

Title (en)

METHOD FOR PURIFYING 2-(FLUOROALKYL OR FLUOROALKOXY)-4,5-DICYANOIMIDAZOLES

Title (de)

VERFAHREN ZUR REINIGUNG VON 2-(FLUORALKYL ODER FLUORALKOXY)-4,5-DICYANOIMIDAZOLEN

Title (fr)

PROCÉDÉ DE PURIFICATION DE 2-(FLUOROALKYL OU FLUOROALKOXY)-4,5-DICYANOIMIDAZOLES

Publication

**EP 4025563 A1 20220713 (FR)**

Application

**EP 20771791 A 20200904**

Priority

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Abstract (en)

[origin: WO2021044016A1] The present invention concerns a method for purifying a compound of following formula (III), in which R<sub>f</sub> is a fluorinated alkyl group or fluorinated alkoxy group comprising 1 to 5 carbon atoms, said method comprising the following steps: a) a step of heating a composition comprising the compound of formula (III) in an organic solvent S<sub>3</sub>, to a temperature T<sub>1</sub> until the compound of formula (III) has dissolved; b) a step of cooling to an intermediate temperature T<sub>2</sub> between 23°C and temperature T<sub>1</sub> resulting in a two-phase composition comprising: - a phase P<sub>1</sub> comprising the compound of formula (III); - a phase P<sub>2</sub>; c) a step of separating phases P<sub>1</sub> and P<sub>2</sub> at temperature T<sub>2</sub>; d) a step of cooling phase P<sub>1</sub> to a temperature T<sub>3</sub> until crystals of the compound of formula (III) are formed.

IPC 8 full level

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