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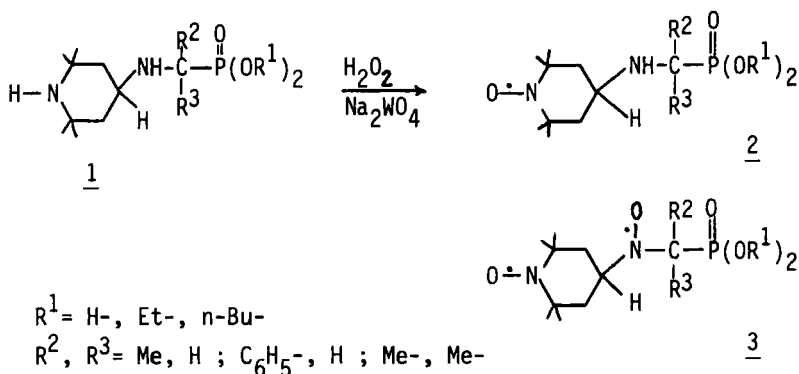
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Oxidation of N-(2,2,6,6-Tetramethyl-4-piperidiny)-aminoalkanephosphonates

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The N-(2,2,6,6-tetramethyl-4-piperidiny)aminoalkanephosphonates 1 were synthesized by the addition of dialkyl phosphonates to the imines of 4-amino-2,2,6,6-tetramethylpiperidine. Acid hydrolysis of the obtained esters 1 (R = Et) leads to the free aminoacids which were by exchange ion chromatography.



The oxidation of compounds 1 was performed using hydrogen peroxide solutions in the presence of disodium tungstate.

The influence of the structure of 1 and of the oxidation conditions upon the distribution into and the dinitroxyl derivatives 3 will be discussed.