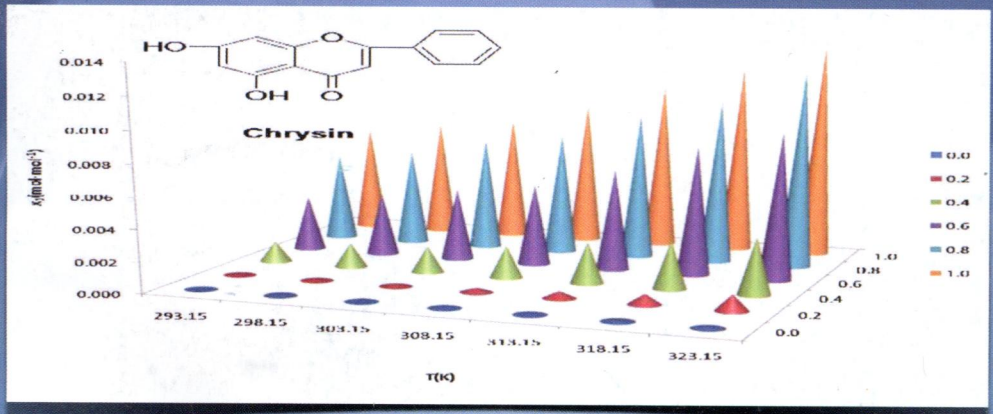
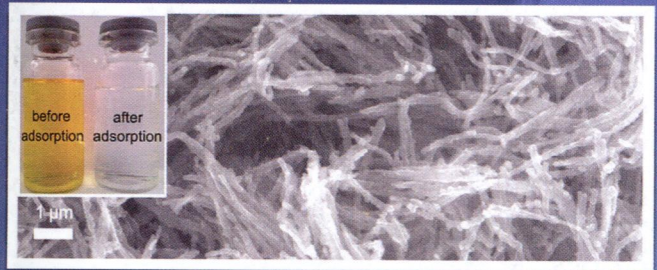
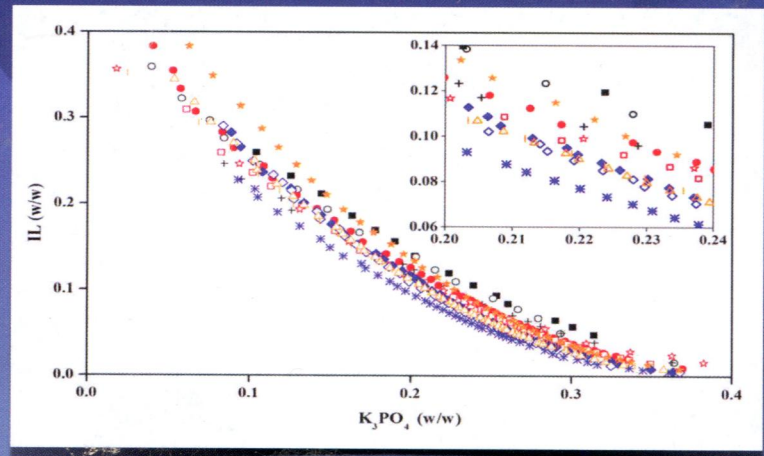
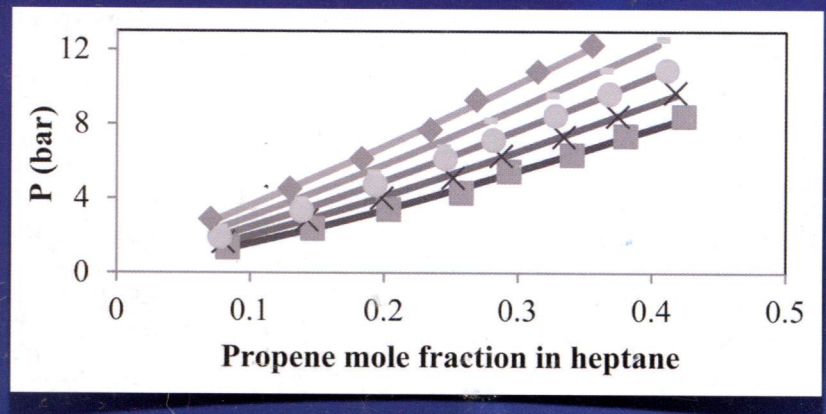


