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A Ready-reference Book of Chemical and Physical Data CRC Press

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CRC Handbook of Basic Tables for Chemical Analysis

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Proudly serving the scientific community for over a century, this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions. A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition. This series is continued with this edition, which is focused on Lord Kelvin, Michael Faraday, John Dalton, and Robert Boyle. This series, which provides biographical information, a list of major achievements, and notable quotations attributed to each of the renowned chemists and physicists, will be continued in succeeding editions. Each edition will feature two chemists and two physicists. The 96th edition now includes a complimentary eBook with purchase of the print version. This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach. New Tables: Section 1: Basic Constants, Units, and Conversion Factors Descriptive Terms for Solubility Section 8: Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine-Bromine Combination Isotope Intensities Section 16: Health and Safety Information Materials Compatible with and Resistant to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6: Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7: Biochemistry Structure and Functions of Some Common Drugs Section 9: Molecular

Structure and Spectroscopy Bond Dissociation Energies Section 11: Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14: Geophysics, Astronomy, and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide, 1958-2014 Global Temperature Trend, 1880-2014 Section 15: Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16: Health and Safety Information Threshold Limits for Airborne Contaminants **CRC Handbook of Chemistry and Physics, 83rd Edition** CRC Press
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 The Handbook of Chemistry and Physics, Student Edition is specially stamped and priced, making this international, best-selling reference affordable to students at all levels, from high school through graduate school. The Handbook compiles a massive amount of well-organized and easily accessible data in a single volume. Revisions to the Handbook have kept up with semiconductors and high-temperature superconductors; addressed environmental concerns by providing data on pollutants, contaminants, global warming, and ground water contamination; and updated pertinent data to stay current with IUPAC standards. The Handbook of Chemistry and Physics, Student Edition is your primary reference source for all types of scientific data!

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 Get a FREE first edition facsimile with each copy of the 85th! Researchers around the world depend upon having access to authoritative, up-to-date data. And for more than 90 years, they

have relied on the CRC Handbook of Chemistry and Physics for that data. This year is no exception. New tables, extensive updates, and added sections mean the Handbook has again set a new standard for reliability, utility, and thoroughness. This edition features a Foreword by world renowned neurologist and author Oliver Sacks, a free facsimile of the 1913 first edition of the Handbook, and thumb tabs that make it easier to locate particular data. New tables in this edition include: Index of Refraction of Inorganic Crystals Upper and Lower Azeotropic Data for Binary Mixtures Critical Solution Temperatures of Polymer Solutions Density of Solvents as a Function of Temperature By popular request, several tables omitted from recent editions are back, including Coefficients of Friction and Miscibility of Organic Solvents. Ten other sections have been substantially revised, with some, such as the Table of the Isotopes and Thermal Conductivity of Liquids, significantly expanded. The Fundamental Physical Constants section has been updated with the latest CODATA/NIST values, and the Mathematical Tables appendix now features several new sections covering topics that include orthogonal polynomials Clebsch-Gordan coefficients, and statistics.

CRC Handbook of Chemistry and Physics (Special Student Edition) CRC Press

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Handbook of Chemistry and Physics. CRC Handbook of Chemistry and Physics CRC Press

Continues to be the most accurate, reliable and current resource available on data needed by chemists, physicists and engineers. It provides wide coverage of data on properties of inorganic and organic compounds. Some of the most heavily used tables were recently updated and expanded including: Physical Properties of Inorganic Compounds; Enthalpy of Fusion; Bond Dissociation Energies; Table of the Isotopes; Inorganic Ion and Ligand Nomenclature; Chemical Carcinogens; and Global Temperature Trends for the past 150 years.

A Ready-reference Book of Chemical and Physical Data CRC

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Mirroring the growth and direction of science for nearly a century, the CRC Handbook of Chemistry and Physics, now in its 90th edition, adds several new tables that will be among the most accessed in the world. These include Structure and Functions of Common Drugs, Solubility Parameters of Polymers, Major World Earthquakes, and Equilibrium Constants of Selected Enzyme Reactions. It adds major updates to several more, including Threshold Limits for Airborne Contaminants, Mass Spectral Peaks of Common Organic Solvents, and Properties of the Solar System. It also adds a table of the Handbook's greatest fans: Nobel Laureates in Chemistry and Physics.

