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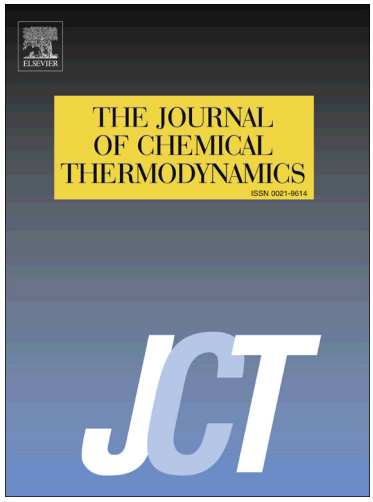

Commentary concerning the "Measurement and correlation of the solubility of rivaroxaban (form I) in binary mixtures of ethyl acetate with tetrahydrofuran, *N*,*N*-dimethylformamide, and *N*,*N*-dimethylacetamide from *T* = (278.15 to 318.15) K"

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Commentary concerning the "Measurement and correlation of the solubility of rivaroxaban (form I) in binary mixtures of ethyl acetate with tetrahydrofuran, *N*,*N*-dimethylformamide, and *N*,*N*-dimethylacetamide from *T* = (278.15 to 318.15) K"

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Abstract

The published model coefficients of Zhang and co-workers [J. Chem. Thermodynamics 94 (2016) 1–6] were discussed for mathematically describing the solubility of rivaroxaban (form I) by using the Jouyban-Acree model in binary mixture of ethyl acetate with *N*,*N*-dimethylformamide and Buchowski (λh) equation in the three solvent mixtures. The published model coefficients fail to describe the mole fraction solubility as stated in the published paper. The model coefficients are re-analyzed by using the Jouyban-Acree model and Buchowski (λh) equation based on the authors' experimental solubility data.

Keywords: Rivaroxaban; Solubility; *N*,*N*-Dimethylformamide; Ethyl acetate; Jouyban-Acree model; λh equation

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