

Enhanced selectivity of di- and triglycerol by protic ionic liquids

한태열, 박서경, 이제승†
경희대학교
(leejs70@khu.ac.kr†)

Glycerol has emerged as a valuable bio-resource which can be converted into useful chemicals such as epichlorohydrine, glycerol carbonate, glycidol, diglycerol and triglycerol. Glycerol derivatives have been used for cosmetics, dispersant, stabilizer and wetting agent. The control of etherification reaction of glycerol using acetate salts as catalysts is difficult. To improve the yield and selectivity of di- and triglycerol, protic ionic liquids were added as co-catalysts. In order to investigate the role of protic ionic liquids, varied reaction conditions such as the amount of protic ionic liquid, reaction time and reaction temperature were tested.