Abstract

The present invention relates to a process for reacting olefins having 4 to 20 carbon atoms, in which the feed stream used, containing at least linear olefins and branched olefins, is distilled between two reaction steps and only the high-boiler phase obtained in this distillation is subjected to the second reaction, a heterogeneously catalysed hydroformylation, a homogeneously catalysed hydroformylation or a homogeneously catalysed alkoxycarbonylation.

[No figure]