

111

F 70



ELSEVIER

Volume 365, March 15 2014

ISSN 0378-3812

# **FLUID PHASE EQUILIBRIA**

**AN INTERNATIONAL JOURNAL**

# **FLUID PHASE EQUILIBRIA**

## CONTENTS

(Abstracted/Index in: *Curr. Contents/Eng. Technol. Appl. Sci. Curr. Contents/Phys. Chem. Earth Sci., Sci. Cit. Index, Phys. Abstr.*, ASCA, Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®)

**Full Length Article**

Vapor-liquid equilibria for binary system of 2,3,3,3-tetrafluoroprop-1-ene (HFO-1234yf) + isobutane (HC-600a) P. Hu, L.-X. Chen and Z.-S. Chen (Hefei, China) .....	1–4
Dielectric constant of dimethyl sulfoxide-monohydric alcohol mixture solution at the microwave frequency J. Guo-Zhu and Q. Jie (Chengdu, China) .....	5–10
Vapor-liquid equilibrium in the production of the ionic liquid, 1-hexyl-3-methylimidazolium bromide ([HMIm][Br]), in acetone D.L. Minnick and A.M. Scurto (Lawrence, KS, USA) .....	11–19
Experimental and modeling study of the phase behavior of synthetic crude oil + CO <sub>2</sub> S.Z. Al Ghafri, G.C. Maitland and J.P.M. Trusler (London, UK) .....	20–40
Critical behavior of dielectric permittivity in the vicinity of nematic-isotropic and smectic-nematic phase transitions in smectogenic binary mixtures S.K. Sarkar and M.K. Das (Siliguri, India) .....	41–49
Liquid-liquid equilibrium for systems of glycerol and glycerol tert-butyl ethers J. Liu, Y. Yuan, Y. Pan, Z. Huang and B. Yang (Xi'an, PR China) .....	50–57
Solubility and solution thermodynamics of myo-inositol in (water + acetic acid) binary solvent mixtures Y. Hu, W. Zhi, M. Liang, Z. Cao and W. Yang (Nanjing, China) .....	58–63
Phase equilibrium and crystallographic structure of clathrate hydrate formed in argon + 2,2-dimethylbutane + water system K. Murayama (Yokohama, Japan), S. Takeya (Tsukuba, Japan) and R. Ohmura (Yokohama, Japan) .....	64–67
Investigation of thermal behavior of graphite-supported Ag nanoclusters of different sizes using molecular dynamics simulations H. Akbarzadeh, H. Yaghoubi and S. Salemi (Sabzevar, Iran) .....	68–73
Molar heat capacities of aqueous 2-amino-2-ethyl-1,3-propanediol solutions and their ternary mixtures containing piperazine or lithium salts R.W. Olivia (Chung Li, Taiwan, ROC), R.B. Leron (Chung Li, Taiwan, ROC and Manila, Philippines) and M.-H. Li (Chung Li, Taiwan, ROC) .....	74–79
Solubility of CO <sub>2</sub> in aqueous mixtures of monoethanolamine and dicyanamide-based ionic liquids F. Xu (Beijing, PR China and Zhengzhou, PR China), H. Gao, H. Dong, Z. Wang, X. Zhang (Beijing, PR China), B. Ren (Zhengzhou, PR China) and S. Zhang (Beijing, PR China) .....	80–87
Ternary (liquid-liquid) equilibrium data of furfuryl alcohol with organic solvents at T = 298.2 K: Experimental results and thermodynamic models T. Wongsawa (Bangkok, Thailand), M. Hronec, T. Soták (Bratislava, Slovakia), N. Leepipatpiboon, U. Pancharoen and S. Phatanasri (Bangkok, Thailand) .....	88–96
Phase behavior of binary mixture for the isoalkyl acetate in supercritical carbon dioxide S.-D. Yoon, C.-R. Kim and H.-S. Byun (Yeosu, Jeonnam, South Korea) .....	97–105
Experimental and theoretical study of CO <sub>2</sub> solubility in N-methyl-2-pyrrolidone (NMP) M.R. Bohloul, A. Vatani (Tehran, Iran) and S.M. Peyghambarzadeh (Mahshahr, Iran) .....	106–111
The role of monomer fraction data in association theories—Can we improve the performance for phase equilibrium calculations? I. Tsivintzelis, D. Bøgh, E. Karakatsani and G.M. Kontogeorgis (Lyngby, Denmark) .....	112–122
Using the NRTL model with the Vidal equation of state EOS-q <sup>E</sup> formulation for vapor/liquid equilibrium calculations M.R. Urdaneta P. (Maracaibo, Venezuela) .....	123–132
Liquid-liquid equilibria of 1-octyl-3-methylimidazolium hexafluorophosphate with 1-propanol or tert-butanol in the critical region Z. Cui, Y. Guo (Lanzhou, China), T. Yin (Shanghai, China), D. Fan, P. Zheng (Lanzhou, China) and W. Shen (Lanzhou, China and Shanghai, China) .....	133–140

**Short Communication**

Using genetic algorithm (GA) and particle swarm optimization (PSO) methods for determination of interaction parameters in multicomponent systems of liquid-liquid equilibria M. Asgarpour Khansary and A. Hallaji Sani (Tehran, Iran) .....	141–145
--	---------

