

Crc Handbook Of Data On Organic Compounds

CRC Handbook of Fundamental Spectroscopic Correlation Charts
CRC Handbook of Chromatography
CRC Handbook of Tables for Applied Engineering Science
CRC Handbook of Chemistry and Physics
CRC Handbook of Chemistry and Physics, 84th Edition
CRC Handbook of Basic Tables for Chemical Analysis
CRC Handbook of Engineering Tables
CRC Handbook of Chemistry and Physics
CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions
CRC Handbook of Symbiotic Cyanobacteria
CRC Handbook of Thermoelectrics
CRC Handbook of Basic Tables for Chemical Analysis
CRC Handbook of Data on Organic Compounds: PC
CRC Handbook of Chemistry and Physics
CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition
Handbook of Data Structures and Applications, Second Edition
CRC Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions
CRC Handbook of Chemistry and Physics, 96th Edition
CRC Handbook of Biochemistry
Handbook of Big Data
CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions
CRC Handbook of Enthalpy Data of Polymer-Solvent Systems
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Organic Compounds
CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set
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CRC Handbook of Applied Thermodynamics
CRC Handbook of Chemistry and Physics, 93rd Edition
CRC Handbook of Chemistry and Physics, 94th Edition
CRC Handbook of Pesticides
CRC Handbook of Thermodynamic Data of Copolymer Solutions
Handbook of Chemistry and Physics
CRC Handbook of Spectrophotometric Data of Drugs

CRC Handbook of Fundamental Spectroscopic Correlation Charts

This practical handbook features an overview of the importance of physical properties and thermodynamics; and the use of thermo-dynamics to predict the extent of reaction in proposed new chemical combinations. The use of special types of data and pre-diction methods to develop flowsheets for probing projects; and sources of critically evaluated data, dividing the published works into three categories depending on quality are given. Methods of doing one's own critical evaluation of literature, a list of known North American contract experimentalists with the types of data mea-sured by each, methods for measuring equilibrium data, and ther-modynamic concepts to carry out process opti-mization are also featured.

CRC Handbook of Chromatography

Alphabetical listing of organic compounds. Beilstein and CAS numbers are given for each compound. Spectra references and structural formulas are listed in separate sections. Miscellaneous indexes.

CRC Handbook of Tables for Applied Engineering Science

V.1 - Gas chromatography; Liquid chromatography; Paper chromatography; Thin-layer chromatography; Gas chromatography; Paper chromatography; Thin-layer chromatography; Introduction; Gas chromatography; Liquid column chromatography; Paper chromatography; Thin-layer chromatography; Detection reagents for paper and thin-layer chromatography; Selected methods of sample preparation; Products and sources of chromatographic materials; International chromatography book directory; v.2 - gas chromatography; Liquid chromatography; Paper chromatography; Thin-layer chromatography; Gas chromatography; Liquid chromatography; Paper chromatography; Thin-layer chromatography; Introduction; Gas chromatography; Liquid column chromatography; Paper chromatography; Thin-layer chromatography; Detection reagents for paper and thin-layer chromatography; Selected methods of sample preparation; Products and sources of chromatographic materials; International chromatography book directory.

CRC Handbook of Chemistry and Physics

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

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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, 84th Edition

A large amount of experimental data has been published since the debut of the original CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions. Incorporating new and updated material, the CRC Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions provides a comprehensive collection of thermodynamic data of polymer solutions. It helps readers quickly retrieve necessary information from the literature, and assists researchers in planning new measurements where data are missing. A valuable resource for the modern chemistry field, the Handbook clearly details how measurements were conducted and methodically explains the nomenclature. It presents data essential for the production and use of polymers as well as for understanding the physical behavior and intermolecular interactions in polymer solutions.

CRC Handbook of Basic Tables for

Chemical Analysis

Handbook of Big Data provides a state-of-the-art overview of the analysis of large-scale datasets. Featuring contributions from well-known experts in statistics and computer science, this handbook presents a carefully curated collection of techniques from both industry and academia. Thus, the text instills a working understanding of key statistical and computing ideas that can be readily applied in research and practice. Offering balanced coverage of methodology, theory, and applications, this handbook: Describes modern, scalable approaches for analyzing increasingly large datasets Defines the underlying concepts of the available analytical tools and techniques Details intercommunity advances in computational statistics and machine learning Handbook of Big Data also identifies areas in need of further development, encouraging greater communication and collaboration between researchers in big data sub-specialties such as genomics, computational biology, and finance.

