

Measurement and Correlation of Solid-Liquid Equilibrium for 2,2',4,4'-Tetrahydroxybenzophenone in Acetone + Water Solvent Mixtures

박혜민, 강정원*

고려대학교

(jwkang@korea.ac.kr*)

Solid-liquid Equilibrium (SLE) data for 2,2',4,4'-Tetrahydroxybenzophenone in acetone + water solvent mixtures were measured at the temperature range between 298.15 K and 323.15 K and varying concentrations of acetone. The experimental solubilities were determined using gravimetric measurement after drying the equilibrium solutions. Uncertainties in solubilities were evaluated using extended standard uncertainty determination method proposed by ISO. The measured data were correlated by a modified Buchowski equation and the NLF-HB (Nonrandom Lattice Fluid with Hydrogen Bonding) Equation of State.