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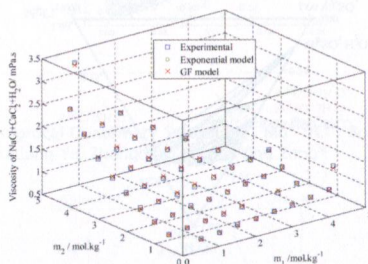
**ON THE COVER:** The images shown on the cover were taken from papers in this issue: (top) Comparison of calculated bubble pressure data from the Peng–Robinson cubic equation of state (solid line) and the obtained experimental data at different temperatures for the propene + heptane binary system (see DOI: 10.1021/je5002347). (middle left) SEM image of polypyrrole-sepiolite nanofibers used for Cr(VI) removal from aqueous solutions (see DOI: 10.1021/je500319a). (middle right) Phase diagram for  $K_3PO_4$  and selected ionic liquids with different concentrations of DMSO at 298.2 K and 0.1 MPa indicating the improved ability of an ionic liquid to form aqueous biphasic systems with the addition of polar solvents at different concentrations. (see DOI: 10.1021/je400794m). (bottom) Plot of experimental data of chrysin in aqueous mixtures of ethanol and water over the temperature range of 293.15 K to 323.15 K. The solubility of chrysin increases with an enrichment in ethanol concentration and an increase in temperature (see DOI: 10.1021/je5001654).

## Articles

2133

[dx.doi.org/10.1021/je500070k](http://dx.doi.org/10.1021/je500070k)

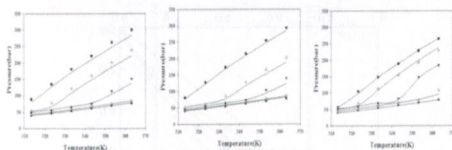
**Viscosity and Density of Ternary Solution of Calcium Chloride + Sodium Chloride + Water from  $T = (293.15 \text{ to } 323.15) \text{ K}$**   
 Hazim Qiblawey,\* Mohammad Arshad, Ahmed Easa, and Mert Atilhan\*



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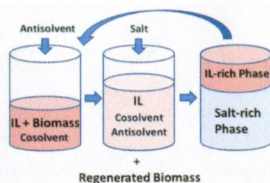
[dx.doi.org/10.1021/je400715b](http://dx.doi.org/10.1021/je400715b)

**Phase Behavior of Poly(D-lactic acid), Dichloromethane, and Carbon Dioxide Ternary Mixture Systems at High Pressure**  
 Jungmin Gwon, Soo Hyun Kim, Hun Yong Shin, and Hwayong Kim\*



## Ionic Liquid-Based Aqueous Biphasic Systems with Controlled Hydrophobicity: The Polar Solvent Effect

Jing Gao, Li Chen, Yun Xin, and Zongcheng Yan\*

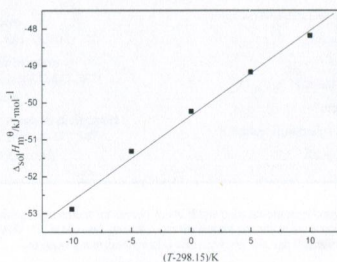


2159

dx.doi.org/10.1021/je4010432

Determination of the Molar Enthalpy of Solution for Ionic Liquid  $[C_5mim][OAc]$  (1-pentyl-3-methylimidazolium acetate) in the Temperature Range from 288.15 to 308.15 K

