

Title (en)

OXIDATION PROCESS OF ORGANIC SUBSTRATES IN THE PRESENCE OF METAL COMPLEXES OF TETRA-, PENTA- AND HEXACOORDINATING LIGANDS, AND OXIDATION CATALYSTS CONTAINING THEM

Title (de)

VERFAHREN ZUR OXIDATION ORGANISCHER SUBSTRATE IM BEISEIN VON METALLKOMPLEXE VON TETRA-, PENTA- UND HEXAKOORDINIERENDEN LIGANDEN, UND DIESE ENTHALTENDE OXIDATIONSKATALYSATOREN

Title (fr)

PROCEDE D'OXYDATION DE SUBSTRATS ORGANIQUES EN PRESENCE DE COMPLEXES METALLIQUES DE LIGANDS TETRA-, PENTA- ET HEXACOORDINANTS ET CATALYSEURS D'OXYDATION LES CONTENANT

Publication

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Application

EP 96939124 A 19961115

Priority

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Abstract (en)

[origin: WO9718035A1] Selective oxidation process for organic substrates by contacting said substrates with an oxidant selected amongst hydroperoxides and/or hydrogen peroxide in the presence of a catalyst containing a metal complex of a least one multicoordinating nitrogenated ligand characterized in that the molar ratio metal complex/peroxide is comprised between 1 and 10<-10>, the temperature is lower than 120 DEG C, and the metal complex has the general formula: [Lx My Xu]<z> Yq with M a manganese or iron atom in oxidised condition, X a bridge between metals, Y a counter-ion, x and y being >= 1, 0 <= u <= 3, z being the charge of the metal complex and q = z/charge of Y, and L is a ligand having the formula: R1 Ar1 N - (CH2)r - N Ar2 R2, with Ar1 and Ar2 being linear C1 to C6 carbon chains, linked to a nitrogenated heterocycle, R1 and R2 being hydrogen or a C1-C6 alkyl chain optionally connected to a nitrogenated heterocycle, 2 <= r <= 4.

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IPC 8 full level

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