

## **Three-dimensional structures of phosphorus-containing heterocycles. Communication 34. 2-Phenoxy-2-oxo-1-3,2-oxathiaphosphorinanes**

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### **Abstract**

According to the data from the  $^1\text{H}$  NMR spectra, the dipole moments, and the Kerr effect, the preferred conformation of 2-aroxy-2-oxo-1,3,2-oxathiaphosphorinanes is a chair conformation with an axial orientation of the aroxy grouping and a gauche orientation of the aryl group relative to the  $\text{P}=\text{O}$  bond on the side of the cyclic oxygen atom. In the investigated compounds the  $p-\pi$  conjugation is disrupted, as evidenced by the orthogonal orientation of the unshared pair of  $p$  electrons of the exocyclic oxygen atom and the  $\pi$  orbitals of the benzene ring. © 1985 Plenum Publishing Corporation.

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