

Abstract

The present application relates to a process for treating gasoline, comprising the steps of: contacting a gasoline feedstock with a mixed catalyst and subjecting it to desulfurization and aromatization in the presence of hydrogen to obtain a desulfurization-aromatization product; 5 optionally, splitting the resulting desulfurization-aromatization product into a light gasoline fraction and a heavy gasoline fraction; and ,optionally, subjecting the resulting light gasoline fraction to etherification to obtain an etherified oil; wherein the mixed catalyst comprises an adsorption desulfurization catalyst and an aromatization catalyst. The process of the present application is capable of reducing the sulfur and olefin content of gasoline and at the same time 10 increasing the octane number of the gasoline while maintaining a high yield of gasoline.

[Fig.1]