

Title (en)
REGENERATION OF A DEHYDROGENATION CATALYST

Title (de)
REGENERIERUNG EINES DEHYDRIERKATALYSATORS

Title (fr)
REGENERATION D'UN CATALYSEUR DE DESHYDROGENATION

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Application
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Abstract (en)
[origin: WO0245852A2] The invention relates to a method for the regeneration of a dehydrogenation catalyst, comprising the steps (a)-(f): (a) flushing with inert gas at a pressure of 0.5 to 2.0 bar and a gas loading of 1 000 to 50 000 h<-1>; (b) passage of an oxygen-containing gas mixture, containing an inert gas, at a pressure of 2 to 20 bar and a gas loading of 1,000 to 50,000 h<-1>, over a period of 0.25 to 24 h with sequential or continuous increase of the oxygen concentration from an initial value of 0.01 to 1 vol. % O₂ to a final value of 10 to 25 vol. % O₂; (c) optional passage of an oxygen-containing gas mixture, containing an inert gas, at a pressure of 0.5 to 20 bar and a gas loading of 10 to 500h<-1> over a period of 0.25 to 100 h with an oxygen concentration of 10 to 25 vol. % O₂; (d) optional repeated rapid cyclical pressure changes of a factor of 2 to 20, within the range 0.5 to 20 bar; (e) flushing with an inert gas; (f) activation of the catalyst with hydrogen, whereby at least one of steps (c) or (d) is carried out and the whole regeneration process occurs at a temperature of between 300 and 800 DEG C.

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