CRC Handbook of Engineering Tables

CRC Handbook of Chemistry and Physics

Thermoelectrics is the science and technology associated with thermoelectric converters, that is, the generation of electrical power by the Seebeck effect and refrigeration by the Peltier effect. Thermoelectric generators are being used in increasing numbers to

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provide electrical power in medical, military, and deep space applications where combinations of their desirable properties outweigh their relatively high cost and low generating efficiency. In recent years there also has been an increase in the requirement for thermoelectric coolers (Peltier devices) for use in infrared detectors and in optical communications. Information on thermoelectrics is not readily available as it is widely scattered throughout the literature. The Handbook centralizes this information in a convenient format under a single cover. Sixty of the world's foremost authorities on thermoelectrics have contributed to this Handbook. It is comprised of fifty-five chapters, a number of which contain previously unpublished material. The contents are arranged in eight sections: general principles and theoretical considerations, material preparation, measurement of thermoelectric properties, thermoelectric materials, thermoelectric generation, generator applications, thermoelectric refrigeration, and applications of thermoelectric cooling. The CRC Handbook of Thermoelectrics has a broad-based scope. It will interest researchers, technologists, and manufacturers, as well as students and the well-informed, non-specialist reader.

CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions

This new compilation focuses on 386 of the most commonly used pesticides recently registered by the EPA. The structural and molecular formulas are listed for each chemical along with its Chemical Abstracts

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Registry Number (CAS RN) and, when available, its number in the Merck Index (Eleventh Edition). This invaluable reference provides the various English and foreign chemical names, trivial names, synonyms, and trade names for each pesticide. A handy chemical name index also presents this information in a readily accessible format. The pesticide's physical properties are summarized and data pertaining to the compound's acute toxicity in various species are given. This data has been drawn from the Registry of Toxic Effects of Chemical Substances. Finally, for each of the pesticide chemicals there is a reference to the appropriate Section of the Code of Federal Regulations, 40 CFR 180, where the various crop tolerances may be located.

CRC Handbook of Symbiotic Cyanobacteria

Proudly serving the scientific community for over a century, this 97th 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 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions. It is now also available as an eBook. This

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reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach.

CRC Handbook of Thermoelectrics

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

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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 Basic Tables for Chemical Analysis

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

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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 Data on Organic Compounds: P

The CRC Handbook of Data on Organic Compounds, Third Edition (HODOC III) is The master reference of more than 27,000 organic compounds, thoroughly indexed to locate specific compounds. This new, seven-volume treatise offers your patrons an

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unprecedented range of current, accurate, and clearly presented data-presenting the most frequently used chemical, physical, and spectral data from the most reliable sources. Researchers in any scientific field, engineers, technicians, chemists, and librarians will turn to HODOC III as an effective, complete source of data.

CRC Handbook of Chemistry and Physics

This publication presents cleaning and etching solutions, their applications, and results on inorganic materials. It is a comprehensive collection of etching and cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing waxes, plastics, and lacquers for example. It is useful to individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines,

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work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.

CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition

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

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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.

Handbook of Data Structures and Applications, Second Edition

CRC Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions

Mirroring the growth and direction of science for a century, the Handbook, now in its 93rd edition, continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting tables of data, its usefulness spans every discipline. This edition includes 17 new tables in the Analytical Chemistry section, a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables. The book puts physical formulas and mathematical tables used in labs every day within easy reach. The 93rd edition is the first edition to be available as an eBook.

CRC Handbook of Chemistry and Physics, 96th Edition

Researchers around the world depend upon having

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access to authoritative, up-to-date data. And for 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 completely new table of Physical Constants of Organic Compounds with data on almost 11,000 compounds, new structure diagrams, and a new, more convenient format. Reflecting CRC's dedication to ensuring the Handbook remains current, this edition also incorporates new entries and data from the U.S. Government's just-released "Tenth Report on Carcinogens."

CRC Handbook of Biochemistry

The CRC Handbook of Solubility Parameters and Other Cohesion Parameters, Second Edition, which includes 17 new sections and 40 new data tables, incorporates information from a vast amount of material published over the last ten years. The volume is based on a bibliography of 2,900 reports, including 1,200 new citations. The detailed, careful construction of the handbook develops the concept of solubility parameters from empirical, thermodynamic, and molecular points of view and demonstrates their application to liquid, gas, solid, and polymer systems.

