

A facile method for promoting activities of ordered mesoporous silica-anchored Rh-P complex catalysts in 1-octene hydroformylation

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Screen snap of GC×MS analysis of the 18-carbon α,β -unsaturated aldehyde produced by the dehydration of the aldol condensation adduct of nonyl aldehydes (Shimadzu GCMS-QP2010S). The signal at ca. 15.6 min in the chromatogram was determined by MS shown as follows. A molecule-ionized fragment $m/z = 266$ can be observed, which evidences the presence of the 18-carbon α,β -unsaturated aldehyde produced by the dehydration of the aldol condensation adduct of nonyl aldehydes ($C_{18}H_{34}O$, 2-heptyl-2-undecenal).

