

ABSTRACT

PROCESS FOR PREPARING HIGHER OXO ALCOHOLS FROM  
OLEFIN MIXTURES BY TWO-STAGE HYDROFORMYLATION

The invention relates to a process for preparing higher oxo alcohols from mixtures of isomeric olefins having from 5 to 24 carbon atoms by two-stage hydroformylation in the presence of a cobalt catalyst or rhodium catalyst at elevated temperature and at elevated pressure, which comprises selectively hydrogenating the first hydroformylation stage reaction mixture, separating the hydrogenation mixture in a distillation into crude alcohol and low-boilers predominantly consisting of olefins, passing these low-boilers to the second hydroformylation stage, again selectively hydrogenating the second hydroformylation stage reaction mixture, separating the hydrogenation mixture in one distillation into crude alcohol and low-boilers, working up the crude alcohol by distillation to pure alcohol and taking off at least some of the low-boilers to discharge saturated hydrocarbons.

Figure : None