

9

CHEMICAL NAMES AND FORMULAS

SECTION 9.1 NAMING IONS (pages 253–258)

This section explains the use of the periodic table to determine the charge of an ion. It also defines polyatomic ion and gives the names and formulas for the most common polyatomic ions.

► Monatomic Ions (pages 253–256)

1. What are monatomic ions?

Monatomic ions are ions consisting of only one atom.

2. How is the ionic charge of a Group 1A, 2A, or 3A ion determined?

The ionic charge is numerically equal to the group number.

3. How is the ionic charge of a Group 5A, 6A, or 7A ion determined?

The charge of an ion in Groups 5A, 6A, or 7A is determined by subtracting 8 from the group number.

4. Circle the letter of the type of element that often has more than one common ionic charge.

- a. alkali metal
- b. alkaline earth metal
- ☒ c. transition metal
- d. nonmetal

5. The Stock system of naming transition metal cations uses a Roman numeral in parentheses to indicate the numeric value of the ionic charge.

6. An older naming system uses the suffix *-ous* to name the cation with the lesser charge, and the suffix *-ic* to name the cation with the greater charge.

7. What is a major advantage of the Stock system over the old naming system?

The Stock system gives the actual charge of the ion.

9 Chemical Names And Formulas Answer Key

David Thurlo



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Effluent Monitoring Procedures National Training and Operational Technology Center (U.S.), William T. Engel, John H. Highby, David M. Wagner, 1978 **EPA-430/1**, 1978-04 Chemistry Carson-Dellosa Publishing, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards **General Chemistry** Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie's classic text offers a thorough revision and a quantum leap forward from the previous edition Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie's many previous works This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value **Chemistry** Greg Curran, 2011 Covers all the topics in a typical one year high school chemistry curriculum **Chemistry**, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards **Chemistry** John S. Phillips, Cheryl Wistrom, 2000 **Physical Science**, 2015-03-16 Physical Science for grades 5 to 12 is designed to aid in the review and practice of physical science topics Physical Science covers topics such as scientific measurement force and energy matter atoms and elements magnetism and electricity The book includes realistic diagrams and engaging activities to support practice in all areas of physical science The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series is aligned to current science standards Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry

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Techno-Economic Modeling for Chemical and Bioprocess Innovations Chris Burk,2025-11-04 Build spreadsheet based techno economic models to understand factors driving economic value Techno economic modeling examines how technical and financial parameters influence the economic value of a technology at the commercial scale Techno Economic Modeling for Chemical and Bioprocess Innovations is a practical guide to building spreadsheet based techno economic models and using them to make better decisions on the road to market Inside this book Explains the role of techno economic modeling in advancing new technologies toward commercialization Presents spreadsheet best practices that form the foundation for effective and efficient techno economic modeling Teaches how to combine process modeling equipment sizing and cost estimation in a cohesive and usable spreadsheet model Introduces techniques for analyzing model results to assess economic viability quantify uncertainty inform R D priorities and improve stakeholder communication Provides practical Excel and VBA examples with two complete sample models available online This book equips readers with the tools to combine science engineering and cost estimation It is an essential resource for chemical and bioprocess engineers including academics startup teams and advanced students working to bring innovations into the world **Chemistry: Matter & Change, Solving Problems - A Chemistry Handbook** McGraw Hill,2001-08

Glencoe Chemistry Solving Problems A Chemistry Handbook Matter and Change *Database Searcher* ,1987 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 *Drug Intelligence & Clinical Pharmacy* ,1977 **Database End-user** ,1987 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05

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