



January 8, 2015: Vol. 60, Iss. 1

Content

1. Editorial: JCED in 2015

Joan Brennecke

Journal of Chemical & Engineering Data 2015 60 (1), 1-1

2. Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15, and 313.15) K

Qiuxia Xu, Shaoyang Sun, Gongjia Lan, Jianbai Xiao, Jianbin Zhang, and Xionghui Wei

Journal of Chemical & Engineering Data 2015 60 (1), 2-10

3. Solubility of Diosgenin in Several Imidazolium-Based Ionic Liquids

Li Ge, Liangchi Guo, Kedi Yang, Kejia Tao, Jing Su, and Yunfei Long

Journal of Chemical & Engineering Data 2015 60 (1), 11-15

4. Temperature-Dependent Physicochemical Properties and Solvation Thermodynamics of Nitrotoluenes from Solvation Free Energies

Alauddin Ahmed and Stanley I. Sandler

Journal of Chemical & Engineering Data 2015 60 (1), 16-27

5. Enhancing Liquid-Phase Olefin-Paraffin Separations Using Novel Silver-Based Ionic Liquids

Yu Wang, Weiye Hao, Johan Jacquemin, Peter Goodrich, Mert Atilhan, Majeda Khraisheh, David Rooney, and Jillian Thompson

Journal of Chemical & Engineering Data 2015 60 (1), 28-36

6. Fractionation of Bergamot and Lavandin Crude Essential Oils by Solvent Extraction: Phase Equilibrium at 298.2 K

Cristina C. Koshima, Karina T. Nakamoto, Keila K. Aracava, Alessandra L. Oliveira, and Christianne E. C. Rodrigues

Journal of Chemical & Engineering Data 2015 60 (1), 37-46

7. Interactions of Saccharides in Aqueous Glycine and Leucine Solutions at Different Temperatures of (293.15 to 313.15) K: A Viscometric Study

Kuldeep Kumar, Baljeet Singh Patial, and Suvarcha Chauhan
Journal of Chemical & Engineering Data **2015** 60 (1), 47-56

8. Liquid–Liquid Equilibrium for Ternary System Methanol + Methyl Acetate + 1,3-Dimethylimidazolium Dimethylphosphate at Several Temperatures and Atmospheric Pressure

Fufeng Cai, Jessica Juweriah Ibrahim, Lei Niu, Wei Xu, and Guomin Xiao
Journal of Chemical & Engineering Data **2015** 60 (1), 57-64

9. Phase Equilibrium, Excess Enthalpies, and Densities of Binary Mixtures of Trimethylbutylammonium Bis(trifluoromethylsulfonyl)imide with Ethanol, 1-Propanol, and Dimethylformamide

Marjorie Massel, Anne-Laure Revelli, Ethan Paharik, Maribeth Rauh, Lesli O. Mark, and Joan F. Brennecke
Journal of Chemical & Engineering Data **2015** 60 (1), 65-73

10. Sublimation Enthalpies of 5-Haloderivatives of 1,3-Dimethyluracil

Bruno Brunetti, Simona Irrera, and Gustavo Portalone
Journal of Chemical & Engineering Data **2015** 60 (1), 74-81

11. Solid–Liquid Stable Equilibrium of the Aqueous Quaternary System $\text{NH}_4\text{SCN}-(\text{NH}_4)_2\text{S}_2\text{O}_3-(\text{NH}_4)_2\text{SO}_4-\text{H}_2\text{O}$ at 303.15 K

Dongchan Li, Fei Li, Yingying Zhao, and Junsheng Yuan
Journal of Chemical & Engineering Data **2015** 60 (1), 82-88

12. Thermochemistry of Halogen-Substituted Methylbenzenes

Sergey P. Verevkin, Aleksandra Yu. Sazonova, Vladimir N. Emel'yanenko, Dzmitry H. Zaitsau, Mikhail A. Varfolomeev, Boris N. Solomonov, and Kseniya V. Zherikova
Journal of Chemical & Engineering Data **2015** 60 (1), 89-103