[A Ready-reference Pocket Book of Chemical and Physical Data](#) CRC Press

In a world with access to unlimited amounts of data, how can users who need to make critical scientific and technical decisions find high quality, reliable data? Today, more than ever, the CRC Handbook of Chemistry and Physics remains a hallmark of quality. For over 100 years, the Handbook has provided property data on chemical compounds and all physical particles that have been reported in the literature, carefully reviewed by subject experts. Every year older collections are updated with the latest values and new areas will be added as science progresses. All data are reviewed and evaluated by subject matter experts. Chemical names and property units are standardized, and structures are provided for most substances. Over 380 property tables included. Contains important information on data-related subjects such as chemical and laboratory safety, and nomenclature. *CRC Handbook of Chemistry and Physics, 89th Edition* CRC-Press Proudly serving the scientific community for over a century, this 95th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 95th Edition of the Handbook includes 22 new tables and major updates and expansions. A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition. This series is continued with this edition, which is focused on Galileo Galilei, James Clerk Maxwell, Marie Skłodowska Curie, and Linus Carl Pauling. This series, which provides biographical information, a list of major achievements, and notable quotations attributed to each of the renowned chemists and physicists, will be continued in succeeding editions. Each edition will feature two chemists and two physicists. Available in traditional print format, as an eBook, and online, this reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach. New tables: Section 8: Analytical Chemistry Figures of Merit Common Symbols Used in Gas and Liquid Chromatographic Schematic Diagrams Varieties of Hyphenated Gas Chromatography with Mass Spectrometry Section 15: Practical Laboratory Data Standard Fittings for Compressed Gas Cylinders Plug and Outlet Configurations for Common Laboratory Devices Section 16: Health and Safety Information Abbreviations Used in the Assessment and Presentation of Laboratory Hazards Incompatible Chemicals Explosion (Shock) Hazards Water-Reactive Chemicals Testing Requirements for Peroxidizable Compounds Tests for the Presence of Peroxides Pyrophoric Compounds - Compounds That Are Reactive with Air Flammability Hazards of Common Solvents Selection of Laboratory Gloves Selection of Respirator Cartridges and Filters Selection of Protective Laboratory Garments Protective Clothing Levels Chemical Fume Hoods and Biological Safety Cabinets Gas Cylinder Safety and Stamped Markings Laser Hazards in the Laboratory General Characteristics of Ionizing Radiation for the Purpose of Practical Application of Radiation Protection Radiation Safety Units Significantly updated and expanded tables: Section 1: Basic Constants, Units, and Conversion Factors Update of Standard Atomic Weights (2013) Update of Atomic Masses and Abundances Section 8: Analytical Chemistry Expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9: Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 12: Properties of Solids Major update and Expansion of Electron Stopping Powers Section 14: Geophysics, Astronomy, and Acoustics Major Update of Interstellar Molecules Update of Atmospheric Concentration of Carbon Dioxide, 1958-2013 Update of Global Temperature Trend, 1880-2013 Section 15: Practical Laboratory Data Major update of Reference Points on the ITS-90 Temperature Scale Update of Laboratory Solvents and Other Liquid Reagents Section 16: Health

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and Utilization* Materials of Construction

A Ready-reference Book of Chemical and Physical Data CRC Press From science fair entrants to Nobel laureates, researchers around the world depend upon having access to authoritative, up-to-date data. And for nearly 90 years, they have relied on the CRC Handbook of Chemistry and Physics for that data. This year is no exception. New tables, extensive updates, and added sections mean the Handbook has once again set a new standard for reliability, utility, and thoroughness. Outstanding features of the 83rd edition: Standard Thermodynamic Properties of Chemical Substances-Thoroughly revised with new substances and updated values Ionization constants for buffers used in biological research-Definitive data that allow the correct interpretation of experiments Directory of Physical and Chemical Data Sources-A selective listing of the most reliable sources of physical and chemical properties data, including data journals, data centers, major handbooks, and Internet sites Atomic weights-Updated with the latest changes adopted by IUPAC in 2001 Other refinements and new topics include: Atomic and Molecular Polarizabilities Updated Characteristic Bond Lengths in Free Molecules New! Correction of Barometer Readings to 0°C Temperature New! Electron Affinities Updated Eutectic Temperatures of Low-Melting Alloys New! Nuclear Spins and Moments for NMR Spectroscopy Updated Permittivity of Water as a Function of Temperature and Pressure New! Sensitivity of the Human Eye to Light of Different Wavelengths New! Thermodynamic Functions and Relations New! Vapor Pressure of Mercury New! Viscosity and Density of Concentrated Hydroxide Solutions New! Viscosity of Liquid Metals New!

CRC Handbook of Chemistry and Physics CRC Press

Mirroring the growth and direction of science for a century, the CRC Handbook of Chemistry and Physics, now in its 92nd edition, continues to be the most accessed and respected scientific reference in the world, used by students and Nobel Laureates. Available in its traditional print format, the Handbook is also available as an innovative interactive product on DVD and online. Among a wealth of enhancements, this edition analyzes, updates, and validates molecular formulas and weights, boiling and melting points, densities, and refractive indexes in the Physical Constants of Organic Compounds Table through comparisons with critically evaluated data from the NIST Thermodynamics Research Center. New Tables: Analytical Chemistry Abbreviations Used In Analytical Chemistry Basic Instrumental Techniques of Analytical Chemistry Correlation Table for Ultraviolet Active Functionalities Detection of Outliers in Measurements Polymer Properties Second Virial Coefficients of Polymer Solutions Updated Tables: Properties of the Elements and Inorganic Compounds Update of the Melting, Boiling, Triple, and Critical Points of the Elements Fluid Properties Major update and expansion of Viscosity of Gases table Major update and expansion of Thermal Conductivity of Gases table Major update of Properties of Cryogenic Fluids Major update of Recommended Data for Vapor-Pressure Calibration Expansion of table on the Viscosity of Liquid Metals Update of Permittivity (Dielectric Constant) of Gases table Added new refrigerant R-1234yf to Thermophysical Properties of Selected Fluids at Saturation table Molecular Structure and Spectroscopy Major update of Atomic Radii of the Elements Update of Bond Dissociation Energies Update of Characteristic Bond Lengths in Free Molecules Atomic, Molecular, and Optical Physics Update of Electron Affinities Update of Atomic and Molecular Polarizabilities Nuclear and Particle Physics Major update of the Table of the Isotopes Properties of Solids Major update and expansion of the Electron Inelastic Mean Free Paths table Update of table on Semiconducting Properties of Selected Materials Geophysics, Astronomy, and Acoustics Update of the Global Temperature Trend table to include 2010 data Health and Safety Information Major update of Threshold Limits for Airborne Contaminants The Handbook is also available as an eBook.

[1998 Freshman Achievement Award](#) CRC Press

This student edition features over 50 new or completely revised tables, most of which are in the areas of fluid properties and properties of solids. The book also features extensive references to other compilations and databases that contain additional information.

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