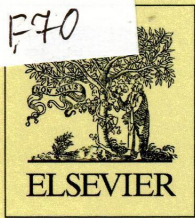


1001  
F70

Volume 384, December 25 2014

ISSN 0378-3812



# FLUID PHASE

# EQUILIBRIA

AN INTERNATIONAL JOURNAL

# FLUID PHASE

# EQUILIBRIA

## CONTENTS

(Abstracted/Indexed 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 Articles**

- A chemical structure based model for the estimation of refractive indices of organic compounds  
F. Gharagheizi, P. Ilani-Kashkouli (Durban, South Africa and Buinzahra, Iran), A. Kamari (Durban, South Africa), A.H. Mohammadi and D. Ramjugernath (Durban, South Africa and Paris, France)..... 1–13
- On the isobaric specific heat capacity of natural gas  
A. Jarrahian (Tehran, Iran), H.R. Karami (Kermanshah, Iran) and E. Heidaryan (Shiraz, Iran)..... 16–24
- Thermodynamic properties of cyclohexane–methanol liquid mixture from shear viscosity measurements  
N.El Hammami (Bizerte, Tunisia), M. Bouanz and A. Toumi (Bizerte, Tunisia and Tunis, Tunisia)..... 25–35
- Tris(2-Ethylhexyl) trimellitate (TOTM) a potential reference fluid for high viscosity. Part II: Density measurements at temperatures from (293 to 373) K and pressures up to 68 MPa  
J.C.F. Diogo, H.M.N.T. Avelino, F.J.P. Caetano and J.M.N.A. Fareleira (Lisbon, Portugal)..... 36–42
- Evaluation and extrapolation of the solubility of H<sub>2</sub> and CO in *n*-alkanes and *n*-alcohols using molecular simulation  
K.R. Hinkle (Chicago, IL, USA), P.M. Mathias (Aliso Viejo, CA, USA) and S. Murad (Chicago, IL, USA)..... 43–49
- Tris(2-ethylhexyl) trimellitate (TOTM) a potential reference fluid for high viscosity. Part I: Viscosity measurements at temperatures from (303 to 373) K and pressures up to 65 MPa, using a novel vibrating-wire instrument  
J.C.F. Diogo, H.M.N.T. Avelino, F.J.P. Caetano and J.M.N.A. Fareleira (Lisbon, Portugal)..... 50–59
- Novel equilibrium headspace gas chromatographic technique for the measurement of noncovalent association and partition of *n*-alkylbenzenes in water/*n*-dodecane and water/1-octanol systems at low phase ratio without phase separation  
M. Eljack and A. Hussam (Fairfax, VA, USA)..... 60–67
- Inclusion complexes of hydroxypropyl- $\beta$ -cyclodextrin with novel cytotoxic compounds: Solubility and thermodynamic properties  
M.V. Ol'khovich, A.V. Sharapova (Ivanovo, Russia), S.N. Lavrenov (Moscow, Russia), S.V. Blokhina (Ivanovo, Russia) and G.L. Perlovich (Ivanovo, Russia and Chernogolovka, Russia)..... 68–72
- Study on formation of unstable clathrate-like water molecules at freezing/melting temperatures of water and salty water  
S. Mahmood Fatemi Sh. and M. Foroutan (Tehran, Iran)..... 73–81
- MPP-UNIFAC, a predictive activity coefficient model for polyphenols  
D. Méndez Sevilano, L.A.M. van der Wielen (Delft, The Netherlands), N. Hooshyar (Vlaardingen, The Netherlands) and M. Ottens (Delft, The Netherlands)..... 82–88
- Thermodynamic behaviour of second generation biofuels: Vapour–liquid equilibria and excess enthalpies of the binary mixtures 2-pentanol and *n*-heptane or 2,2,4-trimethylpentane  
A. Moreau, J.J. Segovia, R.M. Villamañán and M.Carmen Martín (Valladolid, Spain)..... 89–94
- Equilibrium conditions for clathrate hydrates formed from carbon dioxide or ethane in the presence of aqueous solutions of 1,4-dioxane and 1,3-dioxolane  
T. Maekawa (Tsukuba, Japan)..... 95–99
- Viscosity of gaseous ethyl fluoride (HFC-161)  
S. Lv, X. Zhao, C. Yao, W. Wang (Xi'an, China) and Z. Guo (Zhejiang, China)..... 100–105
- Sodium sulfate solubility in (water + ethanol) mixed solvents in the presence of hydrochloric acid: Experimental measurements and modeling  
J.C. Ojeda Toro, I. Dobrosz-Gómez and M.Á. Gómez García (Manizales, Colombia)..... 106–113
- Modeling of liquid–liquid equilibrium in the quinary system of water, acetone, *n*-butanol, ethanol, and ionic liquid  
W. Kamiński, A. Górak and A. Kubiczek (Wolczanska, Poland)..... 114–121
- Mutual solubilities of hydrocarbon–water systems with F-SAC  
L.F.K. Possani, R.L. Simões, P.B. Staudt and R. de P. Soares (Porto Alegre, Brazil)..... 122–133
- Isothermal vapor–liquid equilibrium for binary mixtures containing furfural and its derivatives  
W.-P. Tai, H.-Y. Lee and M.-J. Lee (Taipei, Taiwan)..... 134–142
- Correlation of solubility of hexamethylene-1,6-bisthiou sulphate disodium salt dihydrate versus dielectric constants of water + ethanol mixtures  
L. Song, H. Guo, Y. Xu, Z. Wei, X. Zhang (Harbin, PR China), J. Ji (Jingdezhen, PR China) and C. Yang (Harbin, PR China).... 143–149

**Corrigendum**

- Corrigendum to: Considering the dispersive interactions in the COSMO-SAC model for more accurate predictions of fluid phase behavior [Fluid Phase Equilib. 367 (2014) 109–116]  
C.-M. Hsieh (Jhongli, Taiwan), S.-T. Lin (Taipei, Taiwan) and J. Vrabec (Paderborn, Germany)..... 14–15

