

Isobaric Vapor-Liquid equilibria for
the binary mixture of
water + 2,3-butanediol

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Abstract

The isobaric Vapor-liquid equilibrium data for the binary system of water + 2,3-butanediol were measured at 101.3, 80, 66.7, 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 UNIQUAC. 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 UNIQUAC model was calculated.

Keywords: VLE, Isobaric, NRTL, UNIQUAC