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(54) Title: EMM-3, NEW CRYSTALLINE MICROPOROUS MATERIAL

(57) Abstract: EMM-3 (ExxonMobil Material number 3) 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. EMM-3 can be prepared in aluminophosphate (AlPO) and metalloaluminophosphate (MeAPO) compositions with the hexamethonium template. It has a unique X-ray diffraction pattern, which identifies it as a new material. EMM-3 is stable to calcination in air, absorbs hydrocarbons, and is catalytically active for hydrocarbon conversion.

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