

SCM-11 MOLECULAR SIEVE, A PROCESS FOR PRODUCING SAME AND USE THEREOF

ABSTRACT

The present invention relates to an SCM-11 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 more than 2, the first oxide is silica, the second oxide is at least one selected from the group consisting of germanium dioxide, 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.

Fig.2