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Geometrical structures of phosphorus-containing heterocyclic compounds - 17. 2-Chloro-1,3-2-dioxaphospholanes with a four-coordinated phosphorus atom

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Abstract

1. Dipole moments and Kerr constants have been determined for 2-chloro-2-oxo- and 2-chloro-2-thiono-1,3,2-dioxaphospholanes and their methyl analogs. 2. Comparison of experimental and calculated values has shown that the preferred ring form in these compounds is envelope conformation with the carbon atom projecting out from the plane of the four remaining ring atoms. 4,4,5,5-Tetramethyl-3,2-dioxaphospholane exists in half-chair conformation. © 1978 Plenum Publishing Corporation.

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