

ON THE COVER: The images shown on the cover were taken from papers in this issue: (left top) Solubility of ibuprofen in water-ethanol mixtures at different temperatures (see DOI: 10.1021/je400819z). Inaccuracies in experimental enthalpies of formation of aliphatic nitro compounds and nitramines were assessed with the use of the Gaussian-4 theory (right top) (see DOI: 10.1021/je500440y). (left bottom) Liquid-liquid equilibrium of the water + benzyl alcohol+ benzaldehyde system at different temperatures (see DOI: 10.1021/je500439z). (right bottom) The solubility of L-valine in the studied binary mixed solvents increases with increasing temperature and decreases with the rise of mass concentration of nonaqueous solvent in the binary aqueous solution (see DOI: 10.1021/je500255d).

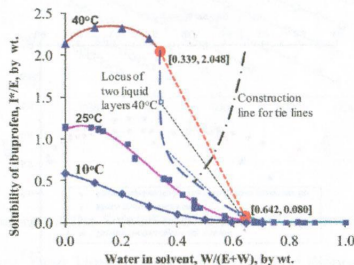
Articles

2699

dx.doi.org/10.1021/je400819z

Effect of Solvent Composition and Temperature on the Solubility of Ibuprofen in Aqueous Ethanol

Abdur Rashid, Edward T. White,* Tony Howes, James D. Litster, and Ivan Marziano

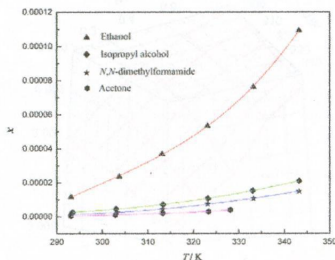


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dx.doi.org/10.1021/je500035r

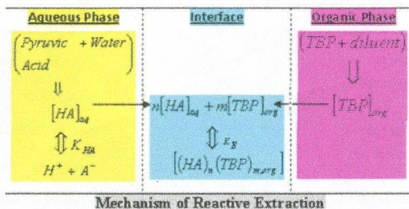
Measurement and Correlation of the Solubilities of L-Valine in Water, Ethanol, *N,N*-Dimethylformamide, Acetone, and Isopropyl Alcohol between (293.15 and 343.15) K

Chuntao Zhang,* Bangyu Liu, Xin Wang, and Hairong Wang



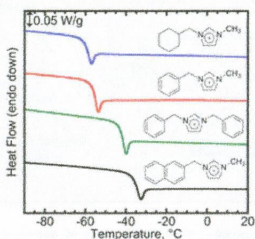
Extraction Equilibria of Pyruvic Acid Using Tri-*n*-butyl Phosphate: Influence of Diluents

Dharm Pal* and Amit Keshav*



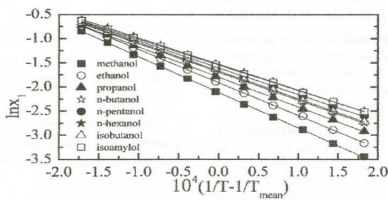
Thermophysical Properties of Imidazolium-Based Ionic Liquids: The Effect of Aliphatic versus Aromatic Functionality

Ran Tao, George Tamas, Lianjie Xue, Sindee L. Simon,* and Edward L. Quitevis*



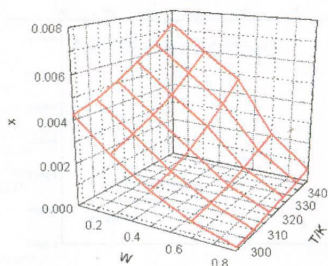
Determination and Correlation of Solubilities of Lauric Acid in Eight Alcohols

Zhi-Hong Yang, Zuo-Xiang Zeng,* Li Sun, Wei-Lan Xue,* and Nan Chen



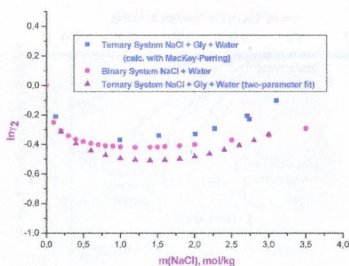
Measurement and Correlation of Solubility of L-Valine in Water + (Ethanol, *N,N*-Dimethylformamide, Acetone, Isopropyl Alcohol) from 293.15 K to 343.15 K

