

Title (en)

A PROCESS FOR THE PREPARATION OF 5-CHLORO-2(2,4-DICHLOROPHENOXY) ANILINE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON 5-CHLOR-2-(2,4-DICHLORPHENOXY)-ANILIN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE 5-CHLORO-2(2,4-DICHLOROPHÉNOXY) ANILINE

Publication

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Application

EP 08870546 A 20081010

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Abstract (en)

[origin: WO2009090669A2] A novel process for the selective reduction of halonitroarenes in general and halonitroaromatic arenes in particular, without the hydrogenolysis of the C-Cl (where, X represents F-, Cl-, Br- and I) and the C-O-C bonds, in the presence of platinum based catalysts and ammonium formate. The invention makes the use of dual function of ammonium formate, as a hydrogen source for partial reduction (catalytic transfer hydrogenation) and as an additive controlling the hydrogenolysis side reactions during the completion of the reduction by high pressure catalytic hydrogenation using external hydrogen gas source. Uniqueness of the invention lies in the fact that either the catalytic transfer hydrogenation with ammonium formate or high pressure catalytic hydrogenation in the absence of ammonium formate, when used alone result in lower purity of the said amine. This invention-product is used to synthesize intermediates for making antibacterial compounds.

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