

Vapor-liquid equilibria of binary mixtures of acetonitrile and BMImI

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In this study, vapor-liquid equilibria(VLE) of the acetonitrile + 1-butyl-3-methylimidazoliumiodide system was measured for six isotherms ranging from 283.15 to 333.15K at 10K interval.

The VLE data of the binary mixture were obtained at various compositions. The experimental data have been correlated with Peng-Robinson equation of state(PR EOS) using one-fluid mixing rule, Wong-Sandler mixing rule and nonrandom two liquid model. The correlation results by Peng-Robinson equation of state with Wong-Sandler mixing rule and nonrandom two liquid model are in reasonable agreement with the experimental data.