

Magnesium–Lanthanum mixed oxide catalyzed synthesis of glycerol carbonate from glycerol and dimethyl carbonate

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MgO, La₂O₃ and mixed oxide of magnesium and lanthanum with various Mg/La ratio were prepared by precipitation method. Their catalytic activity on transesterification of dimethyl carbonate with glycerol to produce glycerol carbonate was investigated. Characterization of catalysts was carried out by X-ray Diffraction (XRD), IR spectroscopy, Brunauer–Emmet–Teller (BET) surface area and TPD of CO₂ analysis.