Crc Handbook Of Thermodynamic Data Of Polymer Solutions Three Volume Set Crc Handbook Of Thermodynamic Data Of Polymer Solutions At Elevated Pressures

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Given that thermodynamics books are not a rarity on the market, why would an additional one be useful? The answer is simple: at any level, thermodynamics is usually taught as a somewhat abstruse discipline where many students get lost in a maze of difficult concepts. However, thermodynamics is not as intricate a subject as most people feel. This book fills a niche between elementary textbooks and mathematically oriented treatises, and provides readers with a distinct approach to the subject. As indicated by the title, this book explains thermodynamic phenomena and concepts in physical terms before proceeding to focus on the requisite mathematical aspects. It focuses on the effects of pressure, temperature and chemical composition on thermodynamic properties and places emphasis on rapidly evolving fields such as amorphous materials, metastable phases, numerical simulations of microsystems and high-pressure thermodynamics. Topics like redox reactions are dealt with in less depth, due to the fact that there is already much literature available. Without requiring a background in quantum mechanics, this book also illustrates the main practical applications of statistical thermodynamics and gives a microscopic interpretation of temperature, pressure and entropy. This book is perfect for undergraduate and graduate students who already have a basic knowledge of thermodynamics and who wish to truly understand the subject and put it in a broader physical perspective. The book is aimed not at theoretical physicists, but rather at practitioners with a variety of backgrounds from physics to biochemistry for whom thermodynamics is a tool which would be better used if better understood.

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.

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.

A Ready-reference Book of Chemical and Physical Data

CRC Handbook of Thermal Engineering, Second Edition

Handbook of Chemistry and Physics

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 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.

Ten years after the debut of the expansive CRC Handbook of Thermodynamic Data of Copolymer Solutions, The CRC Handbook of Phase Equilibria and Thermodynamic Data of Copolymer Solutionsupdates and expands 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 500 newly published references. Fully committed to ensuring the reliability of the data, the author included only results with published or personally communicated numerical values. With volumetric, calormetric, and various phase equilibrium data on more than 450 copolymers and 130 solvents, this handbook furnishes: 150 new vapor-liquid equilibrium datasets 50 new tables containing classical Henry's coefficients 250 new liquid-liquid equilibrium datasets 350 new high-pressure fluid phase equilibrium 70 new PVT-properties datasets 40 new enthalpic datasets Expanded second osmotic virial coefficients data table Carefully organized, clearly presented, and fully referenced, The Handbook of Phase Equilibria and Thermodynamic Data of Copolymer Solutionswill prove a cardinal contribution to the open literature and invaluable to anyone working with copolymers.

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!

Master the principles of thermodynamics with this comprehensive undergraduate textbook, carefully developed to provide students of chemical engineering and chemistry with a deep and intuitive understanding of the practical applications of these fundamental ideas and principles. Logical and lucid explanations introduce core thermodynamic concepts in the context of their measurement and experimental origin, giving students a thorough understanding of how theoretical concepts apply to practical situations. A broad range of real-world applications relate key topics to contemporary issues, such as energy efficiency, environmental engineering and climate change, and further reinforce students' understanding of the core material. This is a carefully organized, highly pedagogical treatment, including over 500 open-ended study questions for discussion, over 150 varied homework problems, clear and objective standards for measuring student progress, and a password-protected solution manual for instructors.

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

A Primer

With Applications to Chemistry

Handbooks and Tables in Science and Technology

Petroleum and chemical engineers are constantly looking for reliable data yet don ' t have the time to search through multiple sources and articles to get the most accurate pieces of data. The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals, 2nd edition brings a one-stop database reference for engineers to quickly gain access on over 12,000 compounds, simple and complex fluids, and an extensive list of properties – all to validate and improve on their thermodynamic modeling. Enhanced with eight new chapters covering more equation of state parameters, Yaws ' product continues to remain a go-to source to crosscheck critical properties available on process simulators or PVT software and estimate these properties based on the group contribution methods described in the different chapters. The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals, 2nd edition stands as the trusted database to optimize petrochemical processes, equipment, and operations. Provides a reliable database reference for thermodynamic properties, even varied by temperature, as well as simple and complex fluids, mixtures, and property calculations Updated with eight additional new chapters covering a modern platform of practical applications in modelling both pure fluids and mixtures with cubic equations of state Delivers accurate and quick options and solutions to size or simulate petrochemical processes and develop better predictive models

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 engineer

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

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

CRC Handbook of Chemistry and Physics

Thermophysical Properties of Chemicals and Hydrocarbons

CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions

CRC Handbook of Solubility Parameters and Other Cohesion Parameters

Provides a bibliography of more than three thousand handbooks in various aspects of science and technology, from abrasives and band structures to yield strength and zero defects

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

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.

