

# CHEMISTRY CHEAT SHEET

## NAMING SIMPLE COMPOUNDS

### NAMING SIMPLE COMPOUNDS Cheat Sheet

#### Naming Compounds with Two Monatomic Ions

1. **Identify the cation and anion.**  
2. **Find the oxidation numbers of the cation and anion.**  
3. **Find the sum of the oxidation numbers.**  
4. **Find the common multiple of the oxidation numbers.**  
5. **Divide the common multiple by the sum of the oxidation numbers.**  
6. **Find the ratio of the cation to the anion.**  
7. **Find the name of the cation and the name of the anion.**  
8. **Find the name of the compound.**

#### Monatomic Ions

Element	Monatomic Ion
Li	Li <sup>+</sup>
Na	Na <sup>+</sup>
Mg	Mg <sup>2+</sup>
Al	Al <sup>3+</sup>
Si	Si <sup>4+</sup>
P	P <sup>3-</sup>
S	S <sup>2-</sup>
Cl	Cl <sup>-</sup>
Br	Br <sup>-</sup>
I	I <sup>-</sup>

#### Monatomic Ions with Double Negatives

Element	Monatomic Ion
O	O <sup>2-</sup>
N	N <sup>3-</sup>
F	F <sup>-</sup>

#### Monatomic Ions of Metals and Nonmetals

Element	Monatomic Ion
Ca	Ca <sup>2+</sup>
Mg	Mg <sup>2+</sup>
Al	Al <sup>3+</sup>
Si	Si <sup>4+</sup>
P	P <sup>3-</sup>
S	S <sup>2-</sup>
Cl	Cl <sup>-</sup>
Br	Br <sup>-</sup>
I	I <sup>-</sup>

#### Monatomic Ions

Element	Monatomic Ion
Li	Li <sup>+</sup>
Na	Na <sup>+</sup>
Mg	Mg <sup>2+</sup>
Al	Al <sup>3+</sup>
Si	Si <sup>4+</sup>
P	P <sup>3-</sup>
S	S <sup>2-</sup>
Cl	Cl <sup>-</sup>
Br	Br <sup>-</sup>
I	I <sup>-</sup>

#### Common Monatomic Ions

Element	Monatomic Ion
O	O <sup>2-</sup>
N	N <sup>3-</sup>
F	F <sup>-</sup>
Ca	Ca <sup>2+</sup>
Mg	Mg <sup>2+</sup>
Al	Al <sup>3+</sup>
Si	Si <sup>4+</sup>
P	P <sup>3-</sup>
S	S <sup>2-</sup>
Cl	Cl <sup>-</sup>
Br	Br <sup>-</sup>
I	I <sup>-</sup>

# Naming Compounds Study Guide

**Jill Meryl Levy**

## **Naming Compounds Study Guide:**

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### **Table of Contents Naming Compounds Study Guide**

1. Understanding the eBook Naming Compounds Study Guide
  - The Rise of Digital Reading Naming Compounds Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Naming Compounds Study Guide
  - 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 Naming Compounds Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Naming Compounds Study Guide
  - Personalized Recommendations

- Naming Compounds Study Guide User Reviews and Ratings
- Naming Compounds Study Guide and Bestseller Lists

5. Accessing Naming Compounds Study Guide Free and Paid eBooks

- Naming Compounds Study Guide Public Domain eBooks
- Naming Compounds Study Guide eBook Subscription Services
- Naming Compounds Study Guide Budget-Friendly Options

6. Navigating Naming Compounds Study Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Naming Compounds Study Guide Compatibility with Devices
- Naming Compounds Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Naming Compounds Study Guide
- Highlighting and Note-Taking Naming Compounds Study Guide
- Interactive Elements Naming Compounds Study Guide

8. Staying Engaged with Naming Compounds Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Naming Compounds Study Guide

9. Balancing eBooks and Physical Books Naming Compounds Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Naming Compounds Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Naming Compounds Study Guide

- Setting Reading Goals Naming Compounds Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Naming Compounds Study Guide

- Fact-Checking eBook Content of Naming Compounds Study Guide

- 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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