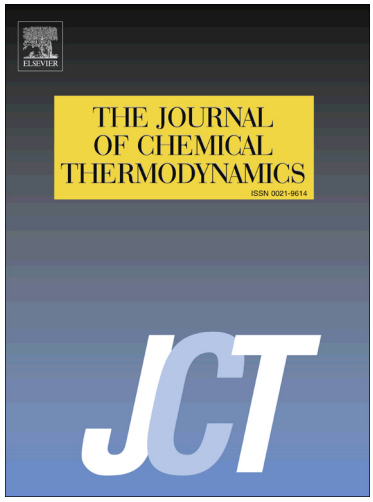

Commentary concerning the "Measurement, correlation of the solubility and solution thermodynamics of 2-cyanoguanidine in (methanol + water) binary solvent systems from T = (283.15 to 343.15) K"

Jiaojiao Ma, Jinhua Liang, Hongkun Zhao

PII: S0021-9614(18)30886-3
DOI: https://doi.org/10.1016/j.jct.2018.08.039
Reference: YJCHT 5527

To appear in: *J. Chem. Thermodynamics*

Received Date: 27 August 2018
Accepted Date: 28 August 2018

Please cite this article as: J. Ma, J. Liang, H. Zhao, 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", *J. Chem. Thermodynamics* (2018), doi: https://doi.org/10.1016/j.jct.2018.08.039

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"

Jiaojiao Ma, Jinhua Liang, Hongkun Zhao*

College of Chemistry & Chemical Engineering, YangZhou University, YangZhou, Jiangsu 225002, People's Republic of China

Corresponding author. Tel: + 86 514 87975568; Fax: + 86 514 87975244.

E-mail address: hkzhao@yzu.edu.cn (H.K. Zhao).

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.