

The book was found

Periodic Table With Chemistry Formulas SparkCharts

* Periodic Table with Chemistry Formulas

sparkcharts

CHEMISTRY FORMULAS

ATOMIC AND MOLECULAR WEIGHTS

A. Atomic Weight: The relative mass of an element, based on the standard atomic weight of carbon-12 (^{12}C), is 12.011 amu.

B. Molecular Weight: The sum of the atomic weights of the atoms in a molecule.

C. Formula Weight: The sum of the atomic weights of the atoms in a chemical formula.

D. Molar Mass: The mass of one mole of a substance, expressed in grams per mole (g/mol).

PERCENTAGE COMPOSITION

A. Percent Composition: The percentage of each element in a compound, based on its molecular weight.

B. Empirical Formula: The simplest whole-number ratio of atoms in a compound.

C. Molecular Formula: The actual number of atoms of each element in a molecule.

GAS LAWS

A. Boyle's Law: The pressure of a gas is inversely proportional to its volume at constant temperature.

B. Charles's Law: The volume of a gas is directly proportional to its absolute temperature at constant pressure.

C. Gay-Lussac's Law: The pressure of a gas is directly proportional to its absolute temperature at constant volume.

D. Avogadro's Law: The volume of a gas is directly proportional to the number of moles of gas at constant pressure and temperature.

SOLUBILITY

A. Solubility: The maximum amount of a solute that can dissolve in a solvent at a given temperature.

B. Saturation: A solution in which no more solute can be dissolved at a given temperature.

C. Unsaturated: A solution in which more solute can be dissolved at a given temperature.

ACID-BASE REACTIONS

A. Acid-Base Reaction: A reaction in which an acid reacts with a base to form a salt and water.

B. Neutralization: A reaction in which an acid reacts with a base to form a neutral salt and water.

C. Titration: A process in which a known volume of a solution of known concentration is reacted with a solution of unknown concentration to determine its concentration.

EQUILIBRIUM

A. Equilibrium: A state in which the concentrations of reactants and products are constant over time.

B. Le Chatelier's Principle: If a system at equilibrium is subjected to a change in concentration, temperature, or pressure, the system will shift to counteract the change.

C. Equilibrium Constant: A numerical value that expresses the relative concentrations of reactants and products at equilibrium.

THERMODYNAMICS

A. Enthalpy: A measure of the total energy of a system, including internal energy and work.

B. Entropy: A measure of the disorder or randomness of a system.

C. Gibbs Free Energy: A measure of the maximum work that can be done by a system at constant temperature and pressure.

ELECTROCHEMISTRY

A. Electrochemical Cell: A device that converts chemical energy into electrical energy.

B. Galvanic Cell: A type of electrochemical cell in which the oxidation and reduction reactions occur at separate electrodes.

C. Electrolysis: A process in which electrical energy is used to drive a non-spontaneous chemical reaction.

RADIOACTIVITY

A. Radioactive Decay: The process in which an unstable nucleus loses energy by emitting ionizing radiation.

B. Half-Life: The time it takes for half of a sample of a radioactive substance to decay.

C. Alpha Decay: A type of radioactive decay in which an alpha particle (two protons and two neutrons) is emitted.

NUCLEAR REACTIONS

A. Nuclear Reaction: A reaction in which the nucleus of an atom is changed, resulting in the formation of a new element.

B. Fission: A nuclear reaction in which a heavy nucleus splits into two or more lighter nuclei, releasing energy.

C. Fusion: A nuclear reaction in which two or more light nuclei combine to form a heavier nucleus, releasing energy.

CONTINUED ON OTHER SIDE



Synopsis

SparkCharts®: The information you need—concisely, conveniently, and accurately. Created by Harvard students for students everywhere, these study companions and reference tools cover a wide range of college and graduate school subjects, from Business and Computer Programming to Medicine, Law, and Languages. They'll give you what it takes to find success in school and beyond. Outlines and summaries cover key points, while diagrams and tables make difficult concepts easier to grasp. This two-page chart is a perfect reference for homework and problem sets. On side one, the chart lists the most important chemical formulas and provides quick refreshers on significant figures and balancing equations. Side two includes a beautiful periodic table that gives the following information for each element: Name Atomic number Atomic symbol Atomic mass Oxidation states (most stable state in bold) Electronegativity Electron affinity First ionization potential Atomic radius Electron shell configuration

Book Information

Series: SparkCharts

Wall Chart: 2 pages

Publisher: SparkCharts; Lam Crds edition (February 4, 2014)

Language: English

ISBN-10: 1411470680

ISBN-13: 978-1411470682

Product Dimensions: 0.2 x 8.5 x 10.8 inches

Shipping Weight: 1.6 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (3 customer reviews)

Best Sellers Rank: #272,750 in Books (See Top 100 in Books) #47 in Books > Science & Math > Chemistry > Inorganic #726 in Books > Textbooks > Science & Mathematics > Chemistry #2084 in Books > Textbooks > Test Prep & Study Guides

Customer Reviews

Very useful for my chem class at the university of Minnesota

A nice-looking periodic table for quick reference! What more could you want?

Item arrived promptly and as described! Would use again!

[Download to continue reading...](#)

Periodic Table with Chemistry Formulas SparkCharts Wonderful Life with the Elements: The Periodic Table Personified The Periodic Table of Chemical Elements The Periodic Table: A Visual Guide to the Elements Elements, The: An Illustrated History Of The Periodic Table Microsoft Excel 2013 Functions & Formulas Quick Reference Card (4-page Cheat Sheet focusing on examples and context for intermediate-to-advanced functions and formulas- Laminated Guide) Microsoft Excel 2010 Functions & Formulas Quick Reference Guide (4-page Cheat Sheet focusing on examples and context for intermediate-to-advanced functions and formulas- Laminated Guide) Formulas and Calculations for Drilling, Production, and Workover, Fourth Edition: All the Formulas You Need to Solve Drilling and Production Problems Formulas and Calculations for Drilling, Production, and Workover, Third Edition: All the Formulas You Need to Solve Drilling and Production Problems American Sign Language SparkCharts Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Ace General Chemistry I: The EASY Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) Periodic Fasting: Repair your DNA, Grow Younger, and Learn to Appreciate your Food Migraine and Periodic Headache: A Modern Approach to Successful Treatment Periodic Tales Table Layout in CSS: CSS Table Rendering in Detail Top Secret Recipes Step-by-Step: Secret Formulas with Photos for Duplicating Your Favorite Famous Foods at Home BACKUP & RECOVERY SPECIALIST, DATA BACKUP & DISASTER RECOVERY ENGINEER: FORMULAS, PRINCIPLES & REFERENCES: JUST IN TIME REVISION GUIDE FOR SUCCESS AT ANY BACKUP ADMINISTRATOR JOB INTERVIEW EXCEL: Strategic Use of the Calc Spreadsheet in Business Environment. Data Analysis and Business Modeling (Functions and Formulas, Macros, MS Excel 2016, Shortcuts, Microsoft Office)

[Dmca](#)