



Content

- 1. Self-Diffusion in Molecular Fluids and Noble Gases: Available Data**
Octavio Suárez-Iglesias, Ignacio Medina, María de los Ángeles Sanz, Consuelo Pizarro, and Julio L. Bueno
Journal of Chemical & Engineering Data 2015 60 (10), 2757-2817
DOI: 10.1021/acs.jced.5b00323
- 2. Vapor–Liquid Equilibria of Cyclohexanone + 2-Cyclohexen-1-one and Cyclohexanol + 2-Cyclohexen-1-one, Validated in a Packed Column Distillation.**
David Lorenzo, Aurora Santos, and Arturo Romero
Journal of Chemical & Engineering Data 2015 60 (10), 2818-2826
DOI: 10.1021/je501135p
- 3. Dependence of Refractive Index on Concentration and Temperature in Electrolyte Solution, Polar Solution, Nonpolar Solution, and Protein Solution**
Chan-Yuan Tan and Yao-Xiong Huang
Journal of Chemical & Engineering Data 2015 60 (10), 2827-2833
DOI: 10.1021/acs.jced.5b00018
- 4. Solubilities of 5,10,15,20-Tetraphenylporphyrin and 5,10,15,20-Tetra(p-chlorophenyl)porphyrin in Binary N,N-Dimethylformamide + Water Solvent Mixtures**
Chunlin Li, Qinbo Wang, Binwei Shen, Zhenhua Xiong, and Chuxiong Chen
Journal of Chemical & Engineering Data 2015 60 (10), 2834-2842
DOI: 10.1021/acs.jced.5b00092
- 5. Solvent Extraction of Perrhenate from Sulfuric Acid Medium by Triisooctylamine**
Wei-jun Shan, Peng Cheng, Jun Li, Ying Xiong, Da-wei Fang, and Shu-liang Zang
Journal of Chemical & Engineering Data 2015 60 (10), 2843-2847
DOI: 10.1021/acs.jced.5b00188
- 6. Liquid–Liquid Equilibrium of Alcohols + Ammonium/Potassium/Sodium Acetate + Water Systems: Experimental and Correlation**
Sewn Cen Lo, Ramakrishnan Nagasundara Ramanan, Beng Ti Tey, Tau Chuan Ling, Pau Loke Show, and Chien Wei Ooi
Journal of Chemical & Engineering Data 2015 60 (10), 2848-2857
DOI: 10.1021/acs.jced.5b00200
- 7. Estimation of Langmuir and Sips Models Adsorption Parameters for NaX and NaY FAU Zeolites**
Pasquale F. Zito, Alessio Caravella, Adele Brunetti, Enrico Drioli, and Giuseppe Barbieri
Journal of Chemical & Engineering Data 2015 60 (10), 2858-2868
DOI: 10.1021/acs.jced.5b00215
- 8. Theoretical Studies on the Energetic Salts of Substituted 3,3'-Amino-N,N'-azo-1,2,4-triazoles: The Role of Functional Groups**
Xueli Zhang and Xuedong Gong
Journal of Chemical & Engineering Data 2015 60 (10), 2869-2878
DOI: 10.1021/acs.jced.5b00257

- 9. Activity Coefficient Measurements and Thermodynamic Modeling of (CaCl₂ + L-Alanine + Water) System Based on Potentiometric Determination at T = (298.2, 303.2, and 308.2) K**
Bahram Ghalami-Chooabar and Parya Mossayyebzadeh-Shalkoohi
Journal of Chemical & Engineering Data 2015 60 (10), 2879-2894
DOI: 10.1021/acs.jced.5b00260
- 10. Empirical Fundamental Equation of State for Phosgene Based on Molecular Simulation Data**
Gábor Rutkai and Jadran Vrabec
Journal of Chemical & Engineering Data 2015 60 (10), 2895-2905
DOI: 10.1021/acs.jced.5b00266
- 11. Investigations of the Chemical Potentials of Dissolved Water and H₂S in CO₂ Streams Using Molecular Dynamics Simulations and the Gibbs–Duhem Relation**
Bjørn Kvamme, Tatiana Kuznetsova, Sigvat Stensholt, and Sara Sjöblom
Journal of Chemical & Engineering Data 2015 60 (10), 2906-2914
DOI: 10.1021/acs.jced.5b00267
- 12. Thermodynamics and Kinetics of Heavy Metals Adsorption on Silica Particles Chemically Modified by Conjugated β -Ketoenol Furan**
Smaail Radi, Said Tighadouini, Mohamed El Massaoudi, Maryse Bacquet, Stéphanie Degoutin, Bertrand Revel, and Yahia N. Mabkhot
Journal of Chemical & Engineering Data 2015 60 (10), 2915-2925
DOI: 10.1021/acs.jced.5b00281
- 13. Solubility of Halogenated Hydrocarbons in Hydrophobic Ionic Liquids: Experimental Study and COSMO-RS Prediction**
Saleem S. AlSaleem, Waleed M. Zahid, Inas M. AlNashef, and Mohamed K. Hadj-Kali
Journal of Chemical & Engineering Data 2015 60 (10), 2926-2936
DOI: 10.1021/acs.jced.5b00310
- 14. Interionic Interactions of Aqueous Mixtures of Ionic Liquid 1-Hexyl-3-methylimidazolium Chloride with Phosphate Salts at T = (288.15 to 308.15) K: Volumetric, Acoustic and UV Absorption Studies**
Harsh Kumar and Chanda Chadha
Journal of Chemical & Engineering Data 2015 60 (10), 2937-2950
DOI: 10.1021/acs.jced.5b00326
- 15. Adsorption Equilibrium of N₂, CH₄, and CO₂ on MIL-101**
Yu Zhang, Wei Su, Yan Sun, Jia Liu, Xiuwu Liu, and Xiaojing Wang
Journal of Chemical & Engineering Data 2015 60 (10), 2951-2957
DOI: 10.1021/acs.jced.5b00327
- 16. Study of Apparent Molar Volumes for Ionic Liquid, 1-Ethyl-3-methyl Imidazolium Chloride in Aqueous Lithium Nitrate, Lithium Bromide, and Lithium Chloride Solutions at Temperatures (298.15 to 318.15) K**
Hamid Reza Rafiee and Farshid Frouzesh
Journal of Chemical & Engineering Data 2015 60 (10), 2958-2965
DOI: 10.1021/acs.jced.5b00329
- 17. High Pressure Solid–Liquid Equilibrium of Fatty Alcohols Binary Systems from 1-Dodecanol, 1-Tetradecanol, 1-Hexadecanol, and 1-Octadecanol**
Natália Daniele Dorighello Carareto, Mariana Conceição Costa, Antonio José Almeida Meirelles, and Jérôme Pauly
Journal of Chemical & Engineering Data 2015 60 (10), 2966-2973
DOI: 10.1021/acs.jced.5b00330
- 18. Aqueous Binary Lanthanide(III) Nitrate Ln(NO₃)₃ Electrolytes Revisited: Extended Pitzer and Bromley Treatments**

