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ABSTRACT

MICROPOROUS CRYSTALLINE ZEOLITE MATERIAL (ZEOLITE ITQ-22), SYNTHESIS METHOD THEREOF AND USE OF SAME AS A 5 CATALYST

The present invention refers to a microporous crystalline material of zeolitic nature (ITQ-22) which, in the calcined state, has the empirical formula wherein

10 M is H^+ or at least one inorganic cation of charge $+n$;

X is at least one chemical element of oxidation state +3, preferably selected from the group consisting of Al, Ga, B, Fe and Cr;

15 Y is at least one chemical element with oxidation state +4 other than Si and Ge, preferably selected from the group consisting of Ti, Sn and V;

x has a value less than 0.2, preferably less than 0.1 and can take the value zero,

20 y has a value less than 0.1, preferably less than 0.05 and can take the value zero,

z has a value less than 0.8, preferably between 0.005 and 0.5 and can take the value zero,

with a characteristic X-ray diffraction pattern, to the
25 method of preparation and to the use of the material in separation and transformation processes of organic compounds.