

Title (en)

METHOD AND CATALYST FOR THE OXIDATIVE CARBONYLATION OF DIENES

Title (de)

VERFAHREN UND KATALYSATOR ZUR OXIDATIVEN CARBONYLIERUNG VON DIENEN

Title (fr)

PROCEDE ET CATALYSEUR POUR LA CARBONYLATION OXYDANTE DE DIENES

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19822035A1] A catalyst system containing subgroup 8 metal(s) or their compounds and a heteropolyacid of molybdenum, tungsten and/or vanadium in a molar excess (based on metal) of at least 2 is used for the oxidative carbonylation of dienes. A process for the oxidative carbonylation of dienes comprises reacting diolefin(s) with a prim., sec. or tert. alcohol, carbon monoxide and oxygen at above 40 deg C in the presence of a catalyst system containing: (a) subgroup 8 metal(s) or their compounds; and (b) a heteropolyacid of formula (I) in a molar excess of at least 2 based on metal. (H)_{8+a-n}(XMo_{12-a}W_bVaO₄₀)(H₂O)_y (I) X = phosphorus, silicon, arsenic, germanium, titanium or zirconium; n = 5 if X = P or As, or 4 if X = Si, Ge, Ti or Zr; a = 0-4; b = 0-12; and y = 0-40 An Independent claim is also included for the catalyst system described above.

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IPC 8 full level

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