

Title (en)

HYDROFORMYLATION WITH UNMODIFIED RHODIUM CATALYSTS IN SUPERCRITICAL CARBON DIOXIDE

Title (de)

HYDROFORMYLIERUNG MIT UNMODIFIZIERTEN RHODIUMKATALYSATOREN IN ÜBERKRITISCHEM KOHLENDIOXID

Title (fr)

HYDROFORMYLATION AVEC DES CATALYSEURS DE RHODIUM NON MODIFIES DANS DU DIOXYDE DE CARBONE SURCRITIQUE

Publication

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Application

EP 98942539 A 19980711

Priority

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Abstract (en)

[origin: DE19730783A1] The invention relates to a method for producing oxo products by hydroformylation of substrates with C=C double bonds, using unmodified rhodium catalysts in a reaction mixture consisting essentially of the substrates, the catalyst and carbon dioxide in a supercritical state (scCO₂). The invention especially relates to methods of this kind for producing products containing substantial parts of branched i-oxo products. The invention further relates to methods of this kind for the hydroformylation of substrates not corresponding to the general formula C₂H_{2n}. The invention also relates to said methods in which the product and catalyst are separated using the special solubilizing properties of scCO₂.

IPC 1-7

C07C 45/50; **C07B 41/06**; **C07C 45/80**; **C07C 47/02**; **C07C 403/08**; **C07C 57/30**

IPC 8 full level

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