

Title (en)

METHOD FOR HYDROFORMYLATION OF UNSATURATED COMPOUNDS

Title (de)

VERFAHREN ZUR HYDROFORMYLIERUNG VON UNGESÄTTIGTEN VERBINDUNGEN

Title (fr)

PROCÉDÉ D'HYDROFORMYLATION DE COMPOSÉS INSATURÉS

Publication

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Application

EP 11781465 A 20111024

Priority

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Abstract (en)

[origin: WO2012062558A1] The invention relates to a method for hydroformylation of unsaturated compounds such as olefins and alkynes using mixtures of synthesis gas (CO/H₂), in which either the unsaturated compounds and a catalyst are heated to a reaction temperature of 60 to 200 °C and the synthesis gas is then introduced, or the unsaturated compounds and the catalyst are brought into contact with pure CO at normal temperature in a preformation step, then are heated to reaction temperature and on reaching the reaction temperature the CO is replaced by the synthesis gas. The pressure is 1 to 200 bar and the CO:H₂ ratio in the synthesis gas is in the range from 1:1 to 50:1. The iridium catalyst used comprises a phosphorus-containing ligand in an iridium:ligand ratio in the range from 1:1 to 1:100. With high catalyst activities and low catalyst use, very high turnover frequencies are achieved.

IPC 8 full level

C07C 45/50 (2006.01); **C07F 9/02** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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