

Title (en)
NOVEL SYNTHETIC PROCESS TO 8-CHLORO-1-METHYL-BENZO[D]AZEPINE, NOVEL INTERMEDIATES AND THE PRODUCTION THEREOF

Title (de)
NEUARTIGES SYNTHETISCHES VERFAHREN FÜR 8-CHLOR-1-METHYL-BENZO[D]AZEPIN, NEUARTIGE ZWISCHENPRODUKTE UND HERSTELLUNG DAVON

Title (fr)
NOUVEAU PROCÉDÉ DE SYNTHÈSE DE 8-CHLORO-1-MÉTHYL-BENZO[D]AZÉPINE, NOUVEAUX INTERMÉDIAIRES ET LEUR PRODUCTION

Publication
EP 2989082 A1 20160302 (EN)

Application
EP 14719726 A 20140423

Priority
• EP 13164994 A 20130423
• EP 2014058194 W 20140423
• EP 14719726 A 20140423

Abstract (en)
[origin: WO2014173928A1] The present invention is directed to a simple and economical process for the preparation of 8-chloro-1-methyl-2,3,4,5-tetrahydro-1H-benzo[d]azepine via novel intermediates and a highly selective asymmetric synthesis leading to enantiopure (R)-8-chloro-1-methyl-2,3,4,5-tetrahydro-1H-benzo[d] azepine or its (S)-enantiomer, in order to avoid or overcome chemical optical resolution.

IPC 8 full level
C07D 223/16 (2006.01); **C07C 233/31** (2006.01); **C07D 291/04** (2006.01)

CPC (source: EP)
C07C 209/48 (2013.01); **C07C 209/58** (2013.01); **C07C 211/29** (2013.01); **C07C 213/08** (2013.01); **C07C 217/40** (2013.01); **C07C 231/02** (2013.01); **C07C 233/13** (2013.01); **C07C 253/30** (2013.01); **C07C 269/06** (2013.01); **C07C 271/14** (2013.01); **C07D 223/16** (2013.01); **C07D 291/04** (2013.01); **C07B 2200/07** (2013.01)

C-Set (source: EP)
1. **C07C 269/06 + C07C 271/14**
2. **C07C 231/02 + C07C 233/13**
3. **C07C 213/08 + C07C 217/40**
4. **C07C 209/58 + C07C 211/29**
5. **C07C 209/48 + C07C 211/29**
6. **C07C 253/30 + C07C 255/35**

Citation (search report)
See references of WO 2014173928A1

Citation (examination)
PAUL HEBEISEN ET AL: "Ring opening of cyclic sulfamidates with bromophenyl metal reagents: complementarity of sulfamidates and aziridines", TETRAHEDRON LETTERS, vol. 52, no. 41, 1 October 2011 (2011-10-01), AMSTERDAM, NL, pages 5229 - 5233, XP055318635, ISSN: 0040-4039, DOI: 10.1016/j.tetlet.2011.07.123

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014173928 A1 20141030; CN 105358534 A 20160224; EP 2989082 A1 20160302

DOCDB simple family (application)
EP 2014058194 W 20140423; CN 201480035262 A 20140423; EP 14719726 A 20140423