

The Journal of Chemical Thermodynamics

Volume 43, Issue 12, Pages 1775-2016 (December 2011)

Original Research Papers

Experimental analysis and modeling of CO₂ solubility in AMP (2-amino-2-methyl-1-propanol) at low CO₂ partial pressure using the models of Deshmukh–Mather and the artificial neural network

Pages 1775–1783

Hassan Pahlavanzadeh, Shiva Nourani, Mohammad Saber

Highlights

► The absorption of CO₂ into aqueous solution of AMP at low CO₂ partial pressure was experimentally and analytically investigated by two different mathematical models which are Deshmukh–Mather model and artificial neural network. ► In experimental section it was observed that the solubility of CO₂ in AMP increases with partial pressure and decreases with temperature and concentration of solvent. ► This study indicates that the neural modeling has a better prediction of experimental CO₂ loadings than Deshmukh–Mather model when is compared with experimental results in this work.

Phase equilibria study of systems composed of refined babassu oil, lauric acid, ethanol, and water at 303.2 K

Pages 1784–1790

Érika C. D'Anton Reipert, Christianne E.C. Rodrigues, Antonio J.A. Meirelles

Highlights

► Refining of vegetable oils. ► Deacidification of babassu oil by liquid–liquid extraction using ethanol as solvent. ► Distribution coefficient values of lauric acid and neutral oil were evaluated. ► The carbon chain length of the molecules influenced the solubility of the system.

Vapor pressure and enthalpy of vaporization of linear aliphatic alkanediamines

Pages 1791–1799

Vasiliy A. Pozdeev, Sergey P. Verevkin

Highlights

► We measured vapor pressure of diamines H₂N–(CH₂)_n–NH₂ with n = 3 to 12. ► Vaporization enthalpies at 298 K were derived. ► We examined consistency of new and available in the literature data. ► Enthalpies of vaporization show linear dependence on numbers n. ► Enthalpies of vaporization correlate linearly with Kovats indices.

Thermodynamics of non-ionic surfactant Triton X-100-cationic surfactants mixtures at the cloud point

Pages 1800–1803

Çiğdem Batıgöç, Halide Akbaş, Mesut Boz

Highlights

► Non-ionic surfactants are used as emulsifier and solubilize in such as textile, detergent and cosmetic. ► Non-ionic surfactants occur phase separation at temperature as named the cloud point in solution. ► Dimeric surfactants

Journal Of Chemical Thermodynamics

J. Bevan Ott, Juliana Boerio-Goates



Journal Of Chemical Thermodynamics:

Chemical Thermodynamics: Advanced Applications J. Bevan Ott, Juliana Boerio-Goates, 2000-06-16 This book is an excellent companion to Chemical Thermodynamics Principles and Applications Together they make a complete reference set for the practicing scientist This volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text In a sense the book covers a middle ground between the basic principles developed in a beginning thermodynamics textbook and the very specialized applications that are a part of an ongoing research project As such it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration The writing style in this volume remains informal but more technical than in Principles and Applications It starts with Chapter 11 which summarizes the thermodynamic relationships developed in this earlier volume For those who want or need more detail references are given to the sections in Principles and Applications where one could go to learn more about the development limitations and conditions where these equations apply This is the only place where Advanced Applications ties back to the previous volume Chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book This may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review The remainder of this book applies thermodynamics to the description of a variety of problems The topics covered are those that are probably of the most fundamental and broadest interest Throughout the book examples of real systems are used as much as possible This is in contrast to many books where generic examples are used almost exclusively A complete set of references to all sources of data and to supplementary reading sources is included Problems are given at the end of each chapter This makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics An excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in Principles and Applications where these equations are developed Applications of thermodynamics in a wide variety of chemical processes including phase equilibria chemical equilibrium properties of mixtures and surface chemistry Case study approach to demonstrate the application of thermodynamics to biochemical geochemical and industrial processes Applications at the cutting edge of thermodynamics Examples and problems to assist in learning Includes a complete set of references to all literature sources

