

Vapor-Liquid Equilibria Measurement for the System of carbon dioxide(CO₂)+ methyl iodide(CH₃I)

조현, 임종성*
서강대학교
(limjs@sogang.ac.kr*)

VLE data for binary systems of carbon dioxide(CO₂)+ methyl iodide(CH₃I) were measured at four equal spaced temperatures between 283.15–313.15K 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.