

Vapor-Liquid Equilibria Measurement for the System of dimethyl ether(DME)+ iodomethane(CH₃I) at various temperatures from 303.15 to 323.15 K

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VLE data for binary systems of dimethyl ether(DME)+ iodomethane(CH₃I) were measured at four equal spaced temperatures between 303.15-323.15K using a circulation-type equilibrium apparatus. The measured data were correlated with the Peng-Robinson equation of state (PR-EoS) using the Wong-Sandler mixing rules combined with the NRTL excess Gibbs free energy model and the Peng-Robinson equation of state (PR-EoS) using the Universal mixing rule. Calculated results with these equations have given satisfactory results in the comparison with the experimental data.