Chemical Thermodynamics: Principles and Applications J. Bevan Ott, Juliana Boerio-Goates, 2000-06-07 Chemical Thermodynamics Principles and Applications presents a thorough development of the principles of thermodynamics an old science to which the authors include the most modern applications along with those of importance in developing the science and those of historical interest The text is written in an informal but rigorous style including anecdotes about some of the great thermodynamicists with some of whom the authors have had a personal relationship and focuses on real systems in the discussion and figures in contrast to the generic examples that are

often used in other textbooks The book provides a basic review of thermodynamic principles equations and applications of broad interest It covers the development of thermodynamics as one of the pre eminent examples of an exact science A discussion of the standard state that emphasizes its significance and usefulness is also included as well as a more rigorous and indepth treatment of thermodynamics and discussions of a wider variety of applications than are found in more broadly based physical chemistry undergraduate textbooks Combined with its companion book Chemical Thermodynamics Advanced Applications the practicing scientist will have a complete reference set detailing chemical thermodynamics Outlines the development of the principles of thermodynamics including the most modern applications along with those of importance in developing the science and those of historical interest Provides a basic review of thermodynamic principles equations and applications of broad interest Treats thermodynamics as one of the preeminent examples of an exact science Provides a more rigorous and indepth treatment of thermodynamics and discussion of a wider variety of applications than are found in more broadly based physical chemistry undergraduate textbooks Includes examples in the text and exercises and problems at the end of each chapter to assist the student in learning the subject Provides a complete set of references to all sources of data and to supplementary reading sources

Journal of Chemical Thermodynamics (majalah). ,1968 The Journal of Chemical Thermodynamics ,2003 *Journal of Chemical Thermodynamics* ,1969 The Journal of Chemical Thermodynamics ,1975 **Bulletin of Chemical Thermodynamics** ,1989 Chemical Thermodynamics Ernő Keszei,2013-01-26 This course derived undergraduate textbook provides a concise explanation of the key concepts and calculations of chemical thermodynamics Instead of the usual classical introduction this text adopts a straightforward postulatory approach that introduces thermodynamic potentials such as entropy and energy more directly and transparently Structured around several features to assist students understanding Chemical Thermodynamics Develops applications and methods for the ready treatment of equilibria on a sound quantitative basis Requires minimal background in calculus to understand the text and presents formal derivations to the student in a detailed but understandable way Offers end of chapter problems and answers for self testing and review and reinforcement of use for self or group study This book is suitable as essential reading for courses in a bachelor and master chemistry program and is also valuable as a reference or textbook for students of physics biochemistry and materials science Chemical Thermodynamics Frederick Dominic Rossini,1950 **Thermodynamics, Solubility and Environmental Issues** Trevor Letcher,2007-04-20 Environmental problems are becoming an important aspect of our lives as industries grow apace with populations throughout the world Thermodynamics Solubility and Environmental Issues highlights some of the problems and shows how chemistry can help to reduce these them The unifying theme is Solubility the most basic and important of thermodynamic properties This informative book looks at the importance and applications of solubility and thermodynamics in understanding and in reducing chemical pollution in the environment Written by experts in their respective fields and representing the latest findings in this

very important and broad area A collection of twenty five chapters cover a wide range of topics including mining polymer manufacture and applications radioactive wastes industries in general agro chemicals soil pollution and biology together with the basic theory and recent developments in the modelling of environmental pollutants Latest research into solving some of the most important environmental problems Covering new technologies new chemicals and new processes eg biodegradable polymers ionic liquids and green chemistry Contains the basic theories and underlying importance of solubility *Journal of Chemical Education* ,1928 Includes Report of New England Association of Chemistry Teachers and Proceedings of the Pacific Southwest Association of Chemistry Teachers

