

AZEOTROPIC DATA FOR BINARY MIXTURES

Liquid mixtures having an extremum (maximum or minimum) vapor pressure at constant temperature, as a function of composition, are called azeotropic mixtures, or simply azeotropes. Mixtures that do not show a maximum or minimum are called azotropic. Azeotropes in which the pressure is a maximum are often called positive azeotropes, while pressure-minimum azeotropes are called negative azeotropes. The coordinates of an azeotropic point are the azeotropic temperature t_{az} , pressure P_{az} , and liquid-phase composition, usually expressed as mole fractions. At the azeotropic point, the vapor-phase composition is the same as the liquid-phase composition.

This table gives azeotropic data for a number of binary mixtures at normal atmospheric pressure ($P_{atm} = 101.3 \text{ kPa}$). Component 1 of each mixture is given in bold face. The temperature t_{az} and mole fraction x_1 of component 1 are listed for each choice of component 2.

The components are arranged in a modified Hill order, with substances that do not contain carbon preceding those that do contain carbon.

REFERENCES

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2. Horsley, L.H., *Azeotropic Data, III*, American Chemical Society, Washington, D.C., 1973.

Molecular formula	Name	$t_{az}/^{\circ}\text{C}$	x_1
	Water H_2O		
CHCl_3	Trichloromethane	56.1	0.160
CH_2O_2	Formic acid	107.2	0.427
CH_3NO_2	Nitromethane	83.6	0.511
CS_2	Carbon disulfide	42.6	0.109
$\text{C}_2\text{H}_3\text{N}$	Acetonitrile	76.5	0.307
$\text{C}_2\text{H}_5\text{NO}_2$	Nitroethane	87.2	0.624
$\text{C}_2\text{H}_6\text{O}$	Ethanol	78.2	0.096
$\text{C}_4\text{H}_8\text{O}_2$	Ethyl acetate	70.4	0.312
$\text{C}_4\text{H}_{10}\text{O}$	1-Butanol	92.7	0.753
$\text{C}_4\text{H}_{10}\text{O}$	2-Butanol	87	0.601
$\text{C}_5\text{H}_5\text{N}$	Pyridine	93.6	0.755
$\text{C}_5\text{H}_{11}\text{N}$	Piperidine	92.8	0.718
C_5H_{12}	Pentane	34.6	0.054
$\text{C}_6\text{H}_5\text{Cl}$	Chlorobenzene	90.2	0.712
C_6H_6	Benzene	69.3	0.295
$\text{C}_6\text{H}_6\text{O}$	Phenol	99.5	0.981
C_6H_{10}	Cyclohexene	70.8	0.308
C_6H_{12}	Cyclohexane	69.5	0.300
C_6H_{14}	Hexane	61.6	0.221
C_7H_8	Toluene	84.1	0.444
C_7H_{16}	Heptane	79.2	0.452
C_8H_{10}	1,3-Dimethylbenzene	92	0.767
C_8H_{18}	Ethylbenzene	92	0.744
C_8H_{18}	Octane	89.6	0.673
$\text{C}_8\text{H}_{18}\text{O}$	Dibutyl ether	92.9	0.781
C_9H_{20}	Nonane	94.8	0.970
$\text{C}_{12}\text{H}_{27}\text{N}$	Tributylamine	99.7	0.976
	Tetrachloromethane CCl_4		
CH_2O_2	Formic acid	66.7	0.569
CH_3NO_2	Nitromethane	71.3	0.660
CH_4O	Methanol	55.7	0.445
$\text{C}_2\text{H}_3\text{N}$	Acetonitrile	65.1	0.566
$\text{C}_2\text{H}_6\text{O}$	Ethanol	65.0	0.615
$\text{C}_3\text{H}_6\text{O}$	Acetone	56.1	0.047
$\text{C}_3\text{H}_8\text{O}$	1-Propanol	73.4	0.820
$\text{C}_4\text{H}_{10}\text{O}$	1-Butanol	76.6	0.951
	Formic acid CH_2O_2		
CS_2	Carbon disulfide	42.6	0.253
	Nitromethane CH_3NO_2		
CS_2	Carbon disulfide	41.2	0.845
	Methanol CH_4O		
$\text{C}_3\text{H}_8\text{O}$	Acetone	55.5	0.198

Azeotropic Data For Binary Mixtures

Sabine Zange



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CRC Handbook of Thermophysical and Thermochemical Data David R. Lide, Henry V. Kehiaian, 2020-09-23 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

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CRC Handbook of Chemistry and Physics David R. Lide, 1995-03-09 This student edition features over 50 new or completely revised tables most of which are in the areas of fluid properties and properties of solids The book also features extensive references to other compilations and databases that contain additional information

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Haynes, 2016-04-19 Celebrating the 100th anniversary of the CRC Handbook of Chemistry and Physics this 94th edition is an update of a classic reference mirroring the growth and direction of science for a century The Handbook continues to be the most accessed and respected scientific reference in the science technical and medical communities An authoritative resource consisting of tables of data its usefulness spans every discipline Originally a 116 page pocket sized book known as the Rubber Handbook the CRC Handbook of Chemistry and Physics comprises 2 600 pages of critically evaluated data An essential resource for scientists around the world the Handbook is now available in print eBook and online formats New tables Section 7 Biochemistry Properties of Fatty Acid Methyl and Ethyl Esters Related to Biofuels Section 8 Analytical Chemistry Gas Chromatographic Retention Indices Detectors for Liquid Chromatography Organic Analytical Reagents for the Determination of Inorganic Ions Section 12 Properties of Solids Properties of Selected Materials at Cryogenic Temperatures

