This article was downloaded by:

On: 29 January 2011

Access details: Access Details: Free Access

Publisher Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



Phosphorus, Sulfur, and Silicon and the Related Elements

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713618290

Diasteredmeric Alkylphenylphdsphinic Acids Derivatives Containing Menthyl, Thionedmenthyl and Aminomenthyl Groups: Synthesis, Chirality and Applications

W. Perlikowska^a; J. Omelańczuk^a; M. Mikolajczyk^a

^a Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Łódź, Sienkiewicza, Poland

To cite this Article Perlikowska, W., Omelańczuk, J. and Mikolajczyk, M.(1990) 'Diasteredmeric Alkylphenylphdsphinic Acids Derivatives Containing Menthyl, Thionedmenthyl and Aminomenthyl Groups: Synthesis, Chirality and Applications', Phosphorus, Sulfur, and Silicon and the Related Elements, 51: 1, 189

To link to this Article: DOI: 10.1080/10426509008040723 URL: http://dx.doi.org/10.1080/10426509008040723

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: http://www.informaworld.com/terms-and-conditions-of-access.pdf

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

DIASTEREOMERIC ALKYLPHENYLPHOSPHINIC ACIDS DERIVATIVES CONTAINING MENTHYL, THIONEOMENTHYL AND AMINOMENTHYL GROUPS: SYNTHESIS, CHIRALITY AND APPLICATIONS

W.PERLIKOWSKA, J.OMELAŃCZUK, M.MIKOŁAJCZYK

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, 90-362 Łódź, Sienkiewicza 112, Poland

Recently we have found that the condensation of racemic alkylphenylphosphinochloridite with menthol affords a mixture of diastereomers. We have also demonstrated utility of this reaction for the synthesis of optically active phosphines and amides 1,2 .

In this communication we present application of neomenthanethiol and menthaneamine as chiral auxiliaries inducing optical activity at the phosphorus atom.

X=0,S,NHR=Me,Et,t-Bu

Resolution, chirality at the phosphorus atom and transformations of the compounds (1) to phosphinates, thiophosphinates and phosphines will be presented.

- M.Mikołajczyk, J.Omelańczuk, W.Perlikowska, Tetrahedron. <u>35</u>, 153 (1979).
- J.Omelańczuk, W.Perlikowska, M.Mikołajczyk, J.C.S.Chem. Comm., 24 (1980).