

Catalytic etherification of glycerol using zeolites and the effect of additives

이지현, 한태열, 이제승[†]

경희대학교

(leejs70@khu.ac.kr[†])

Di- and triglycerol have various applications for many industries including fabric softeners, dispersing agents and pharmaceuticals. Zeolites bearing alkali cation were employed as an heterogeneous catalysts and it showed better selectivities for di- and triglycerol than homogeneous catalysts. To enhance selectivities, additives as proton donors were used in this reaction. To investigate the performance of catalyst and additives, the reaction conditions such as the amount of additives and catalysts, reaction time and reaction temperature were varied.