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A total of 38 binary azeotropic and zeotropic data for various ethers (MTBE, TAME, TAEE, ETBE, IPTBE) with different alcohols have already been published (Gmehling et al., 1995). A total of 273 binary and 28 ternary azeotropic and zeotropic data are reported in this paper.

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The azeotrope occurs when the liquid phase composition and the gas phase composition are identical in a binary mixture B-W at the equilibrium, or the total vapor pressure as a function of  $x_B$  shows an extremum, as depicted in Fig. II-9, i.e.,  $dp/dx_B = 0$  with  $p = p_B + p_W$ . It follows then that,

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2nd Component b.p. of comp. (°C) b.p. of mixture (°C) % by weight sp. grav; with various alcohols: ethanol: 78.4: 78.1: 95.5: 0.804: methanol: 64.7: No azeotrope ...

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-liquid composition of  
mixture \u0026 B. P.  
Composition Diagram ,  
Azeotropes

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*Binary Phase Diagrams  
Explained* What is  
EXTRACTIVE  
DISTILLATION? What does  
EXTRACTIVE  
DISTILLATION mean?  
Binary VLE calculations  
part 7: using the NRTL  
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y Diagram for Vapor-  
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of a Binary Mixture

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components,  
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mixtures of solvents. Data  
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mixture by weight (in  
binary azeotropes when  
only one fraction is given,  
it is the fraction of the  
second component),  
boiling point of  
components, boiling point  
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of Azeotrope | Azeotrope  
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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 zeotropic. Azeotropes in which the pressure

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