



Content

- 1. ACS Virtual Issue on Carbon Capture and Sequestration**
David Allen, Joan F. Brennecke, Aaron M. Scurto, Peter J. Stang, and D. Howard Fairbrother
Journal of Chemical & Engineering Data **2015** 60 (8), 2187-2187
DOI: 10.1021/acs.jced.5b00593
- 2. Molecular Dynamics Simulation of Transport and Structural Properties of CO₂ Using Different Molecular Models**
Haimin Zhong, Shuhui Lai, Jinyang Wang, Wenda Qiu, Hans-Dietrich Lüdemann, and Liuping Chen
Journal of Chemical & Engineering Data **2015** 60 (8), 2188-2196
DOI: 10.1021/je5009526
- 3. Characterization and Density Functional Theory Optimization of a Simultaneous Binder (FSG-XO) of Two Different Species Exploiting HOMO–LUMO Levels: Photoelectronic and Analytical Applications**
Milan K. Barman, Mousumi Chatterjee, Bhavya Srivastava, and Bhabatosh Mandal
Journal of Chemical & Engineering Data **2015** 60 (8), 2197-2208
DOI: 10.1021/je501013b
- 4. Effect of Hydrocarbon Chain and Amide Linkage on the Interfacial and Self-Assembly Properties of Nicotinic Acid Amphiphiles**
Aparna Roy, Monali Maiti, and Sumita Roy
Journal of Chemical & Engineering Data **2015** 60 (8), 2209-2218
DOI: 10.1021/je501051p
- 5. Isothermal Vapor–Liquid Equilibrium of the Ternary Mixture of 1,1,1,2-Tetrafluoroethane + 2,3,3,3-Tetrafluoroprop-1-ene + Dimethyl Ether at Temperatures from 253.15 K to 323.15 K**
Xiaohong Han, Zanjun Gao, Jun Lei, Bo Yang, Yang Zhao, and Guangming Chen
Journal of Chemical & Engineering Data **2015** 60 (8), 2219-2225
DOI: 10.1021/je501167d
- 6. Isobaric Heat Capacity of HFC-161 in the Liquid Phase at Temperatures up to 360.15 K and Pressures up to 5.5 MPa**
Yijian He, Rong Li, Neng Gao, Yi Wang, and Guangming Chen
Journal of Chemical & Engineering Data **2015** 60 (8), 2226-2231
DOI: 10.1021/acs.jced.5b00346
- 7. Thermodynamic and Spectral Studies of Molecular Interactions in Binary Liquid Mixtures of 1-Butoxy-2-propanol with 1-Alcohols**
Gyan Prakash Dubey and Prabhjot Kaur
Journal of Chemical & Engineering Data **2015** 60 (8), 2232-2239
DOI: 10.1021/acs.jced.5b00031
- 8. Measurement and Prediction of the Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (C_nEm)**
Paweł Góralski and Mariola Tkaczyk
Journal of Chemical & Engineering Data **2015** 60 (8), 2240-2247
DOI: 10.1021/acs.jced.5b00051
- 9. Solubility Measurement and Modeling for the NaCl–NH₄Cl–Monoethylene Glycol–H₂O System from (278 to 353) K**
Yan Zeng and Zhibao Li
Journal of Chemical & Engineering Data **2015** 60 (8), 2248-2255
DOI: 10.1021/acs.jced.5b00053
- 10. Solubility and Caloric Properties of Cinnarizine**

Raphael Paus, Elena Hart, Yuanhui Ji, and Gabriele Sadowski
Journal of Chemical & Engineering Data **2015** *60* (8), 2256-2261
DOI: 10.1021/acs.jced.5b00075

