

supercritical antisolvent micronization of acetaminophen

오경실, 최성우, 김화용*
서울대학교
(hwayongk@snu.ac.kr*)

We recrystallized acetaminophen from ethanol solution using supercritical carbon dioxide as the antisolvent. We varied the pressure and temperature and investigated their influence on the morphology and size of the particles. A coaxial nozzle was used to introduce the supercritical carbon dioxide and the acetaminophen/ethanol solution into the precipitation vessel. SEM(scanning electron microscopy) images were used to observe the processed particles. FT-IR and NMR were employed to identify the chemical structure of precipitated particles.