

Title (en)
CATALYST AND METHODS FOR THE ISOMERISATION OF OLEFINS FROM OLEFIN-CONTAINING HYDROCARBON MIXTURES HAVING 4-20 C-ATOMS

Title (de)
KATALYSATOR UND VERFAHREN ZUR ISOMERISIERUNG VON OLEFINEN AUS OLEFIN-HALTIGEN KOHLENWASSERSTOFFGEMISCHEN MIT 4 BIS 20 C-ATOMEN

Title (fr)
CATALYSEUR ET PROCÉDÉ POUR L'ISOMÉRISEMENT D'OLÉFINES À PARTIR DE MÉLANGES D'HYDROCARBURES OLÉFINIQUES AYANT DE 4 À 20 ATOMES DE CARBONE

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Application
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Abstract (en)
[origin: WO2017009204A1] The invention relates to a catalyst containing aluminium dioxide as a carrier material and palladium or platinum as an active component, which can be obtained by the following means: a) impregnating an aluminium oxide carrier with a solution containing at least one salt of the active component palladium or platinum; and b) drying the catalyst obtained in this way, characterised in that c) the catalyst obtained in this way is treated with hydrogen or a mixture of hydrogen and at least one inert gas over a time period of 1-24 hours at a temperature of 30-200°C, and d) the catalyst reduced in this way is subsequently stored in the presence of hydrogen or a mixture of hydrogen and at least one inert gas for a time period of between 1 hour and 10 days at a temperature of 10-100°C. The catalyst according to the invention can be used for methods for the isomerisation of olefins from olefin-containing hydrocarbon mixtures having 4-20 C-atoms at temperatures of 10-150°C and pressures of 1-35 bar, e.g. for the isomerisation of 1-butene to 2-butene.

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