This article was downloaded by:

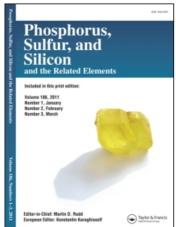
On: 30 January 2011

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: <a href="http://www.informaworld.com/smpp/title~content=t713618290">http://www.informaworld.com/smpp/title~content=t713618290</a>

## Dihydrazidophosphoric Acid Derivatives as Starting Materials for Inorganic Heterocycles with Unusual Ring Conformations

Udo Engelhardt<sup>a</sup>; Thomas Bünger<sup>a</sup>; Heinz Viertel<sup>a</sup>; Brigitte Stromburg<sup>a</sup>; Konrad Giersdorf<sup>a</sup> Institut für Anorganische und Analytische Chemie, FU Berlin, Berlin

**To cite this Article** Engelhardt, Udo , Bünger, Thomas , Viertel, Heinz , Stromburg, Brigitte and Giersdorf, Konrad(1987) 'Dihydrazidophosphoric Acid Derivatives as Starting Materials for Inorganic Heterocycles with Unusual Ring Conformations', Phosphorus, Sulfur, and Silicon and the Related Elements, 30: 3, 768

To link to this Article: DOI: 10.1080/03086648708079260 URL: http://dx.doi.org/10.1080/03086648708079260

## 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.

## Dihydrazidophosphoric Acid Derivatives as Starting Materials for Inorganic Heterocycles with Unusual Ring Conformations

UDO ENGELHARDT\*, THOMAS BÜNGER, HEINZ VIERTEL, BRIGITTE STROMBURG, KONRAD GIERSDORF

Institut für Anorganische und Analytische Chemie, FU Berlin Fabeckstr. 34-36, D-1000 Berlin 33

Reported are synthetic routes to inorganic heterocycles of different ring size, containing phosphorus, hydrazine, silicon and other elements as ring components. Steric effects that cause saturated sixmembered rings to adopt an unusual twist conformation are discussed (temperature dependent NMR-spectra, X-ray structures).

(S) 
$$\frac{R^2}{N}$$
  $\frac{R^3}{N}$   $\frac{R^2}{N}$   $\frac{R^3}{R^3}$   $\frac{R^2}{N}$   $\frac{R^3}{R^3}$   $\frac{R^$