- 11. Preparation and Cationic Dye Adsorption of Novel Fe₃O₄ Supermagnetic/Thiacalix[4]arene Tetrasulfonate Self-Doped/Polyaniline Nanocomposite: Kinetics, Isotherms, and Thermodynamic Study**
Moslem Mansour Lakouraj, Rafieh-Sadat Norouzian, and Soheila Balo
Journal of Chemical & Engineering Data **2015** *60* (8), 2262-2272
DOI: 10.1021/acs.jced.5b00080
- 12. Determination and Correlation of Solubility of N-tert-Butylacrylamide in Seven Different Solvents at Temperatures between (279.15 and 353.15) K**
Xu Gao, Wei-Lan Xue, Zuo-Xiang Zeng, and Xin-ran Fan
Journal of Chemical & Engineering Data **2015** *60* (8), 2273-2279
DOI: 10.1021/acs.jced.5b00135
- 13. Liquid–Liquid Equilibria for the Water (1) + Acetic Acid (2) + Nopol (3) + Nopyl Acetate (4) Quaternary System at (298.15, 323.15, and 348.15) K and 85.8 kPa**
Juan M. González and Aída L. Villa
Journal of Chemical & Engineering Data **2015** *60* (8), 2280-2284
DOI: 10.1021/acs.jced.5b00144
- 14. Water Activity Measurements by the Isopiestic Method for the MCl–CaCl₂–H₂O (M = Na, K) Systems at 323.15 K**
Haijun Han, Lijiang Guo, Dongdong Li, Ouyang Dong, Yan Yao, Ning Zhang, and Dewen Zeng
Journal of Chemical & Engineering Data **2015** *60* (8), 2285-2290
DOI: 10.1021/acs.jced.5b00155
- 15. Experimental and Computational Thermodynamic Properties of (Benzyl Alcohol + Alkanols) Mixtures**
Razieh Sadat Neyband, Amin Yousefi, and Hosseinali Zarei
Journal of Chemical & Engineering Data **2015** *60* (8), 2291-2300
DOI: 10.1021/acs.jced.5b00162
- 16. Thermodynamic Behavior of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Iodide and Alcohols**
Sayeed Ashique Ahmed, Aninda Chatterjee, Banibrata Maity, and Debabrata Seth
Journal of Chemical & Engineering Data **2015** *60* (8), 2301-2307
DOI: 10.1021/acs.jced.5b00184
- 17. Comparative Study of Sodium Phosphate and Sodium Sulfate in Aqueous Solutions at (298.15 to 353.15) K**
Mohamed El Guendouzi and Mohammed Aboufaris
Journal of Chemical & Engineering Data **2015** *60* (8), 2308-2319
DOI: 10.1021/acs.jced.5b00203
- 18. Method for the Estimation of Standard Entropy of Crystal Phases at 298.15 K on the Limited Temperature Range of Heat Capacity Measurements**
Irina A. Uspenskaya and Leonid A. Kulikov
Journal of Chemical & Engineering Data **2015** *60* (8), 2320-2328
DOI: 10.1021/acs.jced.5b00217
- 19. Prediction and Experimental Measurement of Refractive Index in Ternary Hydrocarbon Mixtures**
Mohammed Yahya and M. Ziad Saghir
Journal of Chemical & Engineering Data **2015** *60* (8), 2329-2342
DOI: 10.1021/acs.jced.5b00251

- 20. Evaluation of Pure-Component Adsorption Properties of DD3R Based on the Langmuir and Sips Models**
Alessio Caravella, Pasquale F. Zito, Adele Brunetti, Enrico Drioli, and Giuseppe Barbieri
Journal of Chemical & Engineering Data **2015** *60* (8), 2343-2355
DOI: 10.1021/acs.jced.5b00252
- 21. Bovine Serum Albumin Adsorption on Gluteraldehyde Cross-Linked Chitosan Hydrogels**
Subrata Mondal, Cunben Li, and Kean Wang
Journal of Chemical & Engineering Data **2015** *60* (8), 2356-2362
DOI: 10.1021/acs.jced.5b00264
- 22. Viscosities of Liquid Cyclohexane and Decane at Temperatures between (303 and 598) K and Pressures up to 4 MPa Measured in a Dual-Capillary Viscometer**
Zhaohui Liu, J. P. Martin Trusler, and Qincheng Bi
Journal of Chemical & Engineering Data **2015** *60* (8), 2363-2370
DOI: 10.1021/acs.jced.5b00270
- 23. Liquid–Liquid Equilibrium Data for Fatty Systems Containing Monoacylglycerols and Diacylglycerols**
Simone Shiozawa, Larissa C. B. A. Bessa, Marcela C. Ferreira, Antonio J. A. Meirelles, and Eduardo A. C. Batista
Journal of Chemical & Engineering Data **2015** *60* (8), 2371-2379
DOI: 10.1021/acs.jced.5b00278
- 24. CO₂ Solubility in Hybrid Solvents Containing 1-Butyl-3-methylimidazolium Tetrafluoroborate and Mixtures of Alkanolamines**
Khalid Osman, Deresh Ramjugernath, and Christophe Coquelet
Journal of Chemical & Engineering Data **2015** *60* (8), 2380-2391
DOI: 10.1021/acs.jced.5b00273
- 25. Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K**
Jiafei Zhang, Paul S. Fennell, and J. P. Martin Trusler
Journal of Chemical & Engineering Data **2015** *60* (8), 2392-2399
DOI: 10.1021/acs.jced.5b00282
- 26. Densities, Viscosities, and Conductivities of the Imidazolium Ionic Liquids [Emim][Ac], [Emim][FAP], [Bmim][BETI], [Bmim][FSI], [Hmim][TFSI], and [Omim][TFSI]**
Andreas Nazet, Sophia Sokolov, Thomas Sonnleitner, Takashi Makino, Mitsuhiro Kanakubo, and Richard Buchner
Journal of Chemical & Engineering Data **2015** *60* (8), 2400-2411
DOI: 10.1021/acs.jced.5b00285
- 27. Molecular Simulation Studies on the Vapor–Liquid Equilibria of the cis- and trans-HCFO-1233zd and the cis- and trans-HFO-1336mzz**
Gabriele Raabe
Journal of Chemical & Engineering Data **2015** *60* (8), 2412-2419
DOI: 10.1021/acs.jced.5b00286
- 28. Transfer Properties of Glycylglycine from Water to Aqueous NaNO₃, NaClO₄, and Na₂SO₄ Solutions**
Chunli Liu, Li Zhou, Liqun Fan, and Chonggui Ren
Journal of Chemical & Engineering Data **2015** *60* (8), 2420-2425
DOI: 10.1021/acs.jced.5b00298
- 29. Liquid–Liquid Equilibria of Water + Ethanol + 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide Ternary System: Measurements and Correlation at Different Temperatures**
Amparo Cháfer, Javier de la Torre, Alicia Font, and Estela Lladosa

