

This article was downloaded by:

On: 28 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>

A New Way for Potential Aminophosphonic Acids Precursors

Henri-Jean Cristau^a; Jean-Marc Lambert^a; Anne Sarris^a; Jean-Luc Pirat^a

^a Laboratoire de Chimie Organique, ENSCM, URA 458, Montpellier Cedex 1, FRANCE

To cite this Article Cristau, Henri-Jean , Lambert, Jean-Marc , Sarris, Anne and Pirat, Jean-Luc(1996) 'A New Way for Potential Aminophosphonic Acids Precursors', Phosphorus, Sulfur, and Silicon and the Related Elements, 111: 1, 125

To link to this Article: DOI: 10.1080/10426509608054754

URL: <http://dx.doi.org/10.1080/10426509608054754>

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.

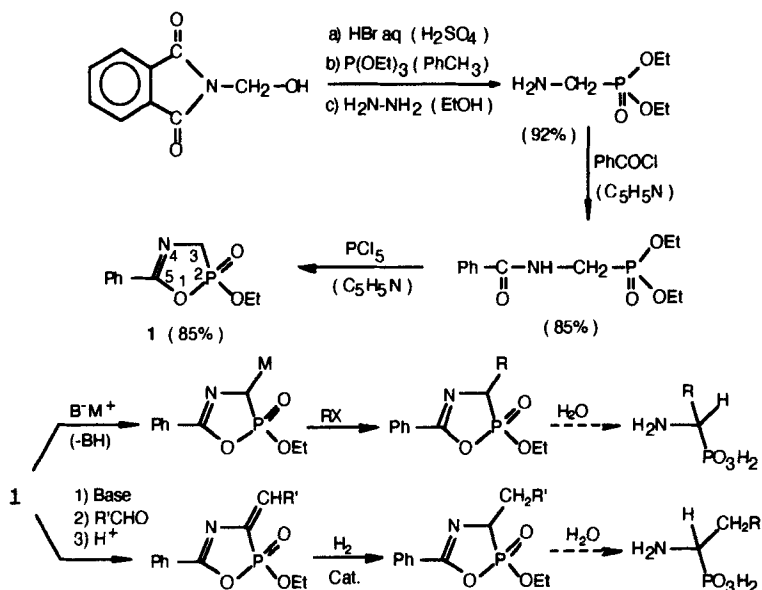
A NEW WAY FOR POTENTIAL AMINOPHOSPHONIC ACIDS PRECURSORS

HENRI-JEAN CRISTAU*, JEAN-MARC LAMBERT, ANNE SARRIS AND
 JEAN-LUC PIRAT*

Laboratoire de Chimie Organique, ENSCM, URA 458, 8 rue de l'Ecole Normale,
 34053 MONTPELLIER Cedex 1, FRANCE

Abstract New five membered-ring 3,3-dihydro-1,4,2-oxazaphospholenes **1**, potential precursors of aminophosphonic acids, have been synthesized and characterized by ^1H , ^{13}C and ^{31}P NMR.

The replacement of COOH group by $\text{P}(\text{O})(\text{OH})_2$ or related functions exhibit a broad range of interest because several synthetic and natural phosphonic analogs of amino acids have rather interesting biological properties¹. We directed our research to the synthesis of five membered ring with P-C-N unit **1** which could provide, after mono-, di-alkylation or Knoevenagel reactions on the 3-position and hydrolysis, a convenient procedure to synthesize a wide range of aminophosphonic acids **2**.



1. P. Kafarski, P. Mastalerz, *Beiträge zur Wirkstofforschung*, ed. P. Oehme, H. Loewe, E. Gores, J. Axt, Inst f. Wirkstofforschung, Berlin, Vol. 21 **1984**.