

Title (en)
METHOD FOR HYDROGENATING GLYCEROL

Title (de)
VERFAHREN ZUR HYDRIERUNG VON GLYCERIN

Title (fr)
PROCEDE D'HYDROGENATION DE GLYCERINE

Publication
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Application
EP 08784510 A 20080611

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Abstract (en)
[origin: WO2008151784A1] The invention relates to a method for producing 1,2 propandiol by hydrogenation of glycerol using hydrogen gas, wherein glycerol is reacted with hydrogen to give 1,2 propandiol. This reaction is carried out in at least i reactors R1 to Ri that are fluidically interconnected and that have respective hydrogenation catalysts. According to said method, hydrogen gas and a glycerol phase PGlycerin are introduced into the first reactor R1 and a first, preferably gaseous hydrogen phase H1 is formed in the reactor R1. The preferably liquid phase Pn-1 that was formed in the above-mentioned reactor Rn-1 and hydrogen are introduced into each of the subsequent reactors Rn, with n being an integer from the range of 2 to i, and a preferably liquid 1,2 propandiol-containing phase Pn and a preferably gaseous hydrogen phase Hn are formed in the reactor Rn, the glycerol phase PGlycerin containing at least 60% by weight of glycerol based on the total weight of the glycerol phase PGlycerin. The invention also relates to the 1,2 propandiol obtainable by this method, to a device for producing 1,2 propandiol, and to a method for producing a compound having at least one ether group, at least one ester group, at least one amino group, at least one urethane group, or at least two thereof.

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