Handbook of Big Data

The CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions provides a new and

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complete collection of the practical thermodynamic data required by researchers and engineers for a variety of applications including: basic and applied chemistry; chemical engineering; thermodynamic research; computational modeling; membrane science and technolo

CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions

This handbook provides the only complete collection of high-pressure thermodynamic data pertaining to polymer solutions at elevated pressures to date of all critical data for understanding the physical nature of these mixtures and applicable to a number of industrial and laboratory processes in polymer science, physical chemistry, chemical engineering, and biotechnology. In response to the increasing commercial interest due to the physico-chemical properties of these solutions, the CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures compiles information on experimental data from hundreds of primary journal articles, dissertations, and other papers into a single source entirely devoted to polymer solutions. The book contains data on vapor-liquid equilibria and gas solubilities, liquid-liquid equilibria, high-pressure fluid phase equilibria for polymer systems in supercritical fluids, enthalpic and volumetric data, and second virial coefficients, all at elevated pressures. An excellent companion to the author's previous publications, the CRC Handbook of Thermodynamic Data of Copolymer Solutions and the CRC Handbook

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of Thermodynamic Data of Aqueous Polymer Solutions, this handbook contains reliable, easy-to-use entries, references, tables, examples, and appendices that provide students, professors, and researchers with a well-organized, quick route to the data they need. The CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures is a staple resource for all university libraries as well as private laboratories, particularly for researchers, academics, and engineers who handle polymer systems in supercritical fluids, material science applications such as computerized predictive packages, and chemical and biochemical processes, such as synthesis and characterization, fractionation, separation, purification, and finishing of polymers and related materials. _ CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions CRC Handbook of Thermodynamic Data of Copolymer Solutions

CRC Handbook of Enthalpy Data of Polymer-Solvent Systems

See what's new in the Second Edition: · Number of species included is increased from 6300 to over 8700, about 85% of the world's birds · Better data for many of the species included in the first edition — an exhaustive compilation of new data published from 1992 through 2007 · More comprehensive coverage of Latin America, Japan, Taiwan, Southeast Asia, and more coverage of research published in non-English language journals In 1992 the CRC Handbook of Avian

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Body Masses broke new ground by providing a compilation of body masses for 6300 species, about two-thirds of the world's species. The handbook instantly became the gold standard, cited in hundreds of scientific studies and a prominent fixture on the shelves of many ornithologists. Keeping the format that made the first edition so popular, the second edition features dramatic changes both in species coverage and the data quality. The new edition compiles the results of new samples that have been published for many of the birds included in the first edition, and data found for about 2400 new species, increasing the coverage to over 8700 species, about 85% of the world's birds. The order of species and families has been revised in the text to fit with the latest publications in avian taxonomy and systematics. The second edition includes an accompanying CD-ROM with a searchable electronic database.

CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures

The CRC Handbook of Enthalpy Data of Polymer-Solvent Systems presents data that is as essential to the production, process design, and use of polymers as it is to understanding the physical behavior and intermolecular interactions in polymer solutions and in developing thermodynamic polymer models. Providing an all-encompassing collection of current enthalpy data for all types of polymer solutions, this handbook is a ready companion with Christian

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Wohlfarth's previously published handbooks of thermodynamic data for copolymer solutions, aqueous polymer solutions, and polymer solutions at elevated pressures, which contain only a small amount of enthalpic data in comparison to the data presented here. This volume contains 1770 data sets that include enthalpies of mixing and dilution for the entire concentration range as well as partial enthalpies of mixing and solution at infinite dilution. Special appendices allow scientists to access specific systems and data easily. The CRC Handbook of Enthalpy Data of Polymer-Solvent Systems is a practical, one-stop resource that allows polymer chemists, biochemists, chemical engineers, materials scientists, and physical chemists involved in both industrial and laboratory processes to quickly retrieve relevant information as needed.

CRC Handbook of Chemistry and Physics

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.

CRC Handbook of Thermophysical and Thermochemical Data

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The Handbook of Data Structures and Applications was first published over a decade ago. This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress. While the discipline of data structures has not matured as rapidly as other areas of computer science, the book aims to update those areas that have seen advances. Retaining the seven-part structure of the first edition, the handbook begins with a review of introductory material, followed by a discussion of well-known classes of data structures, Priority Queues, Dictionary Structures, and Multidimensional structures. The editors next analyze miscellaneous data structures, which are well-known structures that elude easy classification. The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs. It concludes with an examination of the applications of data structures. Four new chapters have been added on Bloom Filters, Binary Decision Diagrams, Data Structures for Cheminformatics, and Data Structures for Big Data Stores, and updates have been made to other chapters that appeared in the first edition. The Handbook is invaluable for suggesting new ideas for research in data structures, and for revealing application contexts in which they can be deployed. Practitioners devising algorithms will gain insight into organizing data, allowing them to solve algorithmic problems more efficiently.

