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Modeling the solvatochromic parameter ( ) of mixed solvents with respect to solvent composition and temperature using the Jouyban-Acree model

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Abstract:

Applicability of the Jouyban-Acree model for calculation of solvatochromic parameter ( ) of binary solvents at various temperatures has been shown by employing 12 experimental data sets collected from the literature. The accuracy of the model was evaluated by calculating average percentage deviation (APD) between calculated and observed values. The obtained overall APD (± S.D.) were 1.2 (± 0.9) and 2.2 (± 1.8) %, respectively for correlative and predictive analyses.

Keywords:

Solvatochromic parameter ( ) . Mixed solvents . Mathematical model . Jouyban-Acree model

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