Zhiheng Zhang, Qiubo Zhang, Fang Tian, Wei Guan,\* and Jiazhen Yang

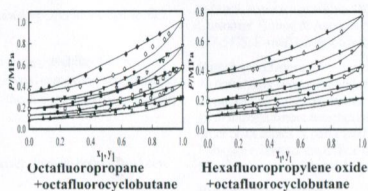


2164

dx.doi.org/10.1021/je401123k

## Measurement of Vapor–Liquid Equilibria for the Binary Mixture of Octafluoropropane and Hexafluoropropylene Oxide Containing Octafluorocyclobutane

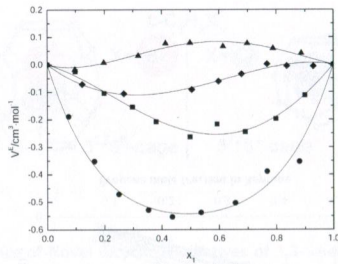
Young Lae Kim,\* Sung Jin Park, HoYun Choi, Jong-min Baek, Han Dock Song, Sung Jin Jung, and Kun Jong Lee





### Density, Viscosities, and Excess Properties for Binary Mixtures of Sulfolane + Alcohols and Sulfolane + Glycols at Different Temperatures

Francisca Maria Rodrigues Mesquita, Filipe Xavier Feitosa, Martin Aznar, Hosiberto B. de Sant'Ana,\* and Rílvia S. Santiago-Aguiar

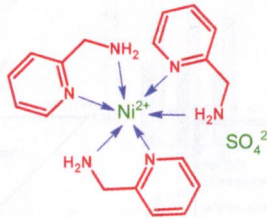


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dx.doi.org/10.1021/je500164h

### Complexation of Nickel with 2-(Aminomethyl)pyridine at High Zinc Concentrations or in a Nonaqueous Solvent Mixture

Markku Laatikainen,\* Katri Laatikainen, Satu-Pia Reinikainen, Helena Hyvönen, Catherine Branger, Heli Siren, and Tuomo Sainio

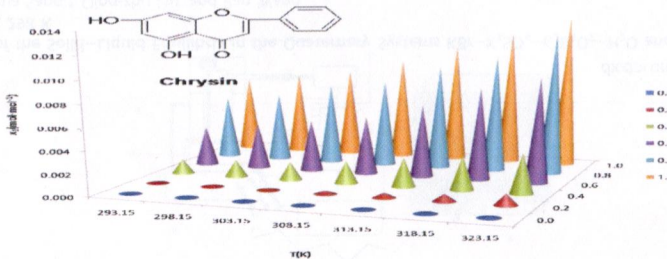


2215

dx.doi.org/10.1021/je5001654

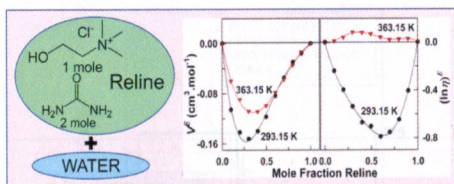
### Solubility of Chrysin in Ethanol and Water Mixtures

Li Zhou, Peipei Zhang, Guangde Yang, Rong Lin, Weirong Wang, Tingting Liu, Liqin Zhang, and Jiye Zhang\*



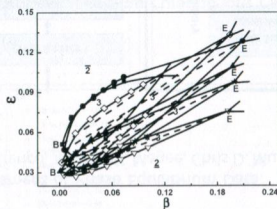
### Densities and Viscosities of (Choline Chloride + Urea) Deep Eutectic Solvent and Its Aqueous Mixtures in the Temperature Range 293.15 K to 363.15 K

Anita Yadav and Siddharth Pandey\*



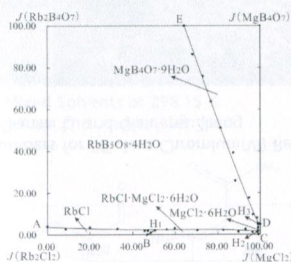
### Interfacial Composition, Solubility, and Solubilization Capacity of Microemulsions Containing Cationic Gemini and Anionic Surfactants

Zhongchun Liu, Jinling Chai,\* Ziqiang Chai, Ningning Liu, Haihui Chai, and Hengming Zhang



