

Title (en)
METHOD FOR SYNTHESIZING AN AFX-STRUCTURE ZEOLITE OF VERY HIGH PURITY IN THE PRESENCE OF AN ORGANIC NITROGEN-CONTAINING STRUCTURING AGENT

Title (de)
VERFAHREN ZUR SYNTHESE EINES ZEOLITHEN MIT AFX-STRUKTUR MIT SEHR HOHER REINHEIT IN GEGENWART EINES ORGANISCHEN STICKSTOFFHALTIGEN STRUKTURIERUNGSMITTELS

Title (fr)
PROCEDE DE SYNTHESE D'UNE ZEOLITHE DE TYPE STRUCTURAL AFX DE TRES HAUTE PURETE EN PRESENCE D'UN STRUCTURANT ORGANIQUE AZOTE

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Application
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Abstract (en)
[origin: WO2019224088A1] The invention relates to a method for preparing an AFX-structure zeolite, said method comprising at least the following steps: i) in an aqueous medium, mixing an FAU-structure zeolite having a molar ratio SiO₂ (FAU)/Al₂O₃ (FAU) of between 6.00 and 200 inclusive, an organic nitrogen-containing compound R, at least one source of at least one alkali and/or alkaline-earth metal M, the reaction mixture having the following molar composition: (SiO₂ (FAU))/(Al₂O₃ (FAU)) of between 6.00 and 200, H₂O/(SiO₂ (FAU)) of between 1.00 and 100, R/(SiO₂ (FAU)) of between 0.01 and 0.60, M₂/nO/(SiO₂ (FAU)) of between 0.005 and 0.45, limits included, until a homogeneous precursor gel is obtained; and ii) subjecting the precursor gel resulting from step (i) to hydrothermal treatment at a temperature of between 120 °C and 220 °C for a period of between 12 hours and 15 days.

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