

Title (en)

METHOD FOR PREPARING SYNTHETIC MINERAL PARTICLES

Title (de)

VERFAHREN ZUR HERSTELLUNG SYNTHETISCHER MINERALPARTIKEL

Title (fr)

PROCEDE DE PREPARATION DE PARTICULES MINERALES SYNTHETIQUES

Publication

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Application

EP 16785230 A 20160927

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Abstract (en)

[origin: WO2017055735A1] The invention relates to a method for preparing synthetic mineral particles with formula $(\text{Al}_y\text{M}_{1-y})_2(\text{SixGe}_{1-x})_2\text{O}_5(\text{OH})_4$, wherein M designates at least one trivalent metal selected from the group made up of gallium and the rare earths, which comprises the following steps: preparing a gel which is a precursor of said synthetic mineral particles by a co-precipitation reaction of at least one salt of a metal selected among aluminium and M with at least one silicon source selected from the group made up of potassium metasilicate, sodium metasilicate, potassium metagermanate and sodium metagermanate, the molar ratio of $(\text{Al}_y\text{M}_{1-y})$ to (SixGe_{1-x}) during the preparation of said precursor gel being equal to 1, at least one base being added during said co-precipitation reaction; and performing a solvothermal treatment of said precursor gel at a temperature of 250°C to 600°C.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2017055735A1

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