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MALONE WASHINGTON

CRC-Press
 Provides chemical and physical data
 CRC Handbook of Chemistry and Physics McGraw Hill Professional
 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

1998 Freshman Achievement Award CRC Press

For more than 90 years, researchers around the world have relied on the CRC Handbook of Chemistry and Physics for authoritative, up-to-date data. This year will be no exception. New tables, extensive updates, and added sections mean the Handbook again sets a new standard for reliability, utility, and thoroughness. This Edition includes seven new tables: Vapor Pressure of the Metallic Elements Electrical Conductivity of Aqueous Solutions Proton Affinities Electron Inelastic Mean Free Paths Selected Properties of Semiconductor Solid Solutions Vapor Pressures (Solvent Activities) for Binary Polymer Solutions Density of Sulfuric Acid Substantial revisions and extensive updates of more than 20 tables including: NIST Atomic Transition

Probability Tables Summary Tables of Particle Properties Threshold Limits for Airborne Contaminants Bond Dissociation Energy Standard Transformed Gibbs Energy of Formation for Important Biochemical Species Sources of Physical and Chemical Data appendix And more! The 86th Edition also marks a fresh look for the Handbook. A larger format and new layout makes it easier to read and a new typeface makes the tables and diagrams crystal clear.

Perry's Chemical Engineers' Handbook, 9th Edition CRC Press

From forensics and security to pharmaceuticals and environmental applications, spectroscopic detection is one of the most cost-effective methods for identifying chemical compounds in a wide range of disciplines. For spectroscopic information, correlation charts are far more easily used than tables, especially for scientists and students whose own areas of specialization may lie elsewhere. The CRC Handbook of Fundamental Spectroscopic Correlation Charts provides a collection of spectroscopic information and unique correlation charts for use in the interpretation of spectroscopic measurements. The handbook presents useful analysis and assignment of spectra and structural elucidation of organic and organometallic molecules. The correlation charts are compiled from an extensive search of spectroscopic literature and contain current, detailed information that includes new results for many compounds. The handbook includes graphical data charts for nuclear magnetic resonance spectroscopy of the most useful nuclei, as well as infrared and ultraviolet spectrophotometry. Because mass spectrometry data is not best represented graphically, the data are presented in tabular form, where mass spectrometry can be used for analyses and structural determinations in tandem with other techniques. In addition to presenting absorption bands and intensities for a variety of important functional groups and chemical families, the book also discusses instrument calibration, diagnostics, common solvents, fragmentation patterns, several practical conversion tables, and laboratory safety. Not intended to replace reference works that provide exhaustive spectral charts on specific compound classes, this book fills the need for fundamental charts that are needed on a general, day-to-day basis. The CRC Handbook of Fundamental Spectroscopic Correlation Charts is an ideal laboratory companion for students and professionals in academic, industrial, and government labs.

CRC Handbook of Chemistry and Physics Online CRC Press

The CRC Handbook of Thermophysical and Thermochemical Data is an interactive software and handbook package that provides an invaluable source of reliable data embracing a wide range of properties of chemical substances, mixtures, and reacting systems. Use the handbook and software together to quickly, and easily generate property values at any desired temperature, pressure, or mixture composition.

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

Provides chemical and physical data

CRC Handbook of Chemistry and Physics CRC Press

Researchers in chemistry, chemical engineering, pharmaceutical science, forensics, and environmental science make routine use of chemical analysis, but the information these researchers need is often scattered in different sources and difficult to access. The CRC Handbook of Basic Tables for Chemical Analysis: Data-Driven Methods and Interpretation, Fourth Edition is a one-stop reference that presents updated data in a handy format specifically designed for use when reaching a decision point in designing an analysis or interpreting results. This new edition offers expanded coverage of calibration and uncertainty, and continues to include the critical information scientists rely on to perform accurate analysis. Enhancements to the Fourth Edition: Compiles a huge array of useful and important data into a single, convenient source Explanatory text provides context for data and guidelines on applications Coalesces information from several different fields Provides information on the most useful "wet" chemistry methods as well as instrumental techniques, with an expanded discussion of laboratory safety Contains information of historical importance necessary to interpret the literature and understand current methodology. Unmatched in its coverage of the range of information scientists need in the lab, this resource will be referred to again and again by practitioners who need quick, easy access to the data that forms the basis for experimentation and analysis.

Hdbk of Chemistry & Physics Special Student Edition CRC Press

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 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!

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Crc Handbook of Chemistry and Physics 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.

CRC Handbook of Basic Tables for Chemical Analysis 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.

