

Synthesis of spherical mesoporous silica (I) : MSU-X

비스워스카리다스, 최정식, 장수현, 안화승*

인하대학교 화학공학과

(whasahn@inha.ac.kr*)

A spherical silica material with narrow particle size distribution, MSU-X, is prepared by the two-step synthesis process in which hydrolysis in a mild acidic condition and condensation initiated by F^- ion is taking place independently. TEOS/surfactant ratio is 8 and NaF to TEOS is controlled to 2 mol %. The material prepared was characterized by X-ray diffraction(XRD), Scanning Electron Microscopy(SEM), Transmission Electron Microscopy(TEM), and N_2 adsorption.