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CRC Handbook of Chemistry and Physics William M. Haynes, 2011-06-06 Mirroring the growth and direction of science for a century the CRC Handbook of Chemistry and Physics now in its 92nd edition continues to be the most accessed and respected scientific reference in the world used by students and Nobel Laureates Available in its traditional print format the Handbook is also available as an innovative interactive product on DVD and online Among a wealth of enhancements this edition analyzes updates and validates molecular formulas and weights boiling and melting points densities and refractive indexes in the Physical Constants of Organic Compounds Table through comparisons with critically evaluated data from the NIST Thermodynamics Research Center New Tables Analytical Chemistry Abbreviations Used In Analytical Chemistry Basic Instrumental Techniques of Analytical Chemistry Correlation Table for Ultraviolet Active Functionalities Detection of Outliers in Measurements Polymer Properties Second Virial Coefficients of Polymer Solutions Updated Tables Properties of the Elements and Inorganic Compounds Update of the Melting Boiling Triple and Critical Points of the Elements Fluid Properties Major update and expansion of Viscosity of Gases table Major update and expansion of Thermal Conductivity of Gases table Major update of Properties of Cryogenic Fluids Major update of Recommended Data for Vapor Pressure Calibration Expansion of table on the Viscosity of Liquid Metals Update of Permittivity Dielectric Constant of Gases table Added new refrigerant R 1234yf to Thermophysical Properties of Selected Fluids at Saturation table Molecular Structure and Spectroscopy Major update of Atomic Radii of the Elements Update of Bond Dissociation Energies Update of Characteristic Bond Lengths in Free Molecules Atomic Molecular and Optical Physics Update of Electron Affinities Update of Atomic and Molecular Polarizabilities Nuclear and Particle Physics Major update of the Table of the Isotopes Properties of Solids Major update and expansion of the Electron Inelastic Mean Free Paths table Update of table on Semiconducting Properties of

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Handbook of Downstream Processing E. Goldberg, 2012-12-06 The last two decades have seen a phenomenal growth of the field of genetic or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products typically through the manipulation and growth of different types of microorganisms followed by the recovery and purification of the associated products The engineers and biotechnologists who are involved in the full scale process design of such facilities must be familiar with the variety of unit operations and equipment and the applicable regulatory requirements This book describes current commercial practice and will be useful to those engineers working in this field in the design construction and operation of pharmaceutical and biotechnology plants It will be of help to the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as Should the process be batch or continuous or a combination of batch and continuous How should the optimum process design be developed Should one employ a new revolutionary separation which could be potentially difficult to validate or use accepted technology which involves less risk Should the process be run with ingredients formulated from water for injection deionized water or even filtered tap water Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible Should the process equipment and lines be designed to be sterilized in place cleaned in place or should every piece be broken down cleaned and autoclaved after every turn

Handbook of Membrane Separations Anil K. Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors

Phase Equilibrium Engineering Esteban Alberto Brignole, Selva Pereda, 2013-04-02 Traditionally the teaching of phase equilibria emphasizes the relationships between the thermodynamic variables of each phase in equilibrium rather than its engineering applications This book changes the focus from the use of thermodynamics relationships to compute phase equilibria to the design and control of the phase conditions that a process needs Phase Equilibrium Engineering presents a systematic study and application of phase equilibrium tools to the development of chemical processes The thermodynamic modeling of mixtures for process development synthesis simulation design and optimization is analyzed The relation between the mixture molecular properties the selection of the thermodynamic model and the process technology that could be applied are discussed A classification of mixtures separation process thermodynamic models and technologies is presented to guide the engineer in the world of separation processes The phase condition required for a given reacting system is studied at subcritical and supercritical conditions The four cardinal

points of phase equilibrium engineering are the chemical plant or process the laboratory the modeling of phase equilibria and the simulator The harmonization of all these components to obtain a better design or operation is the ultimate goal of phase equilibrium engineering Methodologies are discussed using relevant industrial examples The molecular nature and composition of the process mixture is given a key role in process decisions Phase equilibrium diagrams are used as a drawing board for process implementation 1998 Freshman Achievement Award David R. Lide,1998 *British Chemical Abstracts*,1926 **British Abstracts**,1926 **Handbook of Laboratory Distillation** E. Krell,1982-02-01 Handbook of Laboratory Distillation **Thermodynamics of Phase Equilibria in Food Engineering** Camila Gambini Pereira,2018-10-17

Thermodynamics of Phase Equilibria in Food Engineering is the definitive book on thermodynamics of equilibrium applied to food engineering Food is a complex matrix consisting of different groups of compounds divided into macronutrients lipids carbohydrates and proteins and micronutrients vitamins minerals and phytochemicals The quality characteristics of food products associated with the sensorial physical and microbiological attributes are directly related to the thermodynamic properties of specific compounds and complexes that are formed during processing or by the action of diverse interventions such as the environment biochemical reactions and others In addition in obtaining bioactive substances using separation processes the knowledge of phase equilibria of food systems is essential to provide an efficient separation with a low cost in the process and high selectivity in the recovery of the desired component This book combines theory and application of phase equilibria data of systems containing food compounds to help food engineers and researchers to solve complex problems found in food processing It provides support to researchers from academia and industry to better understand the behavior of food materials in the face of processing effects and to develop ways to improve the quality of the food products Presents the fundamentals of phase equilibria in the food industry Describes both classic and advanced models including cubic equations of state and activity coefficient Encompasses distillation solid liquid extraction liquid liquid extraction adsorption crystallization and supercritical fluid extraction Explores equilibrium in advanced systems including colloidal electrolyte and protein systems Petroleum Refining Design and Applications Handbook, Volume 3 A. Kayode Coker,2022-06-21

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