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Commentary concerning the “Measurement, correlation of the solubility and solution thermodynamics of 2-cyanoguanidine in (methanol + water) binary solvent systems from $T = (283.15 \text{ to } 343.15) \text{ K}$ ”

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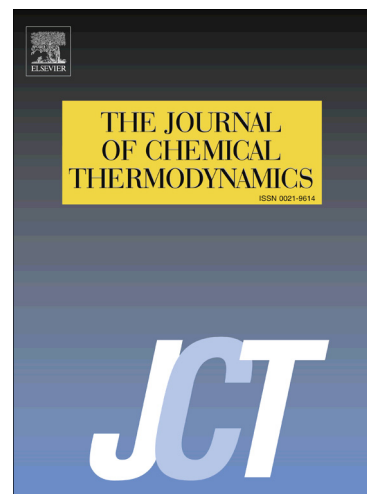
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Commentary concerning the “Measurement, correlation of the solubility and solution thermodynamics of 2-cyanoguanidine in (methanol + water) binary solvent systems from $T = (283.15$ to $343.15)$ K”

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Abstract

Errors are discovered regarding the published equation coefficients of Zhang and co-workers [J. Chem. Thermodynamics 89 (2015) 233–239] for mathematically describing the solubility behavior of 2-cyanoguanidine in neat solvents using the λh equation. The back-calculated values using the published equation coefficients are not the mole fraction solubility as stated in the published paper. Furthermore, the λ and h parameters were re-analysed according to the experimental solubility data.

Keywords: 2-Cyanoguanidine; Solubility; λh equation

In a recent work published in the Journal of Chemical Thermodynamics, Zhang and co-workers reported the solubility of 2-cyanoguanidine in binary solvent mixtures of (water + methanol). Solubility data was determined in the temperature range from 283.15 K to 343.15 K using a static method. An excess of 2-cyanoguanidine was added to a specified amount of solvent to dissolve.

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