

Title (en)
METHOD FOR THE PRODUCTION OF (R)- AND (S)-8-CHLORO-6-HYDROXY-OCTANIC ACID ALKYL ESTERS BY ENZYMATIC REDUCTION

Title (de)
VERFAHREN ZUR HERSTELLUNG VON (R)- UND (S)-8-CHLOR-6-HYDROXY-OCTANSÄUREALKYLESTERN DURCH ENZYMATISCHE REDUKTION

Title (fr)
PROCEDE DE FABRICATION D'ESTERS D'ALKYLE D'ACIDE 8-CHLORO-6-HYDROXY-OCTANOIQUE (R) ET (S) PAR REDUCTION ENZYMATIQUE

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Application
EP 02779483 A 20021014

Priority
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• EP 0211470 W 20021014

Abstract (en)
[origin: DE10152113C1] Preparation of alkyl (R)- or (S)-8-chloro-6-hydroxy-octanoates (II) involves enzymatic reduction of alkyl 8-chloro-6-oxo-octanoates (I) using alcohol dehydrogenases or carbonyl reductases in presence of NAD(H) or NADP(H) as cofactor. Preparation of alkyl (R)- or (S)-8-chloro-6-hydroxy-octanoates of formula (II), comprises enzymatic reduction of alkyl 8-chloro-6-oxo-octanoates of formula (I) using alcohol dehydrogenases or carbonyl reductases in presence of nicotinamide adenine dinucleotide NAD(H) or nicotinamide adenine dinucleotide phosphate NADP(H) as cofactor. R = 1-4C alkyl. An Independent claim is included for the preparation of (R)- or (S)- alpha -lipoic acid, by conventional conversion of (II) obtained by the above process.

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IPC 8 full level
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