

Naming Ionic Compounds

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

WINE

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+}			Sa^{2+} Sa^{3+}				I^-
6		Ba^{2+}				Hg^{2+} Hg^{3+}		Pb^{2+} Pb^{4+}				
	Cations						Anions					

- 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^{4+}
 - 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

Margaret Irene Lindsay



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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

Ionic Bonds | Characteristics of Ionic Bonds and Properties of Ionic Compounds | Grade 6-8 Physical Science Dot EDU, 2024-04-15 Dive into the electrifying world of Ionic Bonds Characteristics and Properties for grades 6 8 This insightful book unravels the mysteries of ionic bonds and compounds explaining their formation characteristics and role in the matter s structure Discover the intricacies of atoms the exchange of electrons and the fascinating properties of ionic compounds through engaging examples and explanations Perfect for educators and students this resource illuminates a foundational concept in physical science Add it to your science curriculum to spark curiosity and understanding in young learners

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Ionic Bonding , 2006

Chemical Bonding Kok Koon Leong, 2021-05-03 This book introduces the principles behind chemical bonding to teenagers between the ages of fifteen to seventeen Topics covered include ionic bonding covalent bonding and metallic bonding

Chemistry Richard S. Moog, John J. Farrell, 2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge

Teaching Chemical Bonding Margaret Irene Lindsay, 1995 This document presents an instructional strategy for teaching chemical bonding using parables and music Games student interactions and worksheets are included in the lesson plans Topics include metallic bonding covalent bonding including molecular and network structure and ionic bonding JRH

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