Chuntao Zhang,* Bangyu Liu, Xin Wang, Hairong Wang, and Haitao Zhang



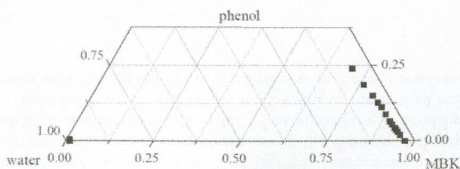
Osmotic Coefficients and Activity Coefficients in Aqueous Aminoethanoic Acid–NaCl Mixtures at 298.15 K

Elena N. Tsurko,* Roland Neueder, Rainer Müller, and Werner Kunz



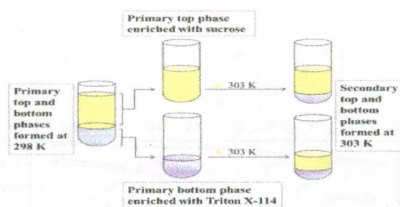
Liquid–Liquid Equilibria for Ternary Systems: Methyl Butyl Ketone + Phenol + Water and Methyl Butyl Ketone + Hydroquinone + Water at 298.15 K and 323.15 K

Yun Chen, Zhuo Wang,* and Libo Li



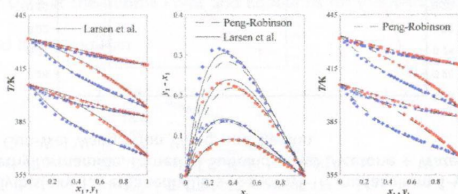
Liquid–Liquid Equilibrium of Primary and Secondary Aqueous Two-Phase Systems Composed of Sucrose + Triton X-114 + Water at Different Temperatures

Subbarayalu Ramalakshmi, Ramakrishnan Nagasundara Ramanan,* Arbakariya B. Ariff, and Chien Wei Ooi*



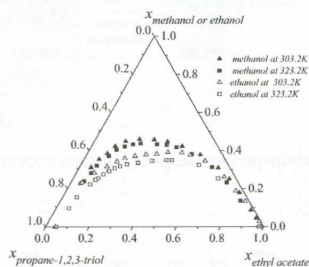
Experimental Vapor–Liquid Equilibria Data of Methyl Acetate or Ethyl Acetate with 2-Butanol at 0.3 MPa and 0.6 MPa. Quality Assessment and Predictions

Pedro Susial,* Rodrigo Susial, Víctor D. Castillo, Esteban J. Estupiñan, José J. Rodríguez-Henríquez, and José C. Apolinario

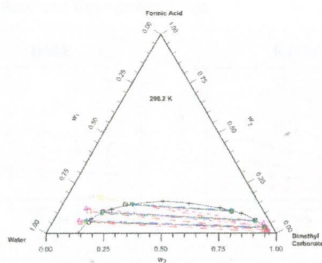


Liquid–Liquid Equilibrium in Mixtures Containing Propane-1,2,3-triol and Mixtures Containing Vegetable Oils at Atmospheric Pressure

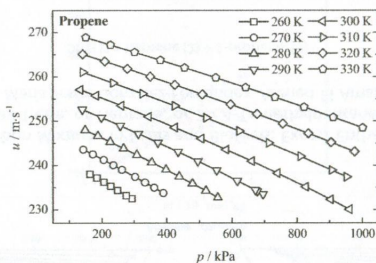
Alfonsina Ester Andreatta* and Andrés Arposio



Liquid Phase Equilibria of Water + Formic Acid + Dimethyl Carbonate Ternary System at Several Temperatures
Erol Ince,* Melisa Lalikoglu, and Dana Constantinescu

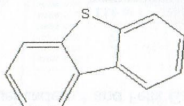


Speed of Sound Measurements Using a Cylindrical Resonator for Gaseous Carbon Dioxide and Propene
Qiang Liu, Xiaojuan Feng, Baolin An, and Yuanyuan Duan*

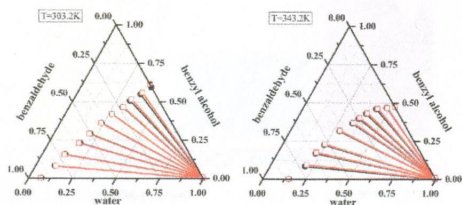


Thermodynamic Models for Determination of the Solubility of Dibenzothiophene in Different Solvents at Temperatures from (278.15 to 328.15) K

Qi Zhang, Yonghong Hu,* Ying Shi, Yang Yang, Limin Cheng, Cuicui Cao, and Wenge Yang*

