

ABSTRACT

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

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;

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,

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 method of preparation and to the use of the material in separation and transformation processes of organic compounds.