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 critical 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 Compou 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 E 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 M Limits for Airborne Contaminants Appendix A: Major update of Mathematical Tables Appendix B: Update of Sources of Physical and Chemical Data

The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals

CRC Handbook of Phase Equilibria and Thermodynamic Data of Polymer Solutions at Elevated Pressures

CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions

CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures

Refineries and petrochemical engineers today are accepting more unconventional feedstocks such as heavy oil and shale, causing unique challenges on the processing side of the business. To create more reliable engineering design of process equipment for the petrochemical industry, petroleum engineers and process managers are forced to study the physical properties and compounds of these particular hydrocarbons. Instead of looking up each compound's information, The Yaws Handbook of Physical Properties for Hydrocarbon Chemicals, Second Edition presents an easy-to-use format with rapid access to search for the particular compound and understand all the complex calculations in one tabular format. Understanding the composition of hydrocarbons is not easy to calculate quickly or accurately, but this must-have reference leads the engineer to better estimated properties and fractions from easily measured components. Expanded to cover more total compounds and relevant functions, The Yaws Handbook of Physical Properties for Hydrocarbons and C Second Edition remains a necessary reference tool for every petrochemical and petroleum engineers' library. Coverage added on elements for hydrocarbons and chemicals with more than 200 real-world cases included for practicality Increased compound coverage from 41,000 to 54,000 total compounds to quickly access for everyday use New functions added such as testing boiling point temperature and new data on density and refractory index

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 Laureate. 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 refra 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 Upda 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 Molec 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 Thermodynamic Data of Aqueous Polymer SolutionsCRC Press

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 provid 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 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, Wohlfharth'slatest work distinguishes itself by focusing instead on representing LLE data for all types of polymer systems in a single source.

CRC Handbook of Chemistry and Physics, 83rd Edition

Chemical Information for Chemists

Macromolecules, Volume 3

Chemistry Data Book

"This comprehensive source provides a complete collection of thermodynamic data of polymer solutions. It helps readers to quickly retrieve all of the relevant information that they need from the literature and also assists researchers in planning new measurements where data are missing. The author, who clearly explains how measurements were conducted and methodically explains his nomenclature, presents data essential for the product and use of polymers as well as for understanding the physical behavior and intermolecular interactions in polymer solution. This text is a valuable resource for the modern chemistry field, where pharmacy and biotechnology water soluble polymers play an important role"--

Compiled by an expert in the field, the book provides an engineer with data they can trust. Spanning gases, liquids, and solids, all critical properties (including viscosity, thermal conductivity, and diffusion coefficient) are covered. From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab or classroom usage. By collecting a large – but relevant – amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long range projects. Simplifies research and significantly reduces the amount of time spent collecting properties data Compiled by an expert in the field, the book provides an engineer with data they can trust in design, research, development and manufacturing A single, easy reference for critical temperature dependent properties for a wide range of hydrocarbons, including C1 to ClOO organics and Ac to Zr inorganics

Providing a broad survey of the entire field, 'Macromolecules' integrates representations of chemistry, physics and technology, as well as including precise descriptions of basic phenomena and balanced treatments of facts and theory.

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 Enthalpy Data of Polymer-Solvent Systems

Physical Structures and Properties

The Physical Basis of Thermodynamics

CRC Handbook of Thermophysical and Thermochemical Data

Thermodynamic data of polymer solutions are paramount for industrial and laboratory processes. These data also serve to understand the physical behavior of polymer solutions, study intermolecular interactions, and gain insights into the molecular nature of mixtures. Nearly a decade has passed since the release of a similar CRC Handbook and since th

This text is a standard reference book for A Level and equivalent examinations.

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.

The CRC Handbook of Thermal Engineering, Second Edition, is a fully updated version of this respected reference work, with chapters written by leading experts. Its first part covers basic concepts, equations and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering, energy-efficient building systems, traditional and renewable energy sources, food processing, and aerospace heat transfer topics. The latest numerical and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also presented. Designed for easy reference, this new edition is a must-have volume for engineers and researchers around the globe.

CRC Handbook of Thermodynamic Data of Copolymer Solutions

CRC Handbook of Applied Thermodynamics

Physical Properties for More Than 54,000 Organic and Inorganic Chemical Compounds, Coverage for C1 to C100 Organics and Ac to Zr Inorganics

Second Edition

Ten years after the debut of the expansive CRC Handbook of Thermodynamic Data of Copolymer Solutions, The CRC Handbook of Phase Equilibria and Thermodynamic Data of Copolymer Solutions updates and expands 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 500 newly published references. Fully committed to ensuring the reliability of the data, the author included only results with published or personally communicated numerical values. With volumetric, calormetric, and various phase equilibrium data on more than 450 copolymers and 130 solvents, this handbook furnishes: 150 new vapor-liquid equilibrium datasets 50 new tables containing classical Henry's coefficients 250 new liquid-liquid equilibrium datasets 350 new high-pressure fluid phase equilibrium 70 new PVT-properties datasets 40 new enthalpic datasets Expanded second osmotic virial coefficients data table Carefully organized, clearly presented, and fully referenced, The Handbook of Phase Equilibria and Thermodynamic Data of Copolymer Solutions will prove a cardinal contribution to the open literature and invaluable to anyone working with copolymers.

This book is a chemical information book aimed specifically at practicing chemists. Useful for students on undergraduate and graduate courses, it could also be a guide to new information specialists who are facing the challenging diversity of chemical literature.

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,

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 chem-ical 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 Thermodynamic Data of Polymer Solutions, Three Volume Set

Thermodynamics with Chemical Engineering Applications

CRC Handbook of Chemistry and Physics, 93rd Edition

Hdbk OF SOLUBILITY PARAMETERS OTHER COHESION PARAMETERS

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, calormetric, 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 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 Phase Equilibria and Thermodynamic Data of Copolymer Solutions

CRC Handbook of Chemistry and Physics, 94th Edition

The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals