

Sulfur-resistant Catalyst for Aromatics Saturated Hydrogenation and Preparation Method Thereof

ABSTRACT

The present invention relates to a method for preparing a sulfur-resistant catalyst for aromatics saturated hydrogenation, comprising the steps of: preparing noble metal impregnation solutions from a noble metal and deionized water or an acid solution; impregnating a carrier with the impregnation solutions sequentially from high to low concentrations by incipient impregnation; homogenizing, drying, and calcinating to obtain the sulfur-resistant catalyst for aromatics saturated hydrogenation. The catalyst for aromatics saturated hydrogenation prepared by the method according to the present invention is primarily used in processing low-sulfur and high-aromatics light distillate, middle distillate, atmospheric gas oil, and vacuum gas oil. The method according to the present invention is advantageous in that the catalyst for aromatics saturated hydrogenation exhibits good hydrofining performance, superior aromatics saturation performance, high liquid yield of products, as well as excellent desulfurization and sulfur-resistance, and the catalyst has remarkable effects in use and a great prospect of application.

(No Suitable Figure)