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Phase equilibrium knowledge is required for the design of all sorts of chemical processes that may involve separations, reactions, fluids flow, particle micronization, etc. Indeed, different phase behavior scenarios are required for a rational conceptual process design.

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PHASE EQUILIBRIA AND PHASE DIAGRAMS Phase diagrams are one of the most important sources of information concerning the behavior of elements, compounds and solutions. They provide us with the knowledge of phase composition and phase stability as a function of temperature (T), pressure (P) and composition (C).

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Fluid Phase Equilibria - Journal - Elsevier

Phase Equilibria and Salt Effect on the Aqueous Two-Phase System of Polyoxyethylene Cetyl Ether and Sulfate Salt at Three Temperatures. Journal of Chemical & Engineering Data 2016 , 61 (6) , 2135-2143.

Measurement and Correlation of Phase Equilibria in Aqueous ...

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The phase rule is a general principle governing "pVT systems" in thermodynamic equilibrium, whose states are completely described by the variables pressure (p), volume (V) and temperature (T). If F is the number of degrees of freedom, C is the number of components and P is the number of phases, then
$$F=C-P+2.$$

Phase rule - Wikipedia

Phase Equilibria in Hydrocarbon - Water Systems (Department of Chemical Engineering, The Pennsylvania State University, Report No. API-7-77). Kabadi, Vinayak and Ronald P. Danner and The Department of Chemical Engineering, The Pennsylvania State University. Published by Department of Chemical Engineering, The Pennsylvania State University. (1977)

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