

Vapor-Liquid Equilibria for n-Pentane + 2-Butanol System near the Critical Region

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Isothermal Vapor-Liquid Equilibrium data for the binary n-Pentane + 2-Butanol System (at 468.15K, 483.15K, 498.15K and 513.15K) were measured near the critical region. We used two-phase circulating equipment with the view cell. Critical pressure was determined from the critical opalescence of the mixture. These mixtures show highly non-ideal behavior due to the association of alkanol. The experimental data were correlated by the Peng-Robinson-Stryjek-Vera(PRSV) equation of state with Wong-Sandler mixing rule and Multi-Fluid Nonrandom Lattice Fluid Nonrandom Lattice Fluid with Hydrogen Bonding(MF-NLF-HB).