

Title (en)

METHOD FOR SYNTHESIZING BETA-DICARBONYL COMPOUNDS

Title (de)

VERFAHREN ZUR SYNTHESE VON BETA-DICARBONYLVERBINDUNGEN

Title (fr)

PROCÉDÉ DE SYNTHÈSE DE COMPOSÉS BÉTA-DICARBONYLÉS

Publication

EP 2619164 A1 20130731 (FR)

Application

EP 11771219 A 20110919

Priority

- FR 1057498 A 20100920
- FR 2011052143 W 20110919

Abstract (en)

[origin: WO2012038648A1] The invention relates to a method for synthesizing beta-dicarbonyl compounds, particularly beta-diketones, from at least two carbonyl compounds, such as esters and ketones, in the presence of a strong base or a mixture of strong bases by Claisen condensation with a titer of greater than 95%, the method being characterized by the following steps: mounting a synthesis reactor (1) on which a separation column (5), provided with a condenser (7) and with at least one microwave generator (13), is mounted; feeding a first carbonyl compound and the strong base into the synthesis reactor; heating said reactor (1) and starting up the condenser (7); starting up the microwave generator(s) (13); when the mixture is brought to a boil at total reflux, feeding the second carbonyl compound into the reactor (1) ; and after a waiting time, stopping the reactor and acidifying and washing the reaction mixture.

IPC 8 full level

C07C 45/45 (2006.01); **C07C 49/782** (2006.01)

CPC (source: EP KR US)

C07C 45/45 (2013.01 - KR); **C07C 45/455** (2013.01 - EP US); **C07C 45/61** (2013.01 - US); **C07C 49/782** (2013.01 - KR)

C-Set (source: EP US)

C07C 45/455 + C07C 49/782

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 2964964 A1 20120323; FR 2964964 B1 20131018; BR 112013008049 A2 20160621; CN 103209948 A 20130717; EP 2619164 A1 20130731; JP 2013537217 A 20130930; KR 20140041380 A 20140404; SG 189954 A1 20130628; US 2014088325 A1 20140327; WO 2012038648 A1 20120329

DOCDB simple family (application)

FR 1057498 A 20100920; BR 112013008049 A 20110919; CN 201180054688 A 20110919; EP 11771219 A 20110919; FR 2011052143 W 20110919; JP 2013528752 A 20110919; KR 20137010102 A 20110919; SG 2013030234 A 20110919; US 201113824621 A 20110919