

## Effect of preparation methods on the K/Fe-Cu-Al catalysts for Fischer-Tropsch production of light olefin

강석환, 배종욱, 우광재, 전기원\*  
한국화학연구원  
(kwjun@kriect.re.kr\*)

The Fischer-Tropsch synthesis (FTS) for the production of olefins from syngas was investigated on the different preparation methods such as Fe-Cu-K impregnated on alumina, K impregnated over Fe-Cu-Al co-precipitated, K impregnated over Fe-Cu-Al prepared by sol-gel method and K impregnated over Fe-Cu co-precipitated in slurry phase of Al<sub>2</sub>O<sub>3</sub>. The catalysts were characterized by nitrogen adsorption, XRD, H<sub>2</sub>-TPR, NH<sub>3</sub>-TPD and CO-TPD.