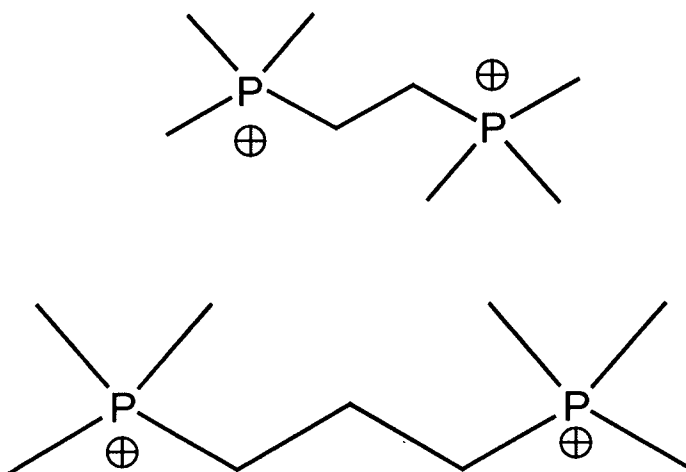


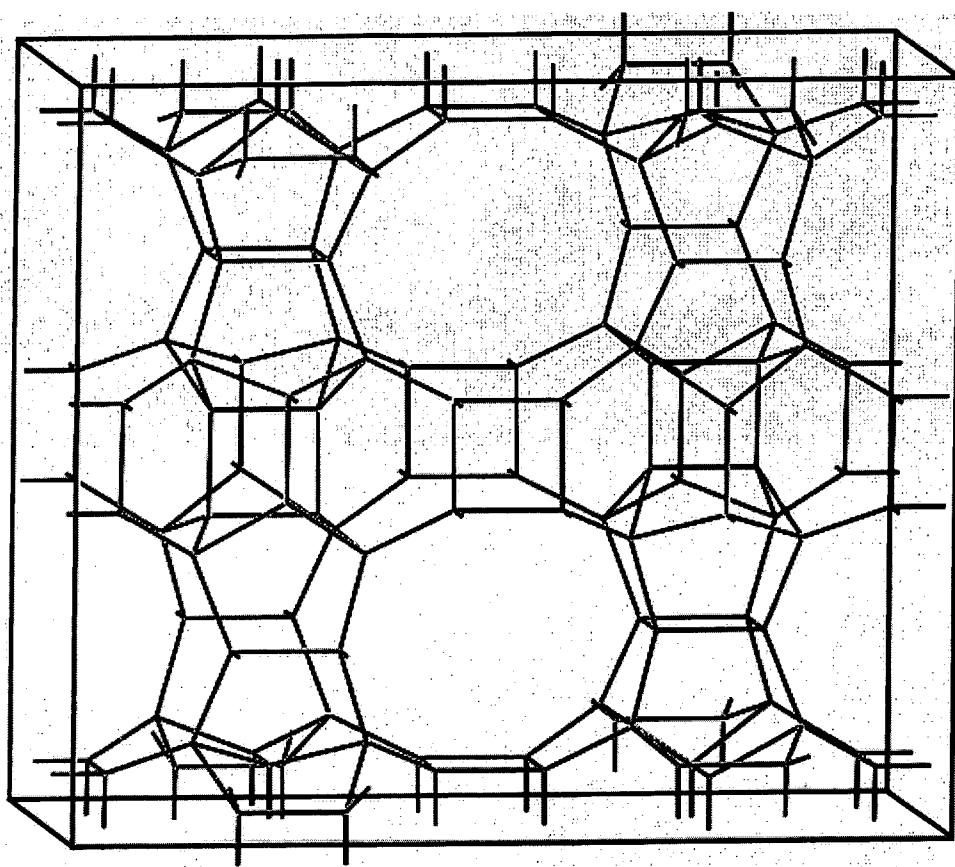
1 / 5

The ethane 1,2-bis-(trimethylphosphonium) hydroxide ($\text{Me}_3\text{P}(\text{CH}_2)_2\text{PMe}_3(\text{OH})_2$) (upper) and propane 1,3-bis-(trimethylphosphonium) hydroxide ($\text{Me}_3\text{P}(\text{CH}_2)_3\text{PMe}_3(\text{OH})_2$) (lower) structure directing agents