The Chemical Thermodynamics of Organic Compounds Daniel Richard Stull, Edgar F. Westrum, Gerard Clarence Sinke, 1969

Chemical Thermodynamics and Statistical Aspects Joseph J. Stephanos, Anthony W. Addison, 2023-06-27

Chemical Thermodynamics and Statistical Aspects Questions to Ask in Fundamentals and Principles covers a full range of topics in macroscopic and statistical thermodynamics Every step in the book is compiled with sharp and precise attention to detail Derivations cover fundamental relationships and reinforce and extend the knowledge gained from an earlier exposure to thermodynamics The book is filled with all kinds of physics processes a variety of quantum mechanics and calculus problems involving timely mathematical functions Special emphases is given to fundamental concepts and their chemical interpretations which are essential to understanding molecular formation and reaction mechanism This book will be a useful reference source for undergraduates and postgraduates taking courses in chemistry students in chemical engineering and those in the materials sciences It will also be of value to research workers who would like an introduction to the essential principles of physical chemistry Includes detailed solutions with the necessary mathematical techniques provided for every problem Addresses problems incorporating a variety of types of chemical and physical data to illustrate the interdependence of issues Includes a Questions and Answers feature which differentiates this book from competing books in the field

The Dead Sea Tina M. Niemi, Zvi Ben-Avraham, Joel Gat, 1997

Located 400 meters below sea level at the tectonically active irregular boundary between the Mediterranean and Arabic plates the Dead Sea is the site of many interesting phenomena It provides a modern analog for ancient pull apart basins and allows researchers to examine the process of evaporite deposition from deep water It also offers insight into the adaptive ability of the life form living in the hypersaline brine This book based on a conference held in Tel Aviv in December 1993 focuses on the geophysics geochemistry hydrology and climatology of the Dead Sea region

The Journal of Chemical Technology ,1913

Matter and Molecules (First Edition) Horacio Roberto Corti, Roberto J. Fernandez-Prini, Ernesto Marceca, 2019-01-10

Matter and Molecules A Broader and Deeper View of Chemical Thermodynamics provides students with an interdisciplinary exploration of physical chemistry Students learn critical concepts of physical chemistry with special emphasis on application to other areas of science Instead of presenting a narrow specialized view of physical and biological phenomena the text provides a broader global view highlighting the problems and scenarios that must be faced and

understood by chemists biochemists physicists geologists pharmacists engineers and others Over the course of 11 chapters students learn about the fundamentals of thermodynamics molecules statistics and matter partial molar properties and phase transitions and gaseous mixtures They read about mixtures in condensed phases and their equilibrium with vapor solutions surface phenomena and chemical equilibrium The text closes with chapters dedicated to processes with charge transfer non equilibrium processes and future developments anticipated within the discipline Worked examples are included throughout to demonstrate the application of the material presented Matter and Molecules helps students connect the dots between key concepts in physical chemistry and their use in real world settings The text is an excellent resource for undergraduate and graduate courses in physical chemistry

Heat Pumps in Chemical Process Industry Anton A. Kiss, Carlos A. Infante Ferreira, 2016-10-14 As the chemical process industry is among the most energy demanding sectors chemical engineers are endeavoring to contribute towards sustainable future Due to the limitation of fossil fuels the need for energy independence as well as the environmental problem of the greenhouse gas effect there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco efficiency The use of heat pumps is a hot topic due to many advantages such as low energy requirements as well as an increasing number of industrial applications Therefore in the current book authors are focusing on use of heat pumps in the chemical industry providing an overview of heat pump technology as applied in the chemical process industry covering both theoretical and practical aspects working principle applied thermodynamics theoretical background numerical examples and case studies as well as practical applications The worked out examples have been included to instruct students engineers and process designers about how to design various heat pumps used in the industry Reader friendly resources namely relevant equations diagrams figures and references that reflect the current and upcoming heat pump technologies will be of great help to all readers from the chemical and petrochemical industry biorefineries and other related areas