- 30. Sugaring-Out Effects of Sucrose and Glucose on the Liquid–Liquid Equilibria for the (Water + Acetone + 1-Butanol + Ethanol) System**
Shaoqu Xie, Suwen Zhang, Xueqing Qiu, Conghua Yi, Yun Hu, Fuhang Li, and Jinhua Quan
Journal of Chemical & Engineering Data 2015 60 (8), 2434-2441
DOI: 10.1021/acs.jced.5b00302
- 31. Solubility of Amorphous Clopidogrel Hydrogen Sulfate in Different Pure Solvents**
Yan Liu, Zhi-Peng Zhao, Jingbin Cui, and Guobin Ren
Journal of Chemical & Engineering Data 2015 60 (8), 2442-2446
DOI: 10.1021/acs.jced.5b00306
- 32. Bubble-Point Measurements of n-Butane + n-Octane and n-Butane + n-Nonane Binary Mixtures**
Elisabeth Mansfield and Stephanie L. Outcalt
Journal of Chemical & Engineering Data 2015 60 (8), 2447-2453
DOI: 10.1021/acs.jced.5b00308
- 33. Densities and Viscosities of Aqueous Alkaline Nitrate and Nitrite Solutions Used in Absorption Heat Pumps**
Gorg Abdelmassih and Xavier Esteve
Journal of Chemical & Engineering Data 2015 60 (8), 2454-2460
DOI: 10.1021/acs.jced.5b00103
- 34. Isothermal Vapor–Liquid Equilibrium (VLE) and Vapor–Liquid–Liquid Equilibrium (VLLE) Data for Two Binary Systems Containing Perfluorohexane with Carbon Monoxide or Hydrogen Sulfide at (293, 313, and 333) K**
Mulamba Marc Tshibangu, Alain Valtz, Caleb Narasigadu, Christophe Coquelet, and Deresh Ramjugernath
Journal of Chemical & Engineering Data 2015 60 (8), 2461-2468
DOI: 10.1021/acs.jced.5b00318
- 35. Solubility of Nonionic Hydrocarbon Surfactants with Different Hydrophobic Tails in Supercritical CO₂**
Qingzhao Shi, Lishuai Jing, Chongqiao Xiong, Chenyu Liu, and Weihong Qiao
Journal of Chemical & Engineering Data 2015 60 (8), 2469-2476
DOI: 10.1021/acs.jced.5b00345
- 36. Thermodynamic Properties of trans-1-Chloro-3,3,3-trifluoropropene (R1233zd(E)): Vapor Pressure, (p, ρ , T) Behavior, and Speed of Sound Measurements, and Equation of State**
María E. Mondéjar, Mark O. McLinden, and Eric W. Lemmon
Journal of Chemical & Engineering Data 2015 60 (8), 2477-2489
DOI: 10.1021/acs.jced.5b00348
- 37. Lamotrigine Solubility in Some Nonaqueous Solvent Mixtures at 298.2 K**
Afsaneh Farjami and Abolghasem Jouyban
Journal of Chemical & Engineering Data 2015 60 (8), 2490-2494
DOI: 10.1021/acs.jced.5b00355
- 38. Thermophysical Properties of Some Fatty Acids/Surfactants as Phase Change Slurries for Thermal Energy Storage**
Zhaoli Zhang, Yanping Yuan, Nan Zhang, and Xiaoling Cao
Journal of Chemical & Engineering Data 2015 60 (8), 2495-2501
DOI: 10.1021/acs.jced.5b00371
- 39. Solubility Measurement and Correlation for 2-Naphthaldehyde in Pure Organic Solvents and Methanol + Ethanol Mixtures**
Fang Zhang, Yaocun Tang, Long Wang, Li Xu, and Guoji Liu
Journal of Chemical & Engineering Data 2015 60 (8), 2502-2509

DOI: 10.1021/acs.jced.5b00377

40. Solubility and Thermodynamic Analysis of Tenoxicam in Different Pure Solvents at Different Temperatures

Faiyaz Shakeel, Nazrul Haq, Gamal A. Shazly, Fars K. Alanazi, and Ibrahim A. Alsarra

Journal of Chemical & Engineering Data **2015** 60 (8), 2510-2514

DOI: 10.1021/acs.jced.5b00382

41. Solubility of Tris(hydroxymethyl)aminomethane in Water + Methanol +1-Propanol Mixtures at Various Temperatures

Vahid Jouyban-Gharamaleki, Karim Jouyban-Gharamaleki, Jafar Soleymani, William E. Acree, Jr., Ernst Kenndler, and Abolghasem Jouyban

Journal of Chemical & Engineering Data **2015** 60 (8), 2515-2520

DOI: 10.1021/acs.jced.5b00396