**FIG. 1**

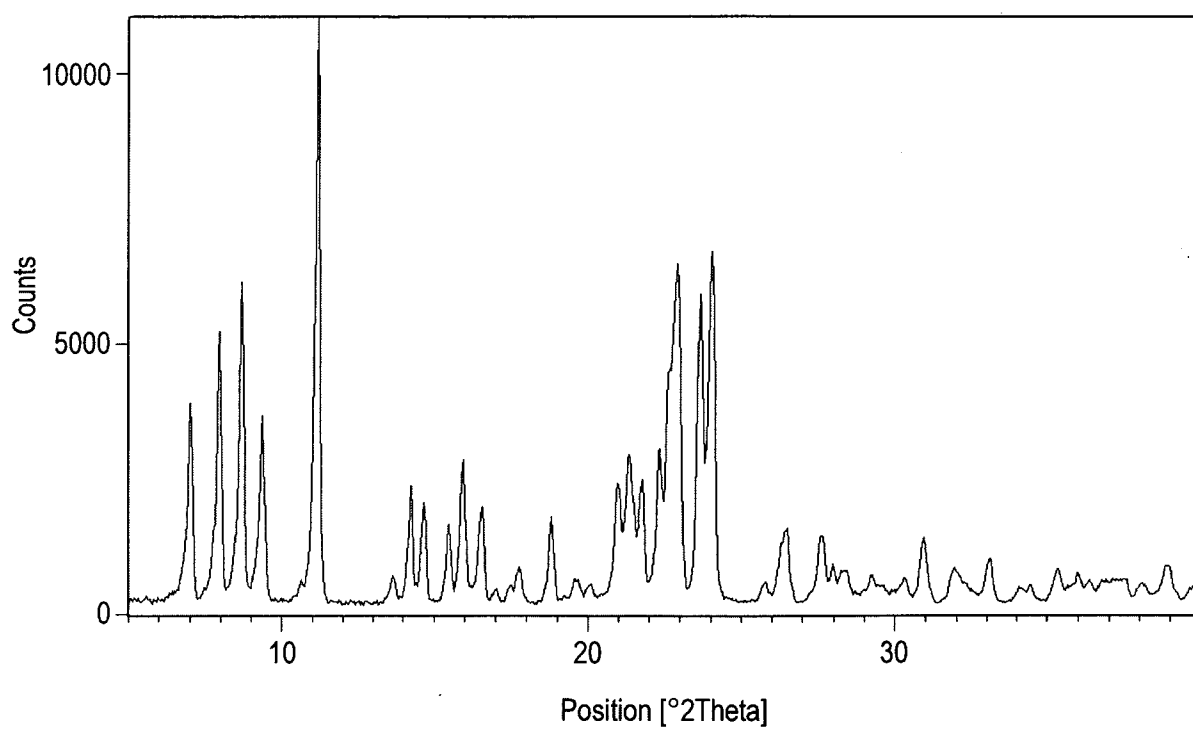
2 / 5

Framework structure of ITQ-34 showing only the tetrahedral atoms. There is a single unit cell, whose edges are defined by the box.

