Title (en)

PROCESS FOR HYDROGENATING UNACTIVATED IMINES USING RUTHENIUM COMPLEXES AS CATALYSTS

Title (de)

PROZESS ZUR HYDRIERUNG VON NICHT-AKTIVIERTEN IMINEN UNTER VERWENDUNG VON RUTHENIUM-KOMPLEXEN ALS KATALYSATOREN

Title (fr)

PROCEDE D'HYDROGENATION D'IMINES INACTIVEES A L'AIDE DE COMPLEXES DE RUTHENIUM UTILISES COMME CATALYSEURS

Publication

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Application

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Priority

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- US 38025602 P 20020515

Abstract (en)

[origin: WO03097571A1] A process is provided for the hydrogenation or asymmetric hydrogenation of dialkyl, alkylalkenyl and dialkenyl imines of formula (II) to provide amines of formula (III), wherein, (i) R<1> and R<2> are optionally substituted cyclic, linear or branched alkyl or alkenyl; R<3> is a hydrogen atom, a hydroxy radical, optionally substituted C1 to C8 cyclic, linear or branched alkyl or alkenyl, optionally substituted aryl; or (ii) R<1> is alkyl or alkenyl, R<2> is alkyl or alkenyl and the two are linked together or with R<3> to form one or more rings; using a catalytic system comprising a base and a ruthenium complex containing (1) a diamine and (2) a diphosphine ligand or monodentate phosphine ligands in hydrogenation and asymmetric hydrogenation processes.

IPC 8 full level

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CPC (source: EP)

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1. **C07C 209/52** + **C07C 211/48**
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