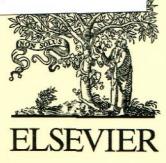


F70

Volume 344, April 25 2013

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, SciVerse Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®*)

**Full Length Articles**

Isobaric vapor-liquid equilibrium data of the binary systems of octane with p, o, m-xylene at 20 kPa S. Yang, X. Wang, Y. Zhu, M. Qiao and N. Chen (Xinxiang, PR China) .....	1-5
"Green Meets Green" - Sustainable solutions of imidazolium and phosphonium ionic liquids with poly(ethylene glycol): Solubility and phase behavior M.S. Calado (Lisboa, Portugal), G.R. Ivanis, J.M. Vuksanovic, M.Lj. Kijevcanin, S.P. Serbanovic (Belgrade, Serbia) and Z.P. Visak (Lisboa, Portugal) .....	6-12
Study of the solubility in Na-Ba-Cl-H <sub>2</sub> O, Na-Ba-H <sub>2</sub> PO <sub>2</sub> -H <sub>2</sub> O, Na-Cl-H <sub>2</sub> PO <sub>2</sub> -H <sub>2</sub> O, and Ba-Cl-H <sub>2</sub> PO <sub>2</sub> -H <sub>2</sub> O ternaries, and in Na <sup>+</sup> , Ba <sup>2+</sup> /Cl <sup>-</sup> , (H <sub>2</sub> PO <sub>2</sub> ) <sup>-</sup> //H <sub>2</sub> O reciprocal quaternary system at 0 °C H. Erge (Van, Turkey), V. Adiguzel and V. Alisoglu (Kars, Turkey) .....	13-18
Solubility of dimethyl fumarate in water + (methanol, ethanol, 1-propanol) from (278.15 to 333.15) K Y. Kai, Y. Hu, R. Tang, Z. Meng and W. Yang (Nanjing, China) .....	19-26
Measurement and correlation of the solubilities of luteolin and rutin in five imidazole-based ionic liquids K. Yang, Y. Song, L. Ge, J. Su, Y. Wen and Y. Long (Nanning, China) .....	27-31
Azeotrope breaking for the system ethyl tert-butyl ether (ETBE) + ethanol at 313.15 K and excess properties at 298.15 K for mixtures of ETBE and ethanol with phosphonium-based ionic liquids I.-C. Hwang, R.-H. Kwon and S.-J. Park (Daejeon, Republic of Korea) .....	32-37
Solubility of propanoic acid 3-(hydroxyphenylphosphinyl)-sodium salts in different solvent D. Jia (Beijing, China and Binzhou, China), L. Wang, X. Shao (Beijing, China) and C. Li (Binzhou, China) .....	38-44
Modeling CO <sub>2</sub> and H <sub>2</sub> S solubilities in aqueous alkanolamine solutions via an extension of the Cubic-Two-State equation of state P. Téllez-Arredondo and M. Medeiros (Ciudad Universitaria, Mexico) .....	45-58
Vapour-liquid equilibria in binary and ternary systems composed of 2,3-dimethylbutane, diisopropyl ether, and 3-methyl-2-butane at 313.15, 323.15 and 313.15 K J. Pavlíček, A. Andrová, G. Bogdánová and I. Wichterle (Praha, Czech Republic) .....	59-64
Solubility of dilute SO <sub>2</sub> in 1,4-dioxane, 15-crown-5 ether, polyethylene glycol 200, polyethylene glycol 300, and their binary mixtures at 308.15 K and 122.66 kPa Y. Niu (Beijing, China), F. Gao (Huhhot, China), S. Sun, J. Xiao and X. Wei (Beijing, China) .....	65-70
Binary and ternary solubility of amino- and nitro-benzoic acids in supercritical carbon dioxide Y. Li, Z. Tang, J. Jin and Z. Zhang (Beijing, China) .....	71-78
Isobaric vapor-liquid equilibrium data for the binary system methyl acetate + isopropyl acetate and the quaternary system methyl acetate + methanol + isopropanol + isopropyl acetate at 101.3 kPa L. Xiao, Q.-l. Wang, H.-x. Wang and T. Qiu (Fuzhou, China) .....	79-83
Isothermal vapor-liquid equilibrium of R170 + n-perfluorooctane at 308-338 K: Measurement, equation of state modelling, and molecular simulation P. Nandi, S. Moodley and D. Ramjugernath (Durban, South Africa) .....	84-91
Application of modified PHSC model in prediction of phase behavior of single and mixed electrolyte solutions M. Valavi, M.R. Dehghani and R. Shahriari (Tehran, Iran) .....	92-100
Measurements and Dubinin-Astakhov correlation of adsorption equilibria of toluene, acetone, n-hexane, n-decane and methanol solutes in supercritical carbon dioxide on activated carbon at temperature from 313 to 353 K and at pressure from 4.2 to 15.0 MPa I. Ushiki, M. Ota, Y. Sato and H. Inomata (Sendai, Japan) .....	101-107
Phase equilibrium for ionic semiclathrate hydrate formed with CO <sub>2</sub> , CH <sub>4</sub> , or N <sub>2</sub> plus tetrabutylphosphonium bromide T. Suginaka, H. Sakamoto, K. Iino, Y. Sakakibara and R. Ohmura (Yokohama, Japan) .....	108-111
Solubility of ethylene in toluene, norbornene, and toluene + norbornene mixture Y. Sato, N. Hosaka, H. Inomata (Sendai, Japan) and K. Kanaka (Shizuoka, Japan) .....	112-116
A new optimization method for parameter determination in modeling solid solubility in supercritical CO <sub>2</sub> J.-h. Li, Z. Huang, J.-l. Wei and L. Xu (Tianjin, PR China) .....	117-124
Liquid phase PVTx properties of binary mixtures of (water + ethylene glycol) in the range from 278.15 to 323.15 K and from 0.1 to 100 MPa. I. Experimental results, partial and excess thermodynamics properties G.I. Egorov, D.M. Makarov and A.M. Kolker (Ivanovo, Russia) .....	125-138
Predictive correlations for liquid heat capacity - including the critical region N. Dadgostar and J.M. Shaw (Edmonton, Canada) .....	139-151