**FIG. 2**

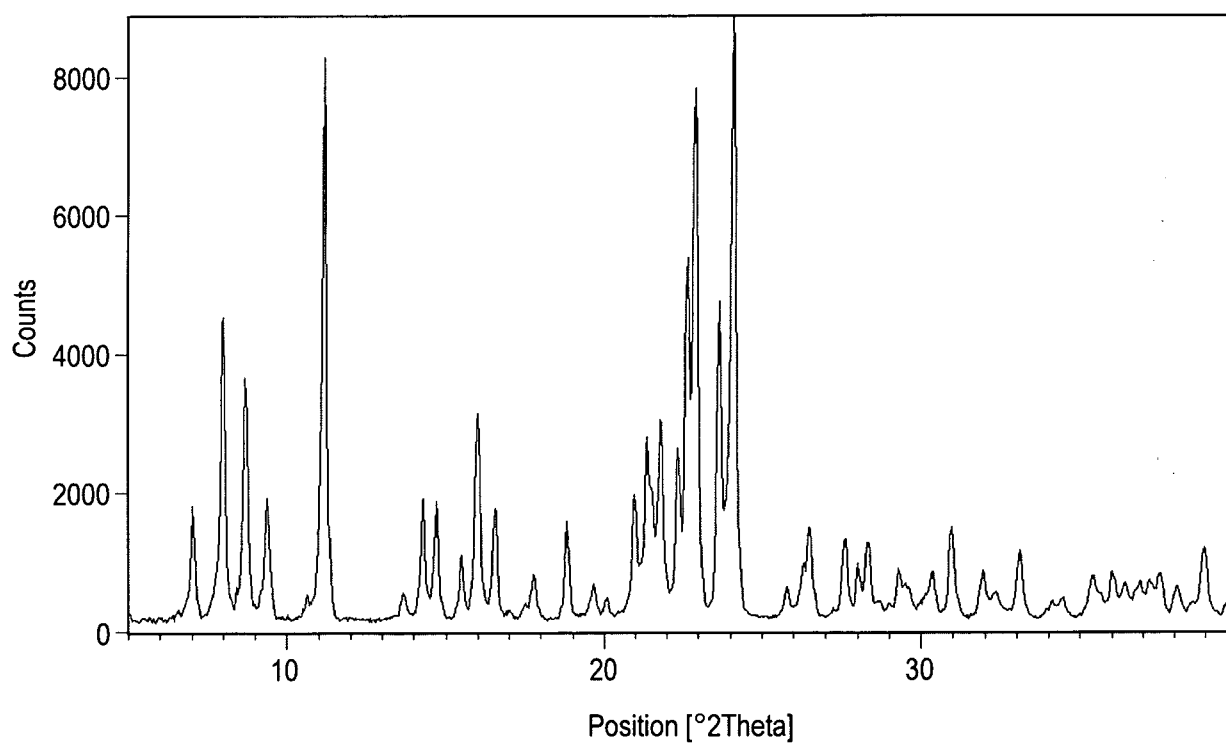
3 / 5

X-ray diffraction pattern of as-synthesized ITQ-34 prepared with ethane-1,2-bis (trimethylphosphonium) hydroxide. Pattern measured with reflection geometry using Cu K α radiation.

**FIG. 3**

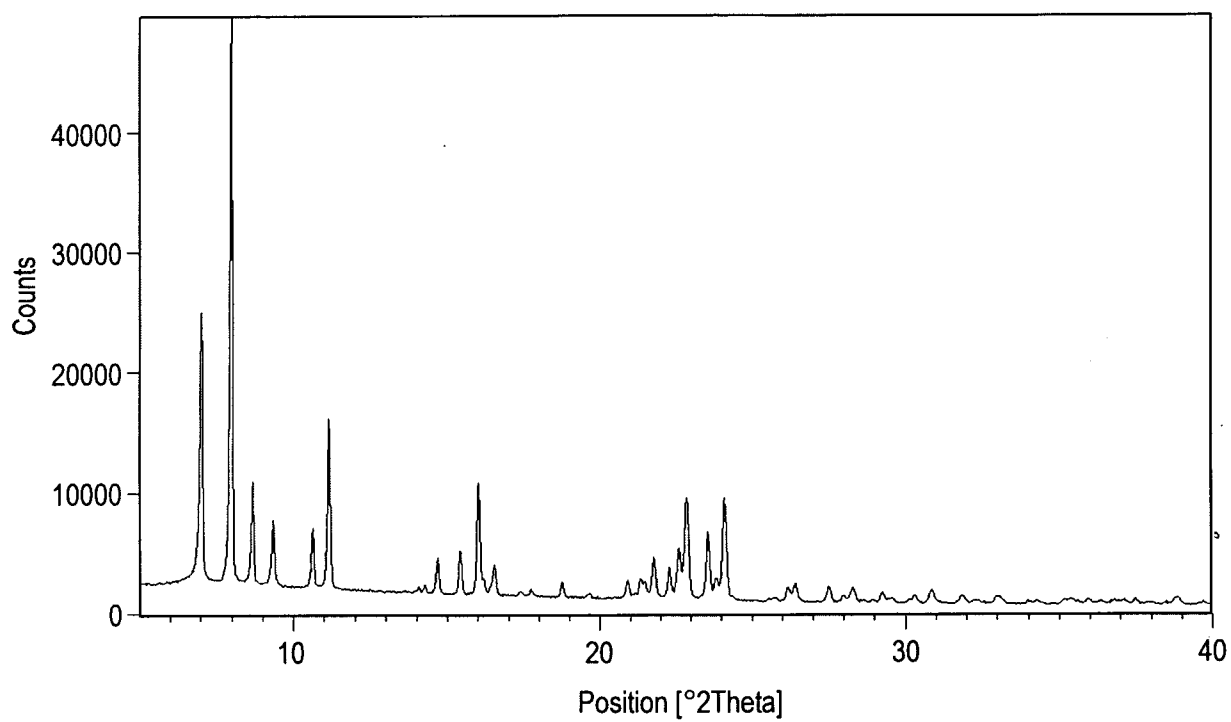
4 / 5

X-ray diffraction pattern of as-synthesized ITQ-34 prepared with propane-1,3-bis (trimethylphosphonium) hydroxide. Pattern measured with reflection geometry using Cu K α radiation.

**FIG. 4**

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X-ray diffraction pattern of calcined ITQ-34. Pattern measured with reflection geometry using Cu K α radiation.

**FIG. 5**