

Project Number: 2002-005-1-100

Title: Thermodynamics of ionic liquids, ionic liquid mixtures, and the development of standardized systems

Papers Published or Submitted and Reports Resulting from this Project:

Aki, Sudhir N. V. K.; Mellein, Berlyn R.; Saurer, Eric M.; Brennecke, Joan F.. High-Pressure Phase Behavior of Carbon Dioxide with Imidazolium-Based Ionic Liquids. *Journal of Physical Chemistry B* (2004), 108, 20355-20365.

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Maginn, Edward J. Design and Evaluation of Ionic Liquids as Novel CO₂ Absorbents January 31, 2005, DOE DE-FG26-04NT42122, University of Notre Dame

Letcher, Trevor M.; Marciniak, Andrzej; Marciniak, Malgorzata; Domanska, Urszula. Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide using g.l.c. at T = (298.15, 313.15, and 333.15) K. *Journal of Chemical Thermodynamics* (2005), 37, 1327-1331.

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Heintz, Andreas; Verevkin, Sergey P.; Lehmann, Jochen K.; Vasiltsova, Tatiana V.; Ondo, Daniel. Activity coefficients at infinite dilution and enthalpies of solution of methanol, 1-butanol, and 1-hexanol in 1-hexyl-3-methylimidazolium bis(trifluoromethyl-sulfonyl) imide. *Journal of Chemical Thermodynamics* (2007), 39, 268-274.

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