CRC Handbook of Chemistry and Physics CRC Press

Up-to-Date Coverage of All Chemical Engineering Topics—from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological processes, biochemical and membrane separation, process and chemical plant safety, and much more. This fully updated edition covers: Unit Conversion Factors and Symbols • Physical and Chemical Data including Prediction and Correlation of Physical Properties • Mathematics including Differential and Integral Calculus, Statistics, Optimization • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics • Reaction Kinetics • Process Control and Instrumentation • Process Economics • Transport and Storage of Fluids • Heat Transfer Operations and Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Chemical Reactors • Bio-based Reactions and Processing • Waste Management including Air, Wastewater and Solid Waste Management* Process Safety including Inherently Safer Design • Energy Resources, Conversion and Utilization* Materials of Construction

A Ready-reference Book of Chemical and Physical Data 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 and Safety Information Update of Flammability of Chemical Substances Update of Threshold Limits for Airborne Contaminants to 2013 values Appendix B: Update of Sources of Physical and Chemical Data
Handbook Of Chemistry And Physics CRC Handbook of Chemistry and Physics, 96th Edition
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.

[CRC Handbook of Chemistry and Physics, 86th Edition](#) CRC Press

The CRC Handbook of Chemistry and Physics, 89th Edition continues to offer the most authoritative, up-to-date data to scientists around the world. This edition contain revisions, updates, and expansions as well as ten new tables of data on molecular structure, biochemistry, environmental issues, material properties, and more. Major revisions include newly approved fundamental physical constants, properties of fatty acids, bond dissociation energies, and molecular structures of free molecules. New tables include Energy Content of Fuels, Global Warming Potential of Greenhouse Gases, Weather-Related Scales, Index of Refraction of Gases, Molecular Internal Rotation, Atomic Radii of Elements, Composition and Properties of Various Natural Oils and Fats, Melting Curve of Mercury, Properties of Gas Clathrate Hydrates, Enthalpy of Hydration of Gases, and Properties of Graphite and Nanotubes.

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

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.

CRC Handbook of Chemistry and Physics, 82nd Edition CRC Press

The latest edition of the world's most popular scientific reference features new tables and reference sections on everything from aqueous solubility of

organic compounds to flash point data of common substances. Along with the very latest facts and figures, the CRC Handbook of Chemistry and Physics also contains all of the most frequently used data in science, including the periodic table of the elements, basic constants and units, and geophysical data.

CRC Handbook of Chemistry and Physics CRC Press

Celebrating the 100th anniversary of the CRC Handbook of Chemistry and Physics, this 94th edition is an update of a classic reference, mirroring the growth and direction of science for a century. The Handbook continues to be the most accessed and respected scientific reference in the science, technical, and medical communities. An authoritative resource consisting of tables of data, its usefulness spans every discipline. Originally a 116-page pocket-sized book, known as the Rubber Handbook, the CRC Handbook of Chemistry and Physics comprises 2,600 pages of critically evaluated data. An essential resource for scientists around the world, the Handbook is now available in print, eBook, and online formats. New tables: Section 7: Biochemistry Properties of Fatty Acid Methyl and Ethyl Esters Related to Biofuels Section 8: Analytical Chemistry Gas Chromatographic Retention Indices Detectors for Liquid Chromatography Organic Analytical Reagents for the Determination of Inorganic Ions Section 12: Properties of Solids Properties of Selected Materials at Cryogenic Temperatures Significantly updated and expanded tables: Section 3: Physical Constants of Organic Compounds Expansion of Diamagnetic Susceptibility of Selected Organic Compounds Section 5: Thermochemistry, Electrochemistry, and Solution Chemistry Update of Electrochemical Series Section 6: Fluid Properties Expansion of Thermophysical Properties of Selected Fluids at Saturation Major expansion and update of Viscosity of Liquid Metals Section 7: Biochemistry Update of Properties of Fatty Acids and Their Methyl Esters Section 8: Analytical Chemistry Major expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9: Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 11: Nuclear and Particle Physics Update of Summary Tables of Particle Properties Section 14: Geophysics, Astronomy, and Acoustics Update of Atmospheric Concentration of Carbon Dioxide, 1958-2012 Update of Global Temperature Trend, 1880-2012 Major update of Speed of Sound in Various Media Section 15: Practical Laboratory Data Update of Laboratory Solvents and Other Liquid Reagents Major update of Density of Solvents as a Function of Temperature Major update of Dependence of Boiling Point on Pressure Section 16: Health and Safety Information Major update of Threshold Limits for Airborne Contaminants Appendix A: Major update of Mathematical Tables Appendix B: Update of Sources of Physical and Chemical Data
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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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