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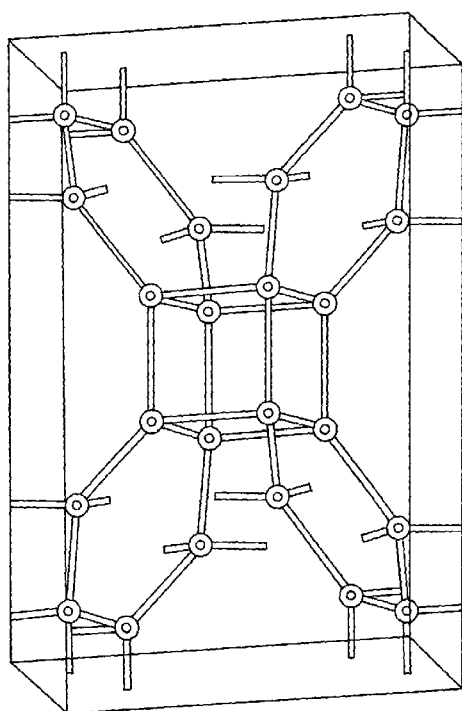
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(54) Title: SYNTHETIC POROUS CRYSTALLINE MATERIAL ITQ-12, ITS SYNTHESIS AND USE



(57) Abstract: A new synthetic porous crystalline material, designated ITQ-12, is disclosed having, in its calcined form, the X-ray diffraction pattern of Table 2 above. Also disclosed are methods of making ITQ-12 in its silicate, aluminosilicate and borosilicate forms in the presence of HF using 1,3,5-trimethylimidazole as a directing agent and hydolyzed tetraethylorthosilicate as a silicate source. ITQ-12 is useful in the conversion of methanol to olefins and as an adsorbent.



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