

### Positional isomerization of 2-butene over $\eta$ -alumina catalyst

송기창, 유난숙, 임진형<sup>1</sup>, 이성준<sup>2</sup>, 이재호<sup>2</sup>, 박영권<sup>3</sup>, 전종기\*  
공주대학교 화학공학부; <sup>1</sup>공주대학교 신소재공학부; <sup>2</sup>SK;  
<sup>3</sup>서울시립대학교 환경공학부  
(jkjeon@kongju.ac.kr\*)

Positional isomerization of 2-butene to 1-butene over alumina catalyst was investigated. Physical characteristics and acidity of activated alumina and  $\eta$ -alumina catalysts were analyzed by BET, XRD, ammonia-temperature programmed desorption, and infra-red spectroscopy of adsorbed pyridine. The yield of 1-Butene over  $\eta$ -alumina catalyst was higher than that of activated alumina catalyst. which was due to the large BET surface area as well as the weak acidity of  $\eta$ -alumina.