Deoxygenation of oleic acid over the sol-gel prepared CoMo catalysts: Effect of citric acid ratio

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The deoxygenation of oleic acid has been carried out under inert and solvent-free conditions over the CoMo catalysts prepared by sol-gel method. The citric acid was performed as a chelating agent during the catalyst preparation. In this study, the effect of citric acid with different ratio on the formation of the CoMo catalyst was systematically investigated. The catalyst properties were studied using various characterization techniques and related to the activity results in deoxygenation.

KEYWORDS: Deoxygenation; Oleic acid; Sol-gel; Cobalt molybdenum; Citric acid