CRC Handbook of Solubility Parameters and Other Cohesion Parameters

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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 Data on Organic Compounds: A

The Handbook of Thermodynamic Data of Copolymer Solutions is the world's first comprehensive source of this vital data. Author Christian Wohlfarth, a chemical thermodynamicist specializing in phase equilibria of polymer and copolymer solutions and a respected contributor to the CRC Handbook of Chemistry and Physics, has gathered up-to-the-minute data from more than 300 literature sources. Fully committed to ensuring the reliability of the data, the author included results in the handbook only if numerical values were published or if authors provided their numerical results by personal communication. With volumetric, calorimetric, and various phase equilibrium data on more than 165 copolymers and 165 solvents, this handbook furnishes: 250 vapor-pressure isotherms 75 tables of Henry's constants 50 LLE data sets 175 HPPE data sets 70 PVT data tables Carefully organized, clearly presented, and fully referenced, The Handbook of Thermodynamic Data of Copolymer Solutions will prove a cardinal contribution to the open literature and invaluable to anyone working with copolymers. CRC Handbook of Thermodynamic Data of Polymer Solutions, Three

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Volume Set CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures
CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions
CRC Handbook of Thermodynamic Data of Copolymer Solutions

CRC Handbook of Metal Etchants

CRC Handbook of Data on Organic Compounds

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

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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

CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set

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If you are a researcher in organic chemistry, chemical engineering, pharmaceutical science, forensics, or environmental science, you make routine use of chemical analysis. And like its best-selling predecessor was, the Handbook of Basic Tables for Chemical Analysis, Second Edition is your one-stop source for the information needed to design chemica

CRC Handbook of Chemistry and Physics, 85th Edition

Providing valuable insight on physical behavior of polymer solutions, intermolecular interactions, and the molecular nature of mixtures, each volume in this one-of-a-kind handbook brings together reliable, easy-to-use entries, references, tables, examples, and appendices on experimental data from hundreds of primary journal articles, dissertations,

CRC Handbook of Avian Body Masses, Second Edition

In one convenient source, this ready reference brings together for the first time, all the information available on various cyanobacterial symbioses/symbiotic cyanobacteria. Comprehensive data on structure, physiology, biochemistry and molecular biology of the cyanobiont in various cyanobacterial symbioses is included. Applied aspects such as use of *Azolla* in rice cultivation and artificial symbioses are addressed, along with a chapter dedicated to methodology. This informative new text is useful to researchers, teachers, and students.

CRC Handbook of Data on Organic Compounds

The most important tables from every engineering discipline in one volume collected from the best, most authoritative references in the business--it's now more than wishful thinking. The CRC Handbook of Engineering Tables makes it a reality. The most frequently consulted tables and figures from CRC's acclaimed engineering handbooks are gathered tog

CRC Handbook of Applied Thermodynamics

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

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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, 93rd Edition

New tables in this edition cover lasers, radiation,

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cryogenics, ultra-sonics, semi-conductors, high-vacuum techniques, eutectic alloys, and organic and inorganic surface coating. Another major addition is expansion of the sections on engineering materials and compos-ites, with detailed indexing by name, class and usage. The special Index of Properties allows ready comparisons with respect to single property, whether physical, chemical, electrical, radiant, mechani-cal, or thermal. The user of this book is assisted by a comprehensive index, by cross references and by numerically keyed subject headings at the top of each page. Each table is self-explanatory, with units, abbreviations, and symbols clearly defined and tabular material subdivided for easy reading.

CRC Handbook of Chemistry and Physics, 94th Edition

Thermodynamic data form the basis for separation processes used in different fields of science and industry, from specialty chemicals to foods and pharmaceuticals. One obstacle to developing new production processes, products, or optimization is the lack, or inaccessibility, of experimental data related to phase equilibrium. Access More Than 1200 Data Sets, Including 810 Binary Systems, 325 Ternary Systems, and 25 Quaternary (or Higher) Systems The CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions provides a thorough and up-to-date compilation of experimental liquid-liquid equilibrium (LLE) data and their original sources. Arranged in a consistent format, the handbook provides convenient

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access to cloud-point and coexistence data as well as upper and lower critical solution temperatures and important demixing data for each system. An Excellent Companion to the Author's Previous Collections of Thermodynamic Data! While the author's previous data compilations center around specific types of polymer systems, Wohlfarth's latest work distinguishes itself by focusing instead on representing LLE data for all types of polymer systems in a single source.

CRC Handbook of Pesticides

Dietary fiber is widely recognized as an essential element of good nutrition. In fact, research on the use of fiber in food science and medicine is being conducted at an incredible pace. CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition explores the chemistry, analytical methodologies, physiological and biochemical aspects, clinical and epidemiological studies, and consumption patterns of dietary fiber. Featuring new chapters and tables, in addition to updated sections, the third edition of this popular book includes important information that has become available since the publication of the second edition. What's new in the Third Edition?

- o Definitions and consumption of dietary fiber from 1992-2000
- o A new chapter on the physical chemistry of dietary fiber
- o Updated dietary fiber values for common foods
- o New table: Tartaric Acid Content of Foods
- o Coverage of non-plant food fibers, such as chitin and chitosan
- o An entire section devoted to the effect of whole grains, cereal fiber, and phytic acid on health
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