Chemical Thermodynamics W.J. Rankin, 2019-11-11 This book develops the theory of chemical thermodynamics from first principles demonstrates its relevance across scientific and engineering disciplines and shows how thermodynamics can be used as a practical tool for understanding natural phenomena and developing and improving technologies and products Concepts such as internal energy enthalpy entropy and Gibbs energy are explained using ideas and experiences familiar to students and realistic examples are given so the usefulness and pervasiveness of thermodynamics becomes apparent The worked examples illustrate key ideas and demonstrate important types of calculations and the problems at the end of chapters are designed to reinforce important concepts and show the broad range of applications Most can be solved using digitized data from open access databases and a spreadsheet Answers are provided for the numerical problems A particular theme of the book is the calculation of the equilibrium composition of systems both reactive and non reactive and this includes the principles of Gibbs energy minimization The overall approach leads to the intelligent use of thermodynamic software packages but while these

are discussed and their use demonstrated they are not the focus of the book the aim being to provide the necessary foundations Another unique aspect is the inclusion of three applications chapters heat and energy aspects of processing the thermodynamics of metal production and recycling and applications of electrochemistry This book is aimed primarily at students of chemistry chemical engineering applied science materials science and metallurgy though it will be also useful for students undertaking courses in geology and environmental science A solutions manual is available for instructors

Chemical Thermodynamics: Classical, Statistical and Irreversible J. Rajaram, 2012 Aimed at providing undergraduate and postgraduate students with an understanding of this subject the book brings out the thermodynamic interrelationships by explaining its essential elements It begins with the fundamentals and progresses to advanced concepts to enable students to appreciate the application of thermodynamics in different areas of chemistry Chemical Thermodynamics is written in a simple and lucid language the discussion and explanations being interspersed with appropriate worked out examples Every chapter is accompanied by adequate end of chapter exercises

Physico-chemical Aspects of Textile Coloration Stephen M. Burkinshaw, 2016-02-08 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products As the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres Physico Chemical Aspects of Textile Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical CO₂ fluid as alternatives to water as application medium The up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work The book is essential reading for students teachers researchers and professionals involved in textile coloration

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Table of Contents Journal Of Chemical Thermodynamics

1. Understanding the eBook Journal Of Chemical Thermodynamics
 - The Rise of Digital Reading Journal Of Chemical Thermodynamics
 - Advantages of eBooks Over Traditional Books
2. Identifying Journal Of Chemical Thermodynamics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Journal Of Chemical Thermodynamics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Journal Of Chemical Thermodynamics

- Personalized Recommendations
- Journal Of Chemical Thermodynamics User Reviews and Ratings
- Journal Of Chemical Thermodynamics and Bestseller Lists
- 5. Accessing Journal Of Chemical Thermodynamics Free and Paid eBooks
 - Journal Of Chemical Thermodynamics Public Domain eBooks
 - Journal Of Chemical Thermodynamics eBook Subscription Services
 - Journal Of Chemical Thermodynamics Budget-Friendly Options
- 6. Navigating Journal Of Chemical Thermodynamics eBook Formats
 - ePub, PDF, MOBI, and More
 - Journal Of Chemical Thermodynamics Compatibility with Devices
 - Journal Of Chemical Thermodynamics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Journal Of Chemical Thermodynamics
 - Highlighting and Note-Taking Journal Of Chemical Thermodynamics
 - Interactive Elements Journal Of Chemical Thermodynamics
- 8. Staying Engaged with Journal Of Chemical Thermodynamics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Journal Of Chemical Thermodynamics
- 9. Balancing eBooks and Physical Books Journal Of Chemical Thermodynamics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Journal Of Chemical Thermodynamics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Journal Of Chemical Thermodynamics
 - Setting Reading Goals Journal Of Chemical Thermodynamics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Journal Of Chemical Thermodynamics

- Fact-Checking eBook Content of Journal Of Chemical Thermodynamics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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