

AZEOTROPIC DATA FOR BINARY MIXTURES

J. Gmehling, J. Menke, J. Krafczyk, K. Fischer, J.-C. Fontaine, and H. V. Kehlenan

Binary homogeneous (single-phase) liquid mixtures having an extremum (maximum or minimum) vapor pressure P at constant temperature T , as a function of composition, are called azeotropic mixtures, or simply azeotropes. The composition is usually expressed as mole fractions, where x_i for component i in the liquid phase and y_i for component i in the vapor phase are identical. Mixtures that do not show a maximum or minimum are called zeotropic. A maximum (minimum) of the $P(x_i)$ or $P(y_i)$ curves corresponds to a minimum (maximum) of the boiling temperature T at constant P plotted as a function of x_i or y_i , [see $T(x_i)$ and $T(y_i)$ curves, Types I and II, in Fig. 1]. Azeotropes in which the pressure is a maximum (temperature is a minimum) are often called positive azeotropes, while pressure-minimum (temperature-maximum) azeotropes are called negative azeotropes. The coordinates of an azeotropic point are the azeotropic temperature T_{az} , pressure P_{az} , and the vapor-phase composition $y_{1,az}$, which is the same as the liquid-phase composition $x_{1,az}$.

In the two-phase liquid-liquid region of partially miscible (heterogeneous) mixtures, the vapor pressure at constant T (or the boiling temperature at constant P) is independent of the global composition x , of the two coexisting liquid phases between the equilibrium compositions x' and x'' ($x' < x < x''$)

ration is impossible by ordinary distillation, even with an infinitely large number of stages.

Following eq. (1) azeotropic behavior will always occur in homogeneous binary systems when the vapor pressure ratio P_1^s/P_2^s is equal to the ratio of the activity coefficients γ_1/γ_2 .

Various thermodynamic methods based on g^E -models (Wilson, NRTL, UNIQUAC) or group contribution methods (UNIFAC, modified UNIFAC, ASOG, PSRK) can be used for either calculating or predicting the required activity coefficients for the components under given conditions of temperature and composition (Reference 2).

Because of the importance of azeotropic data for the design of distillation processes, compilations have been available in book form for quite some time (References 3-7). The most recent printed data collection was published in 1994 (Reference 8). A revised and extended version appeared in 2004 (Reference 9).

A collection of approximately 47,400 zeotropic and azeotropic data sets, compiled from 6600 references, are stored in a comprehensive computerized data bank (Reference 10). The references from the above-mentioned compilations and from the vapor-liquid equilibrium part of the Dortmund Data Bank (Reference 11) were supplemented by references found from CAS online

Azeotropic Data For Binary Mixtures

Pradyot Patnaik



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chemical engineering problems **Analytical Chemistry Handbook** John Aurie Dean,1995 This comprehensive book offers chemists and chemical engineers detailed coverage of the full range of analytical methods including all the conventional wet and instrumental techniques It also provides information on the preliminary operations of analysis preeliminary separation methods and statistics in chemical analysis all essential in the application of any analytical method Separation Process Principles J. D. Seader,Ernest J. Henley,D. Keith Roper,2016-01-11 Separation Process Principles with Applications Using Process Simulator 4th Edition is the most comprehensive and up to date treatment of the major separation operations in the chemical industry The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice Completely rewritten to enhance clarity this fourth edition provides engineers with a strong understanding of the field With the help of an additional co author the text presents new information on bioseparations throughout the chapters A new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis Boxes help highlight fundamental equations Numerous new examples and exercises are integrated throughout as well International DATA Series: Selected Data on Mixtures ,1992 **British Chemical and Physiological Abstracts** ,1930 *Calculations and Theory of Distillation* Arthur Rose,Elizabeth Rose,1957 **Reviews of Petroleum Technology** Institute of Petroleum (Great Britain),1953 **Reviews of Petroleum Technology** ,1953 **A Critical Literature Study on Scaling Laws for Heat Transfer** Rolf Andersen,Vagn S. Pejtersen,1970 **Separation Process Engineering** Phillip C. Wankat,2007 Reviewing core concepts such as equilibrium and unit operations this title introduces a step by step process for solving separation problems It looks at each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process it presents principles techniques equations and examples

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