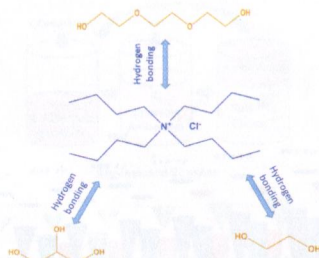
### Phase Equilibria for the Aqueous Reciprocal Quaternary System $\text{Rb}^+$ , $\text{Mg}^{2+}/\text{Cl}^-$ , Borate– $\text{H}_2\text{O}$ at 348 K

Qinghong Yin, Pengtao Mu, Qi Tan, Xudong Yu, Zhongquan Li, and Ying Zeng\*



### Tetrabutylammonium Chloride Based Ionic Liquid Analogues and Their Physical Properties

Farouq S. Mjalli,\* Jamil Naser, Baba Jibril, Vahid Alizadeh, and Zaharaddeen Gano

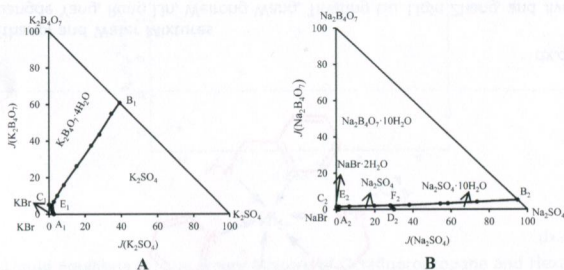


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dx.doi.org/10.1021/je5002363

### Measurements of the Solid-Liquid Equilibria in the Quaternary Systems $\text{KBr-K}_2\text{SO}_4\text{-K}_2\text{B}_4\text{O}_7\text{-H}_2\text{O}$ and $\text{NaBr-Na}_2\text{SO}_4\text{-Na}_2\text{B}_4\text{O}_7\text{-H}_2\text{O}$ at 298 K

Rui-zhi Cui, Shi-hua Sang,\* Qing-zhu Liu, and Pan Wang

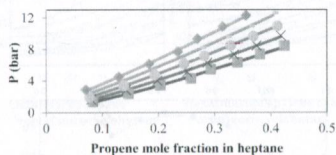


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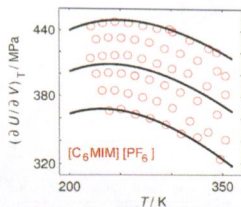
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### Experimental and Modeling of the Propene Solubility in the Heptane and Methylbenzene Solvents

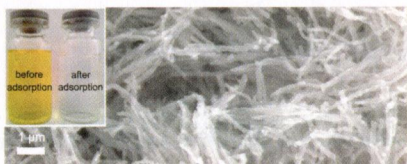
Ali Dashti,\* Seyed Hossein Mazloumi, Ali Bakhshi Ani, and Amir Akbari



Low Temperature Densities from (218 to 364) K and up to 50 MPa in Pressure and Surface Tension for Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide and Dicyanamide and 1-Hexyl-3-methylimidazolium Hexafluorophosphate  
Jaroslav Klomfar, Monika Součková, and Jaroslav Pátek\*

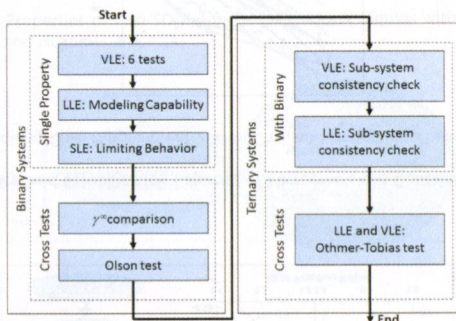


Sepiolite Fiber Oriented-Polypyrrole Nanofibers for Efficient Chromium(VI) Removal from Aqueous Solution  
Jun Chen,\* Xiaoqin Hong, Qingdong Xie, Diankai Li, and Qianfeng Zhang



