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Periodic Table With Chemistry Formulas SparkCharts

* Periodic Table with Chemistry Formulas

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CHEMISTRY FORMULAS

ATOMIC AND SUBSTANCE DATA

A. Atomic Number: The number of protons in the nucleus of an atom, also the number of electrons in a neutral atom.

B. Mass Number: The number of protons and neutrons in the nucleus of an atom.

C. Valence: The number of electrons in the outermost shell of an atom.

D. Atomic Weight: The average mass of atoms of an element, measured on a scale where the mass of ^{12}C is 12.

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

THERMODYNAMICS

A. Enthalpy of Formation: The heat change when one mole of a compound is formed from its elements in their standard states.

B. Enthalpy of Combustion: The heat change when one mole of a substance is completely burned in oxygen.

C. Heat of Fusion: The heat change when one mole of a solid melts at its melting point.

D. Heat of Vaporization: The heat change when one mole of a liquid vaporizes at its boiling point.

E. Heat of Sublimation: The heat change when one mole of a solid sublimates at its sublimation point.

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.

E. Ideal Gas Law: $PV = nRT$, where P is pressure, V is volume, n is the number of moles, R is the gas constant, and T is absolute temperature.

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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

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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!

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