

Title (en)

METHOD FOR EXPOXIDIZING OR DIHYDROXYLATING UNSATURATED FATTY ACIDS

Title (de)

VERFAHREN ZUR EPOXIDIERUNG ODER DIHYDROXYLIERUNG VON UNGESÄTTIGTEN FETTSÄUREN

Title (fr)

PROCEDE D'EPOXIDATION OU DE DIHYDROXYLATION D'ACIDES GRAS UNSATURES

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Application

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Abstract (en)

[origin: FR2789073A1] The invention relates to a method for the production of monocarboxylic fatty acid derivatives, comprising at least two vicinal hydroxyl functions and/or at least one epoxide function from unsaturated fatty acids and/or the derivatives thereof. The inventive method consists in bringing at least one reagent chosen from among said unsaturated fatty acids in the form of an acid and/or ester into contact with hydrogen peroxide in the presence of a tungsten and/or molybdenum compound. The reaction is conducted in the presence of a co-catalyst of formula (I): (R<1>)2-C(OH)-C(OH)-(R<2>)2 or formula (II). The reaction is carried out at a temperature ranging between 80-100 DEG C and involves introducing the hydrogen peroxide in such a way that the concentration thereof in the reaction medium does not exceed 20 % of the weight of the reaction product.

IPC 1-7

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