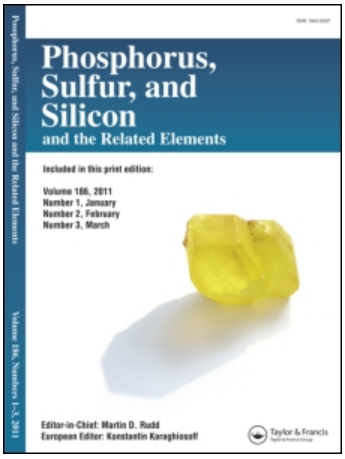

Phosphorus, Sulfur, and Silicon and the Related Elements
Publication details, including instructions for authors and subscription information:
http://www.informaworld.com/smpp/title~content=t713618290

The Phosphonylation of the Hydrazone C=N Double Bond

A. Seidel[a]; Ph. Thomas[a]; H. Hennig[a]
[a] Department of Chemistry, Karl Marx University, Leipzig, GDR

To cite this Article Seidel, A. , Thomas, Ph. and Hennig, H.(1990) 'The Phosphonylation of the Hydrazone C=N Double Bond', Phosphorus, Sulfur, and Silicon and the Related Elements, 51: 1, 306
To link to this Article: DOI: 10.1080/10426509008040840
URL: http://dx.doi.org/10.1080/10426509008040840

Phosphorus, Sulfur, and Silicon, 1990, Vols. 51/52, p. 306
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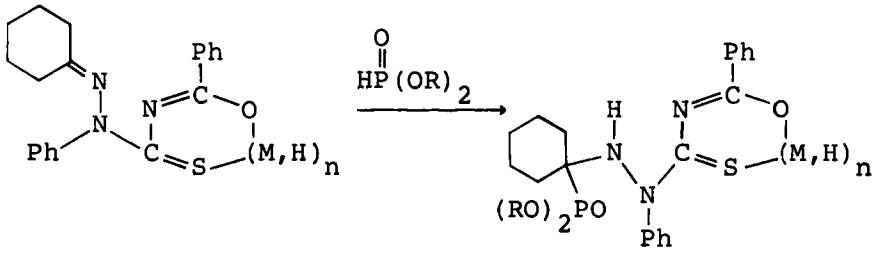
THE PHOSPHONYLATION OF THE HYDRAZONE C=N DOUBLE BOND

A.SEIDEL, Ph.THOMAS, and H.HENNIG
Department of Chemistry, Karl Marx University,
Leipzig, GDR

The direct phosphonylation of a hydrazone C=N double bond is reported for the first time.

We have accomplished the reaction of 4-benzoyl-1-cyclohexylidene-2-phenyl thiosemicarbazone and its metal complexes, respectively, with various dialkylphosphites according to equation (1).



(1)

All reactions were carried out in the temperature range between 90°C and 130°C in the absence of solvents. The reaction products were obtained in good yields and high purity.

The isolated new compounds were characterized by means of elemental analysis, IR, UV/VIS, mass and ^{1}H-NMR spectroscopy and magnetic measurements, respectively.