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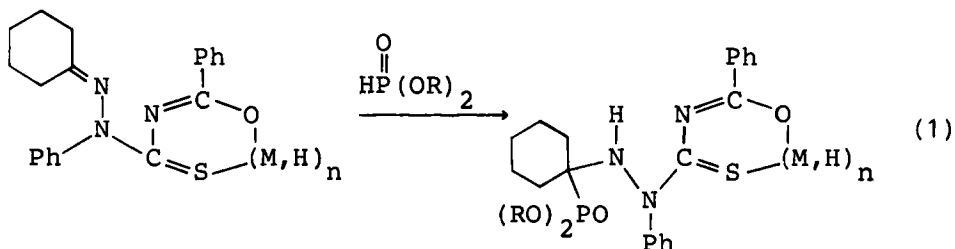
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THE PHOSPHONYLATION OF THE HYDRAZONE C=N DOUBLE BOND

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The direct phosphorylation 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).



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 ¹H-NMR spectroscopy and magnetic measurements, respectively.