

MWW-TYPE MOLECULAR SIEVE,  
AND PREPARATION METHOD THEREFOR AND USE THEREOF

Abstract

Disclosed are an MWW-type molecular sieve, and a preparation method therefor and a use thereof. The weight ratio of framework aluminum ( $\text{Al}_{\text{[F]}}$ ) to extra-framework aluminum ( $\text{Al}_{\text{[EF]}}$ ) of the molecular sieve is 5.0-16.0:1. The present invention provides a novel MWW-type molecular sieve. When the catalyst prepared by using the molecular sieve of the present invention is used in a reaction for preparing cyclohexylbenzene by means of transalkylation of polycyclohexylbenzene and benzene, the conversion rate of polycyclohexylbenzene and the selectivity of a cyclohexylbenzene product can be improved.

[Figure 2]