

Abstract

A hydrogenation catalyst and a preparation method therefor, the hydrogenation catalyst comprising a support and an active component, the active component comprising Mo and a divalent metal, and the divalent metal being at least one selected from Mg, Zn, and Cu; based on the total weight of the hydrogenation catalyst, the content of Mo is 3-18%, the content of the divalent metal is 0.1-7%, and the mass ratio of Mo to S is 1.5 or more. The catalyst has good hydrotreating capacity, has good hydrotreating activity when used for oil product hydrotreating in a low-sulphur environment, and also has good activity stability. Also provided are a use of the hydrogenation catalyst and an oil product hydrotreating method.