Densities of Pure Ionic Liquids and Mixtures: Modeling and Data Analysis

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Our two-parameter corresponding states model for liquid densities and compressibilities has been extended to more pure ionic liquids and to their mixtures with one or two solvents. A total of 19 new group contributions (5 new cations and 14 new anions) have been obtained for predicting pressure effects over wide ranges of temperature and pressure. Comparisons of the technique with contemporary treatments based on equations of state show that it compares favorably with all other approaches.

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