

Petroleum Chemistry 2010 vol.50 N5, pages 388-394

Isoprene manufacturing process on a new bimetallic (platinum-tin) catalyst

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Abstract

The influence of the reaction conditions on the characteristics of the one-step process of the dehydrogenation of 2-methylbutane or 2-methylbutenes to isoprene in the presence of a new bimetallic (Pt-Sn) catalyst was studied. It was shown that this catalyst supported on a material with an optimal structure holds promise for use in the industrial-scale process for the manufacturing of isoprene via one-step dehydrogenation. © 2010 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S0965544110050129>
