

Title (en)

PROCESS FOR THE CARBONYLATION OF ETHYLENICALLY UNSATURATED COMPOUNDS, BIDENTATE DIPHOSPHINE COMPOSITION USED IN THIS PROCESS AND PROCESSES FOR PREPARATION OF THIS BIDENTATE DIPHOSPHINE COMPOSITION

Title (de)

VERFAHREN ZUR CARBONYLIERUNG VON ETHYLENISCH UNGESÄTTIGTEN VERBINDUNGEN, IN DIESEM VERFAHREN VERWENDETE ZWEIZÄHNIGE DIPHOSPHINZUSAMMENSETZUNG UND VERFAHREN ZUR PRÄPARATION DIESER ZWEIZÄHNIGEN DIPHOSPHINZUSAMMENSETZUNG

Title (fr)

PROCEDE DE CARBONYLATION DE COMPOSES A INSATURATION ETHYLENIQUE, COMPOSITION DE DIPHOSPHINE BIDENTATE UTILISEE DANS CE PROCEDE ET PROCEDES DE PREPARATION DE CETTE COMPOSITION DE DIPHOSPHINE BIDENTATE

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Application

EP 02724159 A 20020131

Priority

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Abstract (en)

[origin: WO02064250A2] Process for the carbonylation of optionally substituted ethylenically unsaturated compounds by reaction with carbon monoxide and a coreactant in the presence of a catalyst system. The catalyst system includes (a) a source of Pt group metal cations, (b) a bidentate diphosphine composition. More than 60% w/w of bidentate diphosphine present in the bidentate diphosphine composition has the general formula (II) X<1>-R-X<2> wherein X<1> and X<2> independently represent an optionally substituted symmetrical phosphabicycloalkyl group, having at least 5 ring atoms; and R represents a bivalent organic bridging group, connecting both phosphorus atoms. Bidentate diphosphine composition wherein more than 60% w/w of bidentate diphosphine present has the general formula (II') X<1>-R-X<2> wherein X<1> and X<2> independently represent an optionally substituted symmetrical phosphabicycloalkyl group, having at least 5 ring atoms; and R represents a bivalent organic bridging group, connecting both phosphorus atoms, with the proviso that the bidentate diphosphine is not 1,3-PP'bis(9-phosphabicyclo[3.3.1]nonyl)propane. In addition methods to prepare such a bidentate diphosphine composition are described.

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IPC 8 full level

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