

Isobaric Vapor-Liquid equilibria data for the binary mixture of water + acetic acid and 1-nonanol at several pressure

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Abstract

The isobaric Vapor-liquid equilibrium data for the binary system of water + acetic acid and 1-nonanol at 101.3, 80, 50 and 40 kPa. All experimental data were confirmed using Van Less test for consistency of experimental data. Also Experimental data were correlated using the activity coefficient model such as NRTL and UNQUAC. The average relative deviations of the Temperature (ARD-T (%)) and the average relative deviations of the vapor-phase composition (ARD-y (%)) between Experimental and calculated data were present and Binary parameter values from NRTL and UNQUAC model was calculated.

Keywords: VLE, Isobaric, NRTL, UNQUAC