## The effect of calcination temperature on the performance of $Co_{0.5}Mo_{0.5}$ catalysts for decarboxylation reaction

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Decarboxylation of oleic acid without hydrogen has been carried out over unsupported  $Co_{0.5}Mo_{0.5}$  catalysts.  $Co_{0.5}Mo_{0.5}$  catalysts were prepared at various calcination temperatures for decarboxylation reaction.  $Co_{0.5}Mo_{0.5}$  catalyst calcined at 700 °C exhibited the highest oleic acid conversion ( $X_{O.A.}$  = 91.2%) as well as the highest selectivity to  $C_{17}$  compounds ( $S_{C17}$  = 20.6%). The catalyst properties were studied using various characterization techniques and related to the activity results in decarboxylation.

화학공학의 이론과 응용 제20권 제2호 2014년