

Vapor-Liquid Equilibria Measurement for the System of dimethyl ether(DME)+ dimethyl carbonate(DMC)

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VLE data for binary systems of dimethyl ether(DME)+ dimethyl carbonate(DMC) were measured at three equal spaced temperatures between 303.15–343.15K. The data in the two-phase region were measured by using a circulation-type equilibrium apparatus. The experimental 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. The calculated results with these equations show good agreement with the experimental data.