

## **Abstract**

The present invention discloses a SCM-34 molecular sieve, preparation method therefor and use thereof. The SCM-34 molecular sieve comprises  
5 aluminum, phosphorus, oxygen and optionally silicon. In the XRD diffraction data of the molecular sieve, a  $2\theta$  degree of the strongest peak within the range of  $5-50^\circ$  is  $7.59 \pm 0.2$ . The SCM-34 molecular sieve has a new skeleton structure and can be used to prepare a metal-containing AFI type molecular sieve or an SAPO-17 molecular sieve, meeting the different needs for  
10 catalysts in the chemical production.

Fig.1