

Title (en)
METHOD FOR THE OXIDATIVE DEHYDROGENATION OF N-BUTENES TO BUTADIENE

Title (de)
VERFAHREN ZUR OXIDATIVEN DEHYDRIERUNG VON N-BUTENEN ZU BUTADIEN

Title (fr)
PROCÉDÉ DE DÉSHYDROGÉNATION OXYDATIVE DE N-BUTÈNES EN BUTADIÈNE

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Application
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Abstract (en)
[origin: WO2014086813A1] The invention relates to a catalyst which is obtainable from a catalyst precursor comprising a catalytically active multimetal oxide which contains molybdenum and at least one further metal and is of the general formula (I) $\text{Mo}_{12}\text{B}_a\text{Fe}_b\text{Co}_c\text{Ni}_d\text{Cr}_e\text{X}_1^f\text{X}_2^g\text{O}_x$, in which the variables have the following meaning: $\text{X}_1 = \text{W}, \text{Sn}, \text{Mn}, \text{La}, \text{Ce}, \text{Ge}, \text{Ti}, \text{Zr}, \text{Hf}, \text{Nb}, \text{P}, \text{Si}, \text{Sb}, \text{Al}, \text{Cd}$ and/or Mg ; $\text{X}_2 = \text{Li}, \text{Na}, \text{K}, \text{Cs}$ and/or Rb , $a = 0.1$ to 7 , preferably 0.3 to 1.5 ; $b = 0$ to 5 , preferably 2 to 4 ; $c = 0$ to 10 , preferably 3 to 10 ; $d = 0$ to 10 ; $e = 0$ to 5 , preferably 0.1 to 2 ; $f = 0$ to 24 , preferably 0.1 to 2 ; $g = 0$ to 2 , preferably 0.01 to 1 ; and $x =$ a number which is determined by the valency and frequency of the elements in (I) that are different from oxygen, characterized in that the catalyst has the shape of a hollow cylinder, wherein the inner diameter is 0.2 to 0.8 -times the outer diameter and the length is 0.5 to 2.5 -times the outer diameter, and in that the catalyst precursor does not contain pore formers.

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