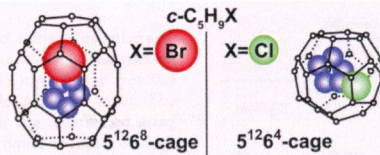
Algorithmic Framework for Quality Assessment of Phase Equilibrium Data

Jeong Won Kang, Vladimir Diky, Robert D. Chirico, Joseph W. Magee, Chris D. Muzny, Andrei F. Kazakov, Kenneth Kroenlein, and Michael Frenkel\*

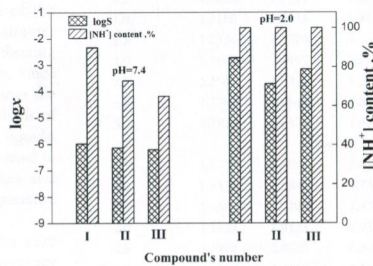
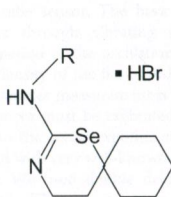




**Thermodynamic Stability Boundaries and Structures of Methane + Monohalogenated Cyclopentane Mixed Hydrates**  
 Yuuki Matsumoto, Hiroaki Matsukawa, Fumitaka Kamo, Young Bae Jeon, Yoshito Katsuta, Tatsuya Bando, Takashi Makino, Takeshi Sugahara,\* and Kazunari Ohgaki

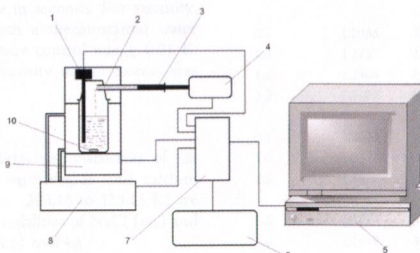


**Solubility and Solution Thermodynamics of Novel Bicyclic Derivatives of 1,3-Selenazine in Biologically Relevant Solvents**  
 Svetlana V. Blokhina,\* Tatyana V. Volkova, Marina V. Ol'khovich, Angelika V. Sharapova, Alexey N. Proshin, and German L. Perlovich



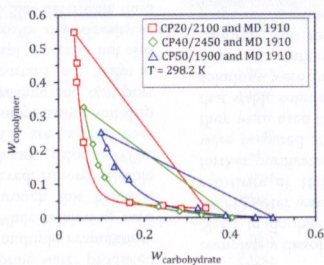
**Solubility Determination of Tris(hydroxymethyl)aminomethane in Water + Methanol Mixtures at Various Temperatures Using a Laser Monitoring Technique**

Vahid Jouyban-Gharamaleki, Karim Jouyban-Gharamaleki, Jafar Soleymani, William E. Acree Jr., and Abolghasem Jouyban\*



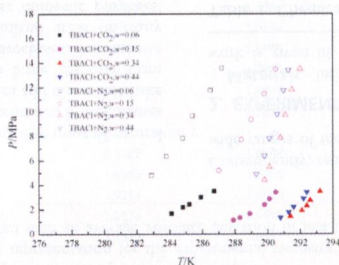
### Liquid–Liquid Equilibrium of Aqueous Biphasic Systems Containing Ethylene Oxide–Propylene Oxide Block Copolymers and Maltodextrins

Elias S. Monteiro Filho, Pedro A. Pessôa Filho,\* and Antonio José A. Meirelles



### Phase Equilibrium Data of the Double Tetrabutylammonium Chloride Plus Carbon Dioxide or Nitrogen Semiclathrate Hydrate

Ling-Li Shi, De-Qing Liang,\* and Neng-You Wu



### Dilution Enthalpies and Enthalpic Pairwise Self-Interactions of Nicotinamide and Isonicotinamide in (Dimethylformamide + Water) and (Dimethyl Sulfoxide + Water) Mixed Solvents at 298.15 K

Nan Chen, Zhao-Peng Jia, Hua-Qin Wang, Li-Yuan Zhu, and Xin-Gen Hu\*

