

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 ⁺	Transition elements								N ³⁻	O ²⁻	F ¹⁻			
2	Li ⁺	Be ²⁺													
3	Na ⁺	Mg ²⁺							Al ³⁺		P ³⁻	S ²⁻	Cl ¹⁻		
4	K ⁺	Ca ²⁺	Fe ²⁺ Fe ³⁺	Ni ²⁺ Ni ³⁺	Cu ⁺ Cu ²⁺	Zn ²⁺							Br ¹⁻		
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.



Chemical Compounds Lab Answers

Karen Timberlake



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Table of Contents Chemical Compounds Lab Answers

1. Understanding the eBook Chemical Compounds Lab Answers
 - The Rise of Digital Reading Chemical Compounds Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemical Compounds Lab Answers
 - 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 Chemical Compounds Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemical Compounds Lab Answers
 - Personalized Recommendations
 - Chemical Compounds Lab Answers User Reviews and Ratings

- Chemical Compounds Lab Answers and Bestseller Lists
- 5. Accessing Chemical Compounds Lab Answers Free and Paid eBooks
 - Chemical Compounds Lab Answers Public Domain eBooks
 - Chemical Compounds Lab Answers eBook Subscription Services
 - Chemical Compounds Lab Answers Budget-Friendly Options
- 6. Navigating Chemical Compounds Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemical Compounds Lab Answers Compatibility with Devices
 - Chemical Compounds Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemical Compounds Lab Answers
 - Highlighting and Note-Taking Chemical Compounds Lab Answers
 - Interactive Elements Chemical Compounds Lab Answers
- 8. Staying Engaged with Chemical Compounds Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemical Compounds Lab Answers
- 9. Balancing eBooks and Physical Books Chemical Compounds Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemical Compounds Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chemical Compounds Lab Answers
 - Setting Reading Goals Chemical Compounds Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemical Compounds Lab Answers
 - Fact-Checking eBook Content of Chemical Compounds Lab Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web description a complete revision of the definitive work on the subject of stress concentration this new edition updates all of the graphics with computer generated art which incorporates both a visual representation of the product structure under consideration along with the graph of the stress concentration factors