

Naming Ionic Compounds

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

www

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⁺												
3	Na ⁺	Mg ²⁺	Transition elements						Al ³⁺		N ³⁻	O ²⁻	F ⁻	
4	K ⁺	Ca ²⁺	Fe ²⁺ Fe ³⁺	Ni ²⁺ Ni ³⁺	Cu ⁺ Cu ²⁺	Zn ²⁺							Br ⁻	
5	Rb ⁺	Sr ²⁺			Ag ⁺			Sn ²⁺ Sn ⁴⁺					I ⁻	
6		Ba ²⁺				Hg ²⁺ Hg ²⁺		Pb ²⁺ Pb ⁴⁺						
← Cations														

- Based on the information in Model 1:
 - Identify three elements that form only one cation.
 K^+ , Li^+ , H^+
 - Identify three elements that form only one anion.
 N^{3-} , P^{3-} , S^{2-}
 - Identify three elements that form more than one cation.
 Fe^{2+} , Ni^{2+} , Sr^{2+}
 Pb^{2+} , Ni^{3+} , Sr^{2+}
 Sr^{2+}
 - In what region of the periodic table are these "multiple ion" elements usually located?
 Transition elements
- 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.
 K_2S
- 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.



Ionic Bonding Pogils Answers

Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Mark Steyvers.

Ionic Bonding Pogils Answers:

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

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

- Chapter 1: Introduction to Ionic Bonding Pogils Answers
- Chapter 2: Essential Elements of Ionic Bonding Pogils Answers
- Chapter 3: Ionic Bonding Pogils Answers in Everyday Life
- Chapter 4: Ionic Bonding Pogils Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Ionic Bonding Pogils Answers. The first chapter will explore what Ionic Bonding Pogils Answers is, why Ionic Bonding Pogils Answers is vital, and how to effectively learn about Ionic Bonding Pogils Answers.
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6. In chapter 5, the author will draw a conclusion about Ionic Bonding Pogils Answers. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ionic Bonding Pogils Answers.

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