

Abstract

The present invention relates to a modified X-type molecular sieve, wherein the surface area of the modified X-type molecular sieve is 9.5-19
5 m²/g, and the sum of the mesopore and macropore volumes accounts for 6%-18% of the total pore volume; the present invention also relates to an adsorbent for aromatic hydrocarbon isomer containing the modified X-type molecular sieve, and their preparation method and use. The modified X-type molecular sieve and the adsorbent are used for adsorptive separation of p-
10 xylene from mixed C8 aromatic hydrocarbons.

Fig. 2