Sayandev Chatterjee, Emily L. Campbell, Doinita Neiner, Natasha K. Pence, Troy A. Robinson, and Tatiana G. Levitskaia

Journal of Chemical & Engineering Data **2015** *60* (10), 2974-2988

DOI: 10.1021/acs.jced.5b00392

19. Solvation of Basic and Neutral Amino Acids in Aqueous Electrolytic Solutions: Measurements and Modeling

Farid I. El-Dossoki and Maha M. El-Damarany

Journal of Chemical & Engineering Data **2015** *60* (10), 2989-2999

DOI: 10.1021/acs.jced.5b00393

20. Extraction Equilibrium of Hydrochloric Acid at Low Concentrations between Water and N235 in Isoamyl Alcohol Solution: Experiments and Simulation

Yunzhao Li, Xingfu Song, Shuying Sun, Yanxia Xu, and Jianguo Yu

Journal of Chemical & Engineering Data **2015** *60* (10), 3000-3008

DOI: 10.1021/acs.jced.5b00409

21. Conductometric Investigation of the Interaction of Natural and Synthetic Surfactant with Cationic Dye in Water–Alcohol Mixed Solvent

Sidra Tul-Muntaha and M. Nasiruddin Khan

Journal of Chemical & Engineering Data **2015** *60* (10), 3009-3017

DOI: 10.1021/acs.jced.5b00434

22. Phase Equilibria of the NaOH–NaBO₂–Na₂CO₃–H₂O System at 30 °C, 60 °C, and 100 °C

Shiyue Qin, Baowen Yin, Yifei Zhang, and Yi Zhang

Journal of Chemical & Engineering Data **2015** *60* (10), 3018-3023

DOI: 10.1021/acs.jced.5b00443

23. Solubility Isotherms of Gypsum, Hemihydrate, and Anhydrite in the Ternary Systems CaSO₄ + MSO₄ + H₂O (M = Mn, Co, Ni, Cu, Zn) at T = 298.1 K to 373.1 K

Wenlei Wang, Dewen Zeng, Hang Zhou, Xiaofu Wu, and Xia Yin

Journal of Chemical & Engineering Data **2015** *60* (10), 3024-3032

24. Solubility of Subcritical and Supercritical Propylene in the Semicrystalline Polyethylenes

Zhen Yao, Lin-jie Xu, Fang-jun Zhu, Yun-fei Zhang, Changchun Zeng, and Kun Cao

Journal of Chemical & Engineering Data **2015** *60* (10), 3033-3038

25. Solubility of Natural Gas Species in Ionic Liquids and Commercial Solvents: Experiments and Monte Carlo Simulations

Mahinder Ramdin, Sayee Prasaad Balaji, Ariana Torres-Knoop, David Dubbeldam, Theodoor Willem de Loos, and Thijs J. H. Vlugt

Journal of Chemical & Engineering Data **2015** *60* (10), 3039-3045

26. Measurement and Correlation of Derivatized Anthraquinone Solubility in Supercritical Carbon Dioxide

Ratna Surya Alwi and Kazuhiro Tamura

Journal of Chemical & Engineering Data **2015** *60* (10), 3046-3052

27. Solubilities of 3-Chlorophthalic Anhydride and 4-Chlorophthalic Anhydride in Different Pure Solvents

Chen Wang, Yongli Wang, Qiuxiang Yin, Zhao Xu, Ying Bao, Baohong Hou, Wei Liu, and Hongxun Hao

Journal of Chemical & Engineering Data **2015** *60* (10), 3053-3061

28. Correction to “Measurement and Correlation of the Solubility for 4,4'-Diaminodiphenylmethane in Different Solvents”

Yijie Deng, Li Xu, Xiaobo Sun, Liang Cheng, and Guoji Liu

Journal of Chemical & Engineering Data **2015** *60* (10), 3062-3062