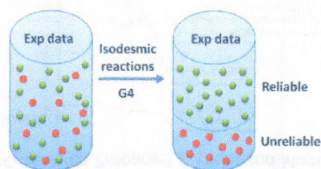


Liquid–Liquid Equilibria for the Ternary System Water + Benzyl Alcohol + Benzaldehyde at (303.2 to 343.2) K
Hui Wang, Qinbo Wang,* Chuxiong Chen, and Zhenhua Xiong

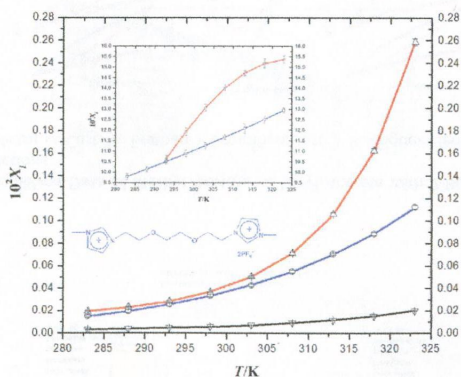


Use of G4 Theory for the Assessment of Inaccuracies in Experimental Enthalpies of Formation of Aliphatic Nitro Compounds and Nitramines

Marina A. Suntsova and Olga V. Dorofeeva*

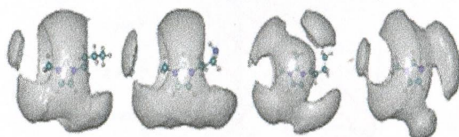


Solubilities of 1,1'-[1,2-Ethanedylbis(oxy-1,2-ethanedyl)]bis-[3-methyl-1*H*-imidazolium-1-yl] Dihexafluorophosphate in Water, Methanol, Ethanol, Dimethylformamide, Dimethyl Sulfoxide, and (Acetone + Water) Binary Solvent Mixtures
Jia-rong Guo, Ling-Hua Zhuang, Guo-Wei Wang,* Yan Wang, and Jie Sun



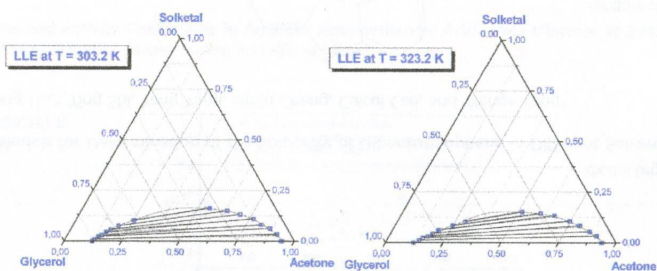
Molecular Dynamics and *ab Initio* Studies of the Effects of Substituent Groups on the Thermodynamic Properties and Structure of Four Selected Imidazolium-Based $[Tf_2N^-]$ Ionic Liquids

Mohammad H. Kowsari,* Mostafa Fakhraee, Saman Alavi, and Bijan Najafi



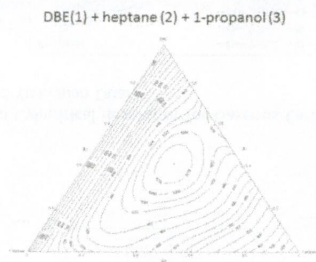
Liquid–Liquid Equilibria for the System Acetone + Solketal + Glycerol at (303.2, 313.2, and 323.2) K

Jesus Esteban, Andreas J. Vorholt, Arno Behr, Miguel Ladero,* and Felix Garcia-Ochoa



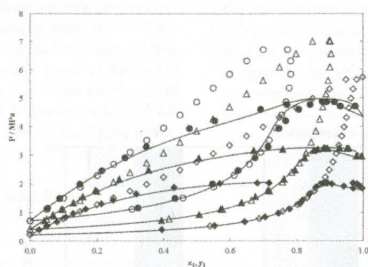
Oxygenated Compounds + Hydrocarbon Mixtures in Fuels and Biofuels: Excess Enthalpies of Ternary Mixtures Containing 1-Butoxybutane + Propan-1-ol + 1-Hex-1-ene, or Heptane, or 2,2,4-Trimethylpentane at (298.15 and 313.15) K

Fatima E.M. Alaoui, Fernando Aguilar, María Jesús González-Fernández, Ahmed El Amarti, and Eduardo A. Montero*



