

Title (en)

PROCESS FOR PREPARING DOUBLE METAL CYANIDE CATALYSTS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DOPPELMETALLCYANID-KATALYSATOREN

Title (fr)

PROCÉDÉ POUR PRODUIRE DES CATALYSEURS À BASE DE CYANURE BIMÉTALLIQUE

Publication

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Application

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Abstract (en)

[origin: WO2021165283A2] The present invention relates to a process for preparing a double metal cyanide (DMC) catalyst, comprising the reaction of an aqueous solution of a cyanide-free metal salt, an aqueous solution of an alkaline metal cyanide salt, an organic complex ligand and optionally a complex-forming component, wherein the metal cyanide salt is one or more compound(s) and is selected from the group consisting of potassium hexacyanocobaltat(III), potassium hexacyanoferrate(II), potassium hexacyanoferrate(III), calcium hexacyanocobaltate(III) and lithium hexacyanocobaltat(III), where the organic complex ligand is one or more compound(s) and is selected from the group consisting of dimethoxyethane, tert-butanol, 2-methyl-3-buten-2-ol, 2-methyl-3-buten-2-ol, ethylene glycol mono-tert-butyl ether and 3-methyl-3-oxetanemethanol, and wherein the alkaline metal cyanide salt used has an alkalinity by the titration method disclosed in the Experimental of between 0.700% and 3.000% by weight of sodium hydroxide (NaOH) based on the total weight of the alkaline metal cyanide salt used. The invention further relates to double metal cyanide (DMC) catalysts obtainable by the process according to the invention and to the use of DMC catalysts for preparation of polyoxyalkylene polyols.

IPC 8 full level

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