

Title (en)

IMPROVED SYNTHESIS OF SUBSTITUTED 1-HALOMETHYL-2-PHENYL-1-PHENYL OXIRANE

Title (de)

VERBESSERTE SYNTHESE VON SUBSTITUIERTEN 1-HALOGENMETHYL-2-PHENYL-1-PHENYLOXIRAMEN

Title (fr)

AMELIORATION DE LA SYNTHÈSE DU 1-HALOMETHYL-2-PHENYL-1-PHENYLOXYRANE SUBSTITUE

Publication

**EP 1899312 A2 20080319 (EN)**

Application

**EP 06745168 A 20060622**

Priority

- IL 2006000729 W 20060622
- IL 16942005 A 20050627

Abstract (en)

[origin: WO2007000759A2] The present invention provides an improved process for the preparation of 1-halomethyl-2-phenyl-1-phenyl oxirane, wherein the phenyl substituents may be mono-, di- or poly- halo substituted, wherein 3-halo-2-phenyl- 1-phenyl propene is reacted with an anhydride and hydrogen peroxide in a solvent selected from among alkyl esters, followed by subsequent extraction and separation of the organic phase and isolation of the oxirane. The improvements of said process are in yield, isolation procedure and safety. The isolation and purification of the oxirane is carried out subsequent to the reaction and includes extraction and crystallization in single, multiple or repeated stages.

IPC 8 full level

**C07D 301/18** (2006.01)

CPC (source: EP KR)

**C07D 301/18** (2013.01 - EP); **C07D 303/08** (2013.01 - EP KR)

Citation (search report)

See references of WO 2007000759A2

Citation (examination)

DE 3218129 A1 19831117 - BASF AG [DE]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2007000759 A2 20070104; WO 2007000759 A3 20070405**; BR PI0613843 A2 20110215; CN 101208322 A 20080625; EP 1899312 A2 20080319; KR 20080024207 A 20080317

DOCDB simple family (application)

**IL 2006000729 W 20060622**; BR PI0613843 A 20060622; CN 200680022975 A 20060622; EP 06745168 A 20060622; KR 20087001352 A 20080117