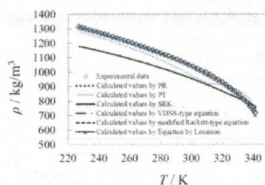
Isothermal Vapor–Liquid Equilibrium Data and Thermodynamic Modeling for Binary Systems of Perfluorobutane (R610) + (Methane or Hydrogen Sulfide) at (293, 313, and 333) K

Mulamba Marc Tshibangu, Alain Valtz, Caleb Narasigadu, Christophe Coquelet, and Deresh Ramjugernath*



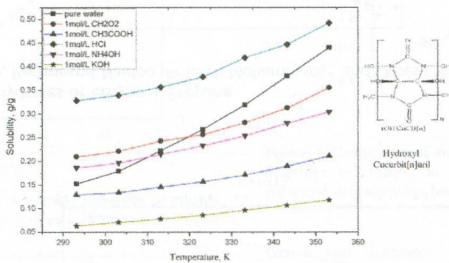
Investigation on Liquid Density Data at the Bubble Point and Equations for the Refrigerant HFC-404A over a Wide Temperature Range

Xiao-gang Qiao,* Ying-jie Xu, and Xiao-hong Han



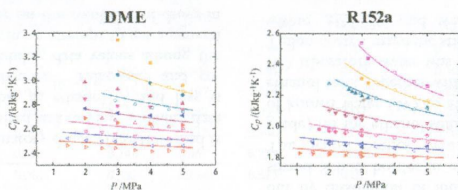
Solubility of Hydroxyl Cucurbit[6]uril in Different Binary Solvents

Lu Zhou, Changjun Zou,* Meng Wang, and Lu Li



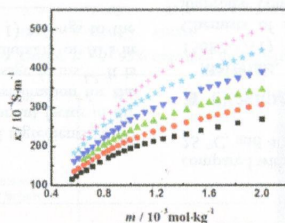
Isobaric Heat Capacity Measurements for Dimethyl Ether and 1,1-Difluoroethane in the Liquid Phase at Temperatures from 305 K to 365 K and Pressures up to 5 MPa

Yijian He, Neng Gao,* Yunyun Jiang, Bin Ren, and Guangming Chen



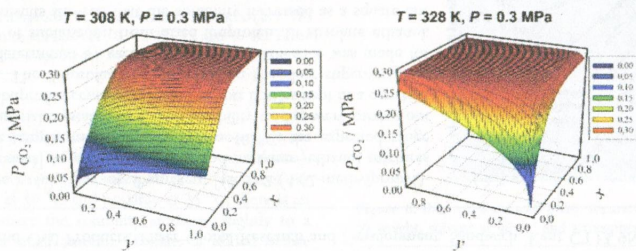
Micellization Parameters of Six Gemini Quaternary Ammonium Surfactants from Measurements of Conductivity and Surface Tension

Shanshan Zhang, Jing Yu, Jianzhou Wu, Wei Tong, Qunfang Lei, and Wenjun Fang*



An Algebraic Description of the Absorption Equilibrium for the Solvay Soda System

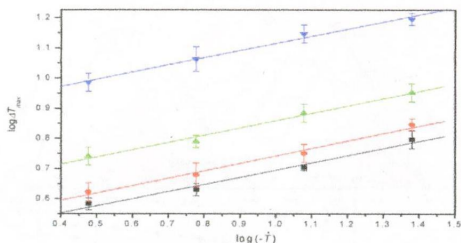
Małgorzata Czernuszewicz, Eugeniusz Cydzik, and Zdzisław Jaworski*



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dx.doi.org/10.1021/je500554c

Effects of Impurity Ions on the Metastable Zone Width of Phosphoric Acid in Tributyl Phosphate
Yong Ma,* Zhou Wang, and Jianying Zhou

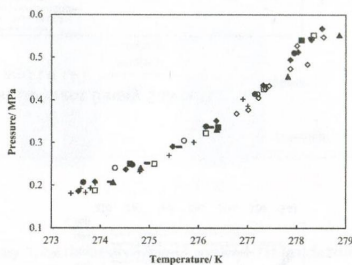


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Phase Equilibria of Clathrate Hydrates of Ethyne + Propane

Kaniki Tumba, Saeedeh Babaee, Paramespri Naidoo, Amir H. Mohammadi,* and Deresh Ramjugernath*



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Phase Equilibrium Conditions and Carbon Dioxide Separation Efficiency of Tetra-*n*-butylphosphonium Bromide Hydrate
N. Ye and P. Zhang*

