

Title (en)

PROCESS FOR SYNTHESIS OF DIORGANOSILANES BY DISPROPORTIONATION OF HYDRIDOSILOXANES

Title (de)

VERFAHREN ZUR SYNTHESE VON DIORGANOSILANEN DURCH DISPROPORTIONIERUNG VON HYDRIDOSILOXANEN

Title (fr)

PROCEDE DE SYNTHESE DE DIORGANOSILANES PAR DISPROPORTIONNEMENT D'HYDRIDOSILOXANES

Publication

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Application

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Abstract (en)

[origin: WO2007005037A1] The present invention provides a novel method for the preparation of diorganosilanes by disproportionation of a hydridosiloxanes comprising at least one terminal SiH group and at least one siloxane bond in the presence of Lewis acid catalysts. The reaction is both selective and occurs under mild conditions. The triaryl borane, tris(pentafluorophenyl)borane, is especially suited for use as a catalyst in the reaction. Organic catalysts such as tris(pentafluorophenyl)borane are typically preferred owing to their greater solubility and stability in the reaction mixture, relative to inorganic Lewis acid catalysts. The product, diorganosilane may be isolated from the product mixture by conventional techniques such as distillation.

IPC 8 full level

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