

Title (en)

METHOD FOR TRANSFORMING LEVOGLUCOSENONE INTO 4-HYDROXYMETHYL BUTYROLACTONE OR 4-HYDROXYMETHYL BUTENOLIDE

Title (de)

VERFAHREN ZUR UMWANDLUNG VON LEVOGLUCOSENON IN 4-HYDROXYMETHYLBUTYROLACTON ODER 4-HYDROXYMETHYLBUTENOLID

Title (fr)

PROCÉDÉ DE TRANSFORMATION DE LÉVOGLUCOSÉNONE EN 4-HYDROXYMÉTHYLBUTYROLACTONE OU 4-HYDROXYMÉTHYLBUTÉNOLIDE

Publication

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Application

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Abstract (en)

[origin: WO2015165957A1] The invention relates to a method for transforming levoglucosenone into 4-hydroxymethyl butyrolactone or 4-hydroxymethyl butenolide, comprising a step involving the oxidation of the levoglucosenone, or dihydrolevoglucosenone obtained by hydrogenation of levoglucosenone, by bringing a solution of levoglucosenone or dihydrolevoglucosenone in a solvent into contact with a lipase in the presence of an oxidizing agent and an acyl donor compound. The oxidation step is followed by a step involving the hydrolysis of the reaction mixture obtained, and, if necessary, a step involving the hydrogenation of the compound obtained at the end of the hydrolysis step.

IPC 8 full level

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