

ABSTRACT

The invention relates to a molecular sieve SCM-14, a preparation process and use thereof. The molecular sieve has a schematic chemical composition of a formula of " $\text{SiO}_2 \cdot 1/n\text{GeO}_2$ " or a formula of " $k\text{F} \cdot m\text{Q} \cdot \text{SiO}_2 \cdot 1/n\text{GeO}_2 \cdot p\text{H}_2\text{O}$ ", wherein the molar ratio of silicon to germanium, n , satisfies $n \leq 30$, and other values and symbols are defined in the specification. The molecular sieve has unique XRD diffraction data and can be used as an adsorbent or a catalyst.

Fig. 1