



CHEMISTRY

CHEAT SHEET



NAMING SIMPLE COMPOUNDS

NAMING SIMPLE COMPOUNDS CHEAT SHEET

Naming Compounds with Their Formulas
(Show the ions involved in the compound)



Directions for naming:

1. Write the cation name first.
2. Write the anion name second.
3. If the cation is a metal, write the element name.
4. If the cation is a non-metal, write the element name with a Roman numeral in parentheses.
5. If the anion is a non-metal, write the element name with an -ide suffix.
6. If the anion is a polyatomic ion, write the name of the ion.

Binary Compounds

First Element	Anion
H	hydrogen
C	carbon
N	nitrogen
O	oxygen
F	fluorine
Cl	chlorine
S	sulfur
Br	bromine
I	iodine
Al	aluminum
Zn	zinc
Fe	iron
Cu	copper
Pb	lead
Ag	silver

Common Ions and Their Names

Formula	Name
H ⁺	hydrogen
Li ⁺	lithium
Na ⁺	sodium
K ⁺	potassium
Mg ²⁺	magnesium
Ca ²⁺	calcium
Fe ²⁺	iron (II)
Fe ³⁺	iron (III)
Cu ²⁺	copper (II)
Zn ²⁺	zinc
Pb ²⁺	lead (II)
Ag ⁺	silver

Naming Compounds with a Metal and a Nonmetal



Sodium Chloride

Directions for naming:

1. Write the cation name first.
2. Write the anion name second.

Naming Anions

Element	Ion Name	Element	Ion Name
F	fluoride	Br	bromide
Cl	chloride	I	iodide
S	sulfide	O	oxide
N	nitride	C	carbide
P	phosphide	As	arsenide
Se	selenide	Te	telluride
Bi	bismuthide	Pb	plumbide

Common Names for Specific Compounds

Formula	Common Name	Formula	Common Name
NaCl	table salt	NaOH	caustic soda
HCl	hydrochloric acid	CaCl ₂	dry ice
Na ₂ CO ₃	soda ash	Na ₂ SO ₄	gypsum

Naming Compounds Study Guide

Jill Meryl Levy



Naming Compounds Study Guide:

Organic Chemistry, Student Study Guide and Solutions Manual David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems *Organic Chemistry, 5e Student Study Guide and Solutions Manual* David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Organic Chemistry, 4e Student Solution Manual and Study Guide David R. Klein, 2021-01-07 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Solution Manual and Study Guide 4th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Basic Concepts of Chemistry, Study Guide Leo J. Malone, 1989-02-21 This Third Edition revised to provide smoother transitions between topics employs a concise yet informal approach to basic chemistry organized to help students employ basic math skills and problem solving strategies Writing style is straightforward and presentation incorporates many concrete analogies to clarify new concepts Includes many illustrative worked examples

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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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