

Nomenclature of Ionic Compounds (ANSWER KEY)

Binary Ionic Compounds:

Writing Names	Writing Formula
<ol style="list-style-type: none"> 1. Write the name of the cation (metal) 2. Write the name of the anion (non-metal), drop the last syllable of the name, and change the suffix to "-ide". <p>(Note: for the anions of O, N, H, P, Se, and Te drop the last two syllables)</p>	<ol style="list-style-type: none"> 1. Examine the name of the compound. Identify the ions and their oxidation states. 2. Determine the number of each ion needed to balance the charges. 3. Note the ratio of positive to negative ions, and write the formula. 4. Write the chemical formula, using subscripts if needed. <p>(Note: for ionic compounds reduce the subscripts whenever possible.)</p>

Complete the following table for binary ionic compounds.

Chemical Name	Chemical Formula	Chemical Name	Chemical Formula
sodium fluoride	NaF	beryllium fluoride	BeF ₂
lithium chloride	LiCl	sodium iodide	NaI
beryllium bromide	BeBr ₂	magnesium oxide	MgO
magnesium oxide	MgO	**Omitted**	H ₂ O
boron iodide	BI ₃	lithium sulfide	Li ₂ S
aluminum sulfide	Al ₂ S ₃	**Omitted**	BCl ₃
potassium oxide	K ₂ O	aluminum oxide	Al ₂ O ₃
calcium fluoride	CaF ₂	potassium sulfide	K ₂ S
barium nitride	Ba ₃ N ₂	silver chloride	AgCl
cesium sulfide	Cs ₂ S	calcium chloride	CaCl ₂
strontium oxide	SrO	**Omitted**	BN
francium bromide	FrBr	cesium iodide	CsI

Binary Ionic Compounds with Multivalent Cations:

Recall that multivalent elements have multiple oxidation states (charges). When writing the names for compounds containing multivalent cations we must indicate the oxidation state of the cation.

There are two methods for naming binary ionic compounds with multivalent cations.

1. **The classical system** (also referred to as the ous-ic method)
2. **The IUPAC system** (also referred to as the roman numeral method)

Naming Molecular Compounds Note Taking Guide

Answer

Society of Chemical Industry (Great Britain)



Naming Molecular Compounds Note Taking Guide Answer:

Focus on Physical Science California Edition Michael J. Padilla, 2007 *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

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Study Guide and Solutions Manual to Accompany The Essence of Organic Chemistry Jane M. Cram, Donald J. Cram, 1978 *The Macmillan Guide to Correspondence Study* Modoc Press, 1996

Job\$ in the Drug Indu\$try Richard J. Friary, 2000-06-05 This book is intended to help newly graduated chemists particularly organic chemists at all levels from bachelors to post doctorates find careers in the North American pharmaceutical industry It will serve as a practical detailed guidedbook for job seekers as well a reference work for faculty advisers research supervisors development officers employment agents and personnel managers in the industry The book gathers in a single volume the fundamentals of getting an industrial job as a medicinal or process chemist and covers all aspects of a chemist s job scientific financial and managerial within a pharmaceutical biotechnology company Other scientists looking for jobs as analytical or physical chemists and even biochemists and biologists will find the book useful The valuable appendix is a unique compendium of 365 commercial governmental or non profit institutions that comprise the North American pharmaceutical industry Learn How To Discover the 12 permanent big pharma jobs for B S chemists Use the 500 company index to locate potential employers Track pharma openings with 190 corporate and chemist specific job banks Add industry veterans to your employment network Find the 50 companies offering paid summer internships to students Include the one resume item that wins interviews for B S and M S chemists Express a knowledgeable preference for drug discovery or development Research over 360 drug companies through their Web sites Discover the 70 firms offering stock purchase plans or stock options^{3 4} and which two represent big pharma Find out your salary offer in time to negotiate your wages

Guide to Reference Material, 1963 *Guide to reference material* Arthur John Walford, 1963 Chemistry John S. Phillips, Cheryl Wistrom, 2000

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The Engineer ,1880 **English Mechanic and Mirror of Science** ,1873 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain),1896 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements *English Mechanic and Mirror of Science and Art* ,1884 **English Mechanic and World of Science** ,1885 **Boston Journal of Chemistry and Pharmacy** ,1890

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