

Bonds and Covalent Bonds Study Guide

We will be defining the following terms:

- | | | |
|-------------------|-----------------|--------------------|
| • covalent bond | • anion | • polyatomic ion |
| • Lewis structure | • cation | • hydrogen bonding |
| • molecule | • chemical bond | • valence electron |
| • polar bond | • ionic bond | |
| • non-polar bond | • ion | |

1. A group of covalently bonded atoms that acts together as one charged atom is a polyatomic ion.
2. A chemical bond that occurs when atoms share electrons is called a covalent bond.
3. The octet rule tells you how many electrons an atom must gain, lose, or share to become stable.
4. The oxidation number of an atom is shown with a roman numeral in parenthesis.
5. How many electrons are needed to fill the outer energy levels of most atoms for the atom to be chemically stable? 8 (Eight)
6. Why do the noble gases NOT form compounds readily? They have 8 electrons in their outer electron shell.
7. What is the total number of atoms in the compound $\text{Ca}(\text{OH})_2$? 4 (four)
8. Explain why it is correct to say that a compound like calcium chloride, CaCl_2 , contains both ionic and covalent bonds. Chlorine is a polyatomic ion so when bonded and there is more an ionic bond with Calcium.
9. Name or write the formula for the following ionic compounds:
 - a. Al_2O_3 Aluminum Oxide
 - b. MgCl_2 Magnesium Chloride
 - c. FeCl_2 Iron (II) Chloride
 - d. magnesium (II) oxide MgO
 - e. calcium chloride CaCl_2
 - f. lead (IV) nitrate $\text{Pb}(\text{NO}_3)_4$

Ions Chemthink Answers

SJ Ball



Ions Chemthink Answers:

The book delves into Ions Chemthink Answers. Ions Chemthink Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ions Chemthink Answers, encompassing both the fundamentals and more intricate discussions.

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

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

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