13. Solubilities of Carbon Dioxide in Five Biobased Solvents

Dongshun Deng, Guoqiang Han, Yaotai Jiang, and Ning Ai
Journal of Chemical & Engineering Data **2015** 60 (1), 104-111

14. Measurement and Correlation of the Solubility of Penicillin V Potassium in Ethanol + Water and 1-Butyl Alcohol + Water Systems

Tingting Wei, Chen Wang, Shichao Du, Songgu Wu, Jianyu Li, and Junbo Gong
Journal of Chemical & Engineering Data **2015** 60 (1), 112-117

15. Viscosity of $\{x\text{CH}_4 + (1 - x)\text{C}_3\text{H}_8\}$ with $x = 0.949$ for Temperatures between (200 and 423) K and Pressures between (10 and 31) MPa

Paul L. Stanwix, Clayton R. Locke, Thomas J. Hughes, Michael L. Johns, Anthony R. H. Goodwin, Kenneth N. Marsh, and Eric F. May
Journal of Chemical & Engineering Data **2015** 60 (1), 118-123

16. Sugar-Based Microemulsions as Templates for Nanostructured Materials: A Systematic Phase Behavior Study

Regina Schwering, David Ghosh, Reinhard Strey, and Thomas Sottmann
Journal of Chemical & Engineering Data **2015** 60 (1), 124-136

17. New Experimental Data and Reference Models for the Viscosity and Density of Squalane

Kurt A. G. Schmidt, Doug Pagnutti, Meghan D. Curran, Anil Singh, J. P. Martin Trusler, Geoffrey C. Maitland, and Mark McBride-Wright
Journal of Chemical & Engineering Data **2015** 60 (1), 137-150

18. Preparation of a Novel Supported Selenium Nanoparticles Adsorbent and Its Application for Copper Removal from Aqueous Solution

Lingyan Huang, Xing Tong, Yunzhi Li, Jiuwei Teng, and Yan Bai
Journal of Chemical & Engineering Data **2015** 60 (1), 151-160

19. Solubility Properties and Spectral Characterization of Dilute SO₂ in Binary Mixtures of Urea + Ethylene Glycol

Shaoyang Sun, Yanxia Niu, Fei Gao, Jun Shen, and Xionghui Wei
Journal of Chemical & Engineering Data **2015** 60 (1), 161-170

20. Viscosity and Density of Aqueous Solutions of Carbon Dioxide at Temperatures from (274 to 449) K and at Pressures up to 100 MPa

Mark McBride-Wright, Geoffrey C. Maitland, and J. P. Martin Trusler
Journal of Chemical & Engineering Data **2015** 60 (1), 171-180

21. Diffusion Coefficients of Carbon Dioxide in Brines Measured Using ¹³C Pulsed-Field Gradient Nuclear Magnetic Resonance

Shane P. Cadogan, Jason P. Hallett, Geoffrey C. Maitland, and J. P. Martin Trusler
Journal of Chemical & Engineering Data **2015** 60 (1), 181-184

22. Solubility, Metastable Zone Width, and Nucleation Kinetics of Sodium Dichromate Dihydrate

Liping Wang, Haitao Feng, Jiaoyu Peng, Naijin Dong, Wu Li, and Yaping Dong
Journal of Chemical & Engineering Data **2015** 60 (1), 185-191

23. Thermodynamic Data for the Modeling of Lanthanoid(III) Sequestration by Reduced Glutathione in Aqueous Solution

Rosalia Maria Cigala, Concetta De Stefano, Anna Irto, Demetrio Milea, and Silvio Sammartano
Journal of Chemical & Engineering Data **2015** 60 (1), 192-201

24. Vaporization, Sublimation, and Fusion Enthalpies of Some Saturated and Unsaturated Long Chain Fatty Acids by Correlation Gas Chromatography

Joe Wilson, Chase Gobble, and James Chickos
Journal of Chemical & Engineering Data **2015** 60 (1), 202-212