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## Phosphorus, Sulfur, and Silicon and the Related Elements

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### Unexpected Formation of $\alpha$ -(N-Methyl)-aminoalkanephosphonate

R. B. Nazarski<sup>a</sup>; R. Skowrnski<sup>a</sup>

<sup>a</sup> Institute of Chemistry, University of Łódź, Łódź, Poland

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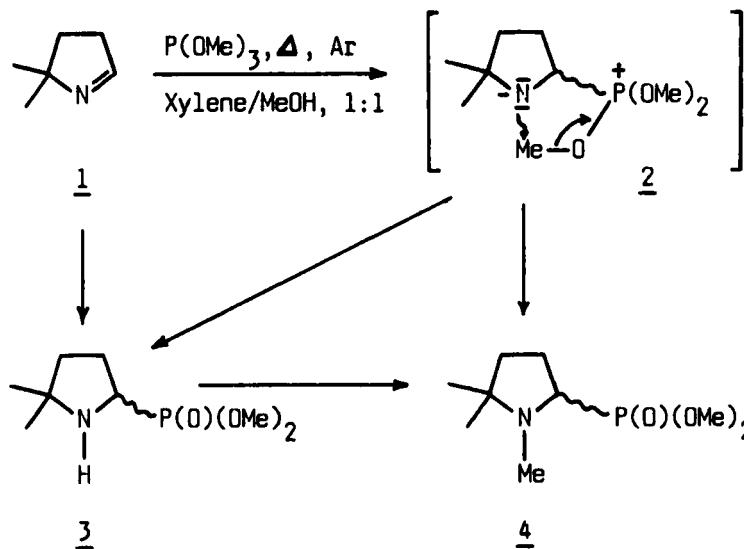
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## Unexpected Formation of $\alpha$ -(N-Methyl)-aminoalkanephosphonate<sup>1</sup>

R. B. Nazarski\* and R. Skowroński

Institute of Chemistry, University of Łódź,  
 Narutowicza 68, 90-136 Łódź, Poland

In contrary to a known<sup>2</sup> reaction of 2H-azirines with triethyl phosphite in the presence of ethanol, prolonged heating of 5,5-dimethyl-1-pyrroline 1 (or its 1-oxide) with trimethyl phosphite in methanolic medium yields a new ester 4,  $\delta_{\text{H}}(\text{CCl}_4)$  0.86 and 1.12 (2xMe, 2xs), 2.35 (NMe, s), 3.68, and 3.75 (2xOMe, 2xd, J=10.3 and 9.9 Hz)



The course of N-alkylation in the investigated system, which may occur via 2 and/or 3, will be discussed according to spectroscopic data.

(1) PAN Project CPBP 01.13.3.7.

(2) D.Redmore, Top.Phosphorus Chem., **8**, 515-583 (1976).