

This article was downloaded by:

On: 30 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>

### CHIRAL SULFOXIMINES AS AUXILIARY LIGANDS FOR ASYMMETRIC SYNTHESIS

Carl R. Johnson<sup>a</sup>; Charles J. Stark Jr.<sup>a</sup>; Susan Goff<sup>a</sup>; Andrew Romano<sup>a</sup>; James Zeller<sup>a</sup>

<sup>a</sup> Department of Chemistry, Wayne State University, Detroit, Michigan, U.S.A.

**To cite this Article** Johnson, Carl R. , Stark Jr., Charles J. , Goff, Susan , Romano, Andrew and Zeller, James(1979) 'CHIRAL SULFOXIMINES AS AUXILIARY LIGANDS FOR ASYMMETRIC SYNTHESIS', *Phosphorus, Sulfur, and Silicon and the Related Elements*, 6: 1, 149

**To link to this Article:** DOI: 10.1080/03086647908080348

**URL:** <http://dx.doi.org/10.1080/03086647908080348>

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.

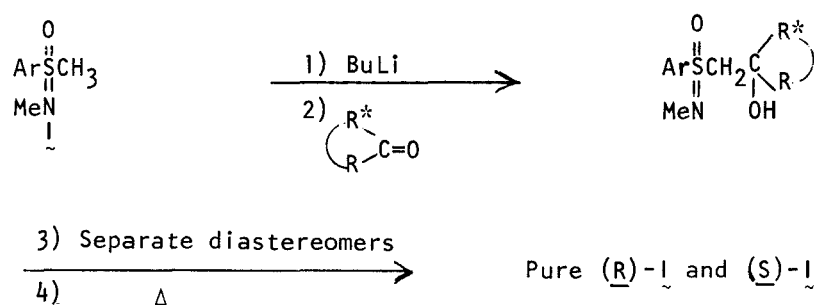
# CHIRAL SULFOXIMINES AS AUXILIARY LIGANDS FOR ASYMMETRIC SYNTHESIS

Carl R. Johnson, Charles J. Stark, Jr., Susan Goff, Andrew Romano and James Zeller

Department of Chemistry, Wayne State University, Detroit, Michigan 48202, U.S.A.

The resolution of sulfoximines based on Scheme 1 will be discussed

Scheme 1



Optically pure  $\beta$ -hydroxysulfoximines form complexes with metal hydrides which are useful in asymmetric reductions of prochiral carbonyl compounds, e.g., Scheme 2.

Scheme 2

