Phase Equilibria of the Binary Systems of {1,2-dichloropropane + methanol, or ethanol} at 101.3 kPa

김문갑*, 김재원, 김태경
상주대학교 응용화학공학부
(mgkim@sangju.ac.kr*)

Vapor-liquid equilibria(VLE) of {1,2-dichloropropane + methanol, or + ethanol} at 101.3 kPa have been measured with a dynamic recirculating still. The experimental VLE data for the binary systems are thermodynamically consistent. All the two binary systems exhibit the minimum boiling azeotropes. The VLE data were correlated by the Margules, van Laar, Wilson, NRTL and UNIQUAC equations for liquid phase activity coefficients and the appropriate parameters are reported. And the experimental results have been compared with the predictions of VLE by UNIFAC model. The experimental data were tested for the thermodynamic consistency and satisfactorily correlated.