

Catalytic etherification of glycerol using acetate salts as catalysts and the effect of additives

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Di- and triglycerol are useful materials for many industrial fields such as food, cosmetic and pharmaceuticals. Many studies have been performed to convert glycerol to di- and triglycerol with base catalysts, but it have shown low yield and selectivity. To improve that, acetate salt were used as weak base catalyst and proton donors were used as additives. Various reaction conditions including the amount of catalysts and additives, reaction time and reaction temperature were tried to get high yield and selectivity.