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Steric structure of phosphorus-containing heterocycles - Communication 4. Axial arrangement of the alkoxy group in 1,3, 2-dioxaphosphorinanes according to the data of the method of dipole moments

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Abstract

1. The dipole moment of 2-alkoxy- and 2-phenoxy-1, 3,2-dioxaphosphorinanes and their spiro analogs with a tricoordinated phosphorus atom were determined. 2. A graphical method was proposed for the analysis of the data of the method of dipole moments of cyclic compounds. 3. In all the compounds studied, a chair conformation with axial (or diaxial for the spiro compound) arrangement of the alkoxy group with a gauche-orientation of the methoxyl and ethoxyl radicals and a cisorientation of the phenoxy group is realized. © 1974 Consultants Bureau.

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