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Henry's law was used to correlate the solubility data, and the thermodynamic properties, such as standard Gibbs free energy, standard enthalpy, and standard entropy of these systems were derived. The solubility of CO₂ increased with increasing molar ratio of guaicol to QAS in each kind of DES.

Solubilities and Thermodynamic Properties of Carbon

Amanda M. Schrand, Tia Benson Tolle, in Carbon Nanotechnology, 2006. 2.4. Thermal properties. Thermal properties of interest to aerospace and military applications include structural performance within high temperature environments and thermal conductivity.

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standard thermodynamic properties of chemical substances This table gives the standard state chemical thermodynamic properties of about 2400 individual substances in the crystalline, liquid, and gaseous

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thermodynamic properties of carbon dioxide under operational conditions anticipated for a typical carbon capture and sequestration (CCS) project – pressure = 1100 – 9000 psia (7 – 62 MPa) and temperature = 40 – 100 °C.

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