and Cu^{+2}
- d. In what region of the periodic table are these "multiple ion" elements usually located?
Transition elements or "d" block

2. Consider the ions of potassium (K) and sulfur (S). Write chemical formulas for all possible ionic compounds involving these ions, using the simplest ratio(s) of potassium (K) and sulfur (S). Keep in mind that the sum of the charges in an ionic compound must equal zero.
- $2K^+$ and S^{2-} or K_2S
3. Consider the ions of iron (Fe) and sulfur (S). Write chemical formulas for all possible ionic compounds involving these ions, using the simplest ratio(s) of iron (Fe) and sulfur (S). Keep in mind that the sum of the charges in an ionic compound must equal zero.



Pogil Ionic Compounds

RM Cervero



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Table of Contents Pogil Ionic Compounds

1. Understanding the eBook Pogil Ionic Compounds
 - The Rise of Digital Reading Pogil Ionic Compounds
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Ionic Compounds
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pogil Ionic Compounds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Ionic Compounds
 - Personalized Recommendations
 - Pogil Ionic Compounds User Reviews and Ratings
 - Pogil Ionic Compounds and Bestseller Lists
5. Accessing Pogil Ionic Compounds Free and Paid eBooks
 - Pogil Ionic Compounds Public Domain eBooks
 - Pogil Ionic Compounds eBook Subscription Services
 - Pogil Ionic Compounds Budget-Friendly Options
6. Navigating Pogil Ionic Compounds eBook Formats

- ePub, PDF, MOBI, and More
- Pogil Ionic Compounds Compatibility with Devices
- Pogil Ionic Compounds Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Ionic Compounds
 - Highlighting and Note-Taking Pogil Ionic Compounds
 - Interactive Elements Pogil Ionic Compounds
- 8. Staying Engaged with Pogil Ionic Compounds
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Ionic Compounds
- 9. Balancing eBooks and Physical Books Pogil Ionic Compounds
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Ionic Compounds
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Ionic Compounds
 - Setting Reading Goals Pogil Ionic Compounds
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Ionic Compounds
 - Fact-Checking eBook Content of Pogil Ionic Compounds
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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