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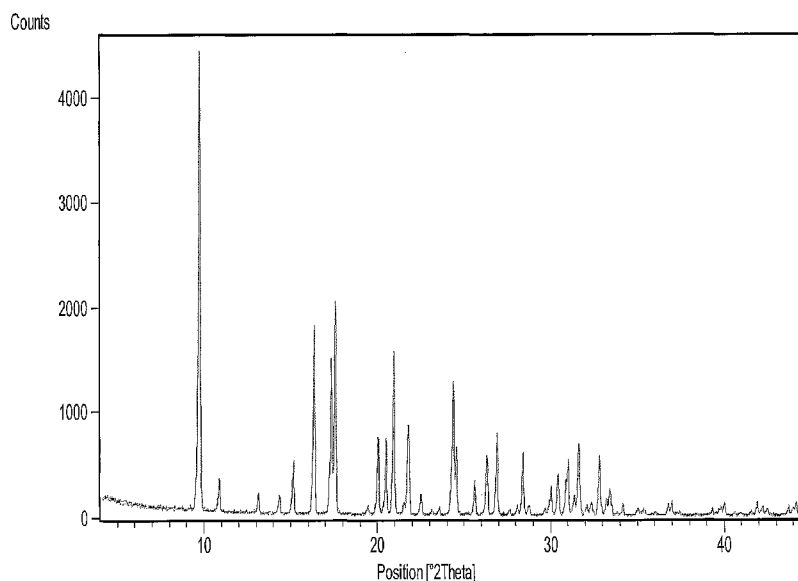
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(54) Title: AEI-TYPE ZEOLITE, ITS SYNTHESIS AND ITS USE IN THE CONVERSION OF OXYGENATES TO OLEFINS



(57) Abstract: A crystalline material is described that has an AEI framework type, wherein the material, in its calcined, anhydrous form, has a composition involving the molar relationship: (n)X₂O₃:YO₂, wherein X is a trivalent element, Y is a tetravalent element n is from 0 to less than 0.01. The material is normally synthesized in a halide, typically a fluoride, medium and exhibits activity and selectivity in the conversion of methanol to lower olefins, especially ethylene and propylene.

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