

Chemistry Unit 3

Study Guide

Chemical Nomenclature

Chemical formula

- a. a way of presenting information about the chemical proportions of atoms that constitute a particular chemical compound or molecule, using chemical element symbols, numbers, and sometimes also other symbols

Subscript

- a. A subscript or superscript is a character that is set slightly below or above the normal line of type, respectively. It is usually smaller than the rest of the text. Subscripts appear at or below the baseline, while superscripts are above.

Ion

- a. Ion, any atom or group of atoms that bears one or more positive or negative electrical charges.

Anion

- a. a negatively charged ion

Cation

- a. A positively charged ion

Polyatomic ion

- a. The prefix poly- means many, so a polyatomic ion is an ion that contains more than one atom.

Understand the use of Roman Numerals in ionic compounds

- a. Roman numerals are used in naming ionic compounds when the metal cation forms more than one ion.

List the diatomic molecules

- a. Hydrogen (H₂)
- b. Nitrogen (N₂)
- c. Oxygen (O₂)
- d. Fluorine (F₂)
- e. Chlorine (Cl₂)
- f. Iodine (I₂)
- g. Bromine (Br₂)

Be able to name and write chemical formulas for ionic, covalent, and acidic compounds

- Properly use prefixes
- Properly use Roman Numerals
- Properly use endings (-ide, -ate, -ite, -ous, -ic)

Determine the type of compound made from a pair of elements or polyatomic ions

Identify the ionic charge of transition metals in compounds

- a. Because most transition metals have two valence electrons, the charge of 2+ is a very common one for their ions.

Identify compounds as ionic, covalent, or acidic

- a. Compounds containing two elements (so called binary compounds) can either have ionic or covalent bonding. If a compound is made from a metal and a nonmetal, its bonding will be ionic. If a compound is made from two non-metals, its bonding will be covalent.

Chemistry Section 3 Study Guide

DP Hallahan



Chemistry Section 3 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

Study Guide to Accompany Basics for Chemistry Martha Mackin, 2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students

Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011

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

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