

ABSTRACT

SCM-10 MOLECULAR SIEVE, A PROCESS FOR PRODUCING SAME AND USE THEREOF

The present invention relates to an SCM-10 molecular sieve, a process for producing same and use thereof. The molecular sieve has an empirical chemical composition as illustrated by the formula "the first oxide · the second oxide", wherein the ratio by molar of the first oxide to the second oxide is less than 40, the first oxide is at least one selected from the group consisting of silica and germanium dioxide, the second oxide is at least one selected from the group consisting of alumina, boron oxide, iron oxide, gallium oxide, titanium oxide, rare earth oxides, indium oxide and vanadium oxide. The molecular sieve has specific XRD pattern and can be used as an adsorbent or a catalyst for converting an organic compound.

Figure 1