

Title (en)
METHOD FOR THE HYDROGENATION OF AROMATIC NITRO COMPOUNDS

Title (de)
VERFAHREN ZUR HYDRIERUNG VON AROMATISCHEN NITROVERBINDUNGEN

Title (fr)
PROCÉDÉ D'HYDROGÉNATION DE COMPOSÉS NITRO AROMATIQUES

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Abstract (en)
[origin: WO2022184614A1] The present invention relates (i) to a method for producing a doped copper-tetraammine-salt-based hydrogenation catalyst suitable for the hydrogenation of an aromatic nitro compound such that an aromatic amine is obtained, the hydrogenation catalyst comprising copper in metal form or in oxidic form and a doping metal selected from iron, cobalt, manganese, vanadium, zinc or a mixture of two or more thereof in metal form or in oxidic form on a carrier, the carrier comprising silicon dioxide shaped bodies and/or silicon carbide shaped bodies, (ii) to a doped copper-tetraammine-salt-based hydrogenation catalyst obtainable using the aforementioned method according to the invention, and (iii) to a method for producing an aromatic amine, comprising the hydrogenation of an aromatic nitro compound in the presence of a doped copper-tetraammine-salt-based hydrogenation catalyst comprising copper in metal form or in oxidic form and comprising a doping metal in metal form or in oxidic form on a carrier as hydrogenation catalyst, the carrier comprising silicon dioxide shaped bodies and/or silicon carbide shaped bodies, and the hydrogenation catalyst being, more particularly, the aforementioned hydrogenation catalyst according to the invention.

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