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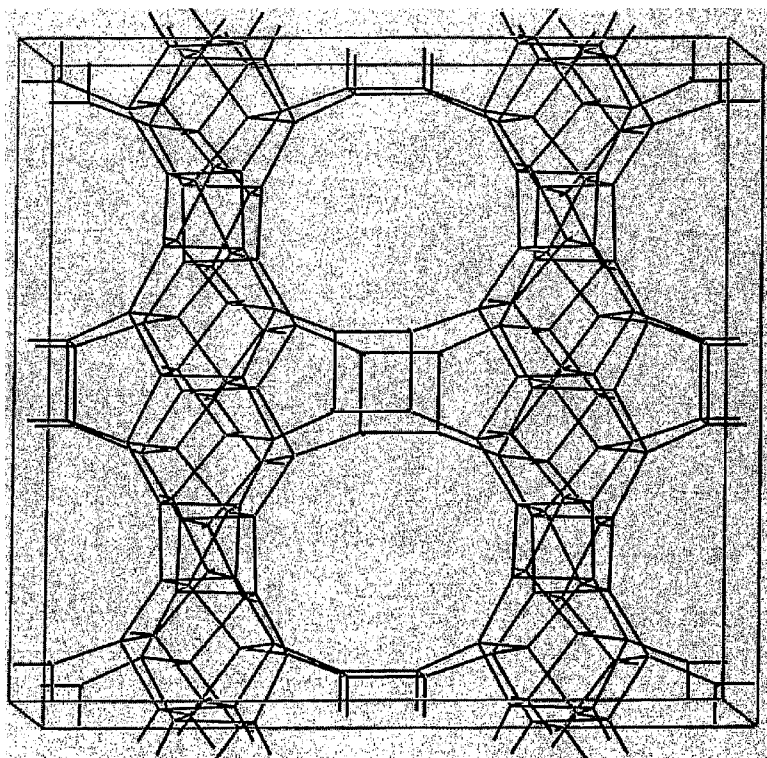
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(54) Title: ITQ-27, NEW CRYSTALLINE MICROPOROUS MATERIAL

Framework structure of ITQ-27 showing only the tetrahedral atoms. There is a single unit cell, whose edges are defined by the gray boxes.



(57) Abstract: ITQ-27 (INSTITUTO DE TECNOLOGÍA QUÍMICA number 27) is a new crystalline microporous material with a framework of tetrahedral atoms connected by atoms capable of bridging the tetrahedral atoms, the tetrahedral atom framework being defined by the interconnections between the tetrahedrally coordinated atoms in its framework. ITQ-27 can be prepared in silicate compositions with a organic structure directing agent. It has a unique X-ray diffraction pattern, which identifies it as a new material. ITQ-27 is stable to calcination in air, absorbs hydrocarbons, and is catalytically active for hydrocarbon conversion.

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