

## Measurement and Correlation of the Climbazole Solubility in Supercritical Fluid

신문삼, 유홍일, 김화용\*

서울대학교

(hwayongk@snu.ac.kr\*)

Supercritical-fluid (SCF) technology has received much attention as an alternative solution for many difficult separation problems, mainly because of its enhanced transport properties and solubilizing power, and ease of solvent recovery. Recently experimental data for equilibrium solubility of solid including biochemical substances in supercritical fluid have measured.

We measured drug solubility the Climbazole in supercritical carbon dioxide at 40, 50, 60 oC using variable volume view cell. Climbazole is a biocide for pharmaceutical, cosmetic, food, and wood industries. We correlated Climbazole solubility in supercritical carbon dioxide with cubic equation of state and lattice fluid equation of state.