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Isothermal Vapor–Liquid Equilibria in the Diluted Polystyrene + Toluene System

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Isothermal vapor–liquid equilibria in the diluted polystyrene + toluene system

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Vapour–liquid equilibria (VLE) have been determined in the polystyrene + toluene system. The system has been investigated isothermally at 363.15, 373.15 and 383.15 K. An improved modification of all-glass microebulliometer with circulation of liquid phase was used for dynamic measurements of total pressure over liquid mixtures. The experimental data were correlated with use of the UNIQUAC model. The Entropic-FV and the GC-Flory equation of state models were applied to predict VLE, and the results were compared with the experimental data. Both predictive models are of the same quality and capable of predicting VLE for studied system.