

Solubilities of carbon dioxide in ionic liquids

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Most of organic solvents are very toxic and cause an environmental pollution. Ionic liquids are electrically conductive and have extremely low vapor pressure. Many have low combustibility, excellent thermal stability, a wide liquid range, and favorable solvating properties for diverse compounds. The unique properties of ionic liquids investigated as replacement solvent for VOCs. Solubility measurement and thermodynamic modeling for ionic liquids-CO₂ systems are actively investigated recently. In this study, we measured solubilities of CO₂ in ionic liquids.