

Title (en)

DIASTEREOSELECTIVE METHOD OF PREPARING OLEFINS BY MEANS OF THE HORNER-WADSWORTH-EMMONS REACTION, COMPRISING THE ADDITION OF A TRIS-(POLYOXAALKYL)-AMINE SEQUESTERING AGENT

Title (de)

VERFAHREN ZUR DIASTEREOSELEKTIVEN DARSTELLUNG VON OLEFINEN DURCH HORNER-WADSWORTH-EMMONS REAKTION UNTER VERWENDUNG VON TRIS-(POLYOXYALKYL)-AMINEN ALS SEQUESTRIERMITTEL

Title (fr)

PROCEDE DE PREPARATION DIASTEREOSELECTIF D'OLEFINES PAR LA REACTION D'HORNER-WADSWORTH-EMMONS COMPRENANT UN AJOUT D'UN AGENT SEQUESTRANT TRIS-(POLYOXAALKYL)-AMINE

Publication

EP 1549607 A2 20050706 (FR)

Application

EP 03772375 A 20030922

Priority

- FR 0302781 W 20030922
- FR 0211731 A 20020923

Abstract (en)

[origin: WO2004026806A2] The invention relates to a diastereoselective method of preparing olefins by means of the Horner-Wadsworth-Emmons reaction consisting in reacting a phosphonate on a carbonyl derivative in the presence of a base in an appropriate solvent and at a low temperature. The invention is characterised in that it comprises the addition of a tris-(polyoxaalkyl)-amine sequestering agent in a sufficient quantity to increase the diastereoselectivity of the olefin, said agent having formula (I): $N-[CHR_1-CHR_2-O-(CHR_3-CHR_4-O)_n-R_5]_3$ (I), wherein: n is an integer between 0 and 10; R₁, R₂, R₃, R₄ can be identical or different and represent a hydrogen atom or an alkyl radical having between 1 and 4 carbon atoms; and R₅ represents a hydrogen atom, an alkyl radical or a cycloalkyl having up to 12 carbon atoms, a phenyl radical or a radical with formula -CmH_{2m}-F or CmH_{2m+1}-F, m being an integer between 1 and 12 and F being a phenyl radical.

IPC 1-7

C07C 67/343; C07C 69/618; C07C 69/608; C07B 37/00; C07D 213/55; C07D 333/24; C07C 69/65; C07C 69/734

IPC 8 full level

C07C 67/343 (2006.01); **C07D 213/48** (2006.01); **C07D 333/24** (2006.01)

CPC (source: EP US)

C07C 67/343 (2013.01 - EP US); **C07D 213/48** (2013.01 - EP US); **C07D 333/24** (2013.01 - EP US); **C07B 2200/09** (2013.01 - EP US); **C07C 2601/14** (2017.04 - EP US)

Citation (search report)

See references of WO 2004026806A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004026806 A2 20040401; **WO 2004026806 A3 20040422**; AU 2003279429 A1 20040408; AU 2003279429 A8 20040408; CA 2499635 A1 20040401; CN 100378059 C 20080402; CN 1684939 A 20051019; EP 1549607 A2 20050706; FR 2844791 A1 20040326; FR 2844791 B1 20041029; US 2006100456 A1 20060511

DOCDB simple family (application)

FR 0302781 W 20030922; AU 2003279429 A 20030922; CA 2499635 A 20030922; CN 03822638 A 20030922; EP 03772375 A 20030922; FR 0211731 A 20020923; US 52871505 A 20051003