

Abstract

A Bifunctional reduced-state non-noble metal catalyst and a preparation method and application thereof

The present invention provides a bifunctional reduced-state non-noble metal catalyst and a preparation method and application thereof, and relates to the technical field of biofuel production and zeolite catalyst preparation. The bifunctional reduced-state non-noble metal catalyst comprises Y zeolite of 20 to 40 wt%, ZSM-22 zeolite of 10 to 20 wt%, metallic nickel of 30 to 45 wt% and γ -Al₂O₃. The bifunctional reduced-state non-noble metal catalyst of the present invention exhibits both isomerization and cracking capabilities.

(Figure 1)