

Gas-Phase Transfer Hydrogenation of Ketones Over Metal Incorporated SBA-16

강남철, 김해련, 박상언*

인하대학교

(separk@inha.ac.kr*)

Transition metal Zr, Sn and Ti incorporated into the SBA-16. These metal incorporated nanoporous silica could be applied as lewis acid catalysts, because of the metal species in the silica framework could apply lewis acid active sites. We used these materials to catalyze the gas-phase hydrogenation of ketones using iso-propyl alcohol as hydrogen transfer agent. The acidity of Zr, Sn and Ti characterized by using FT-IR and the results were used to explain the activity of incorporated those metals.