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Stereochemistry of heterocycles - XX. Synthesis, properties, and some questions of stereo-chemistry of 2,2,5-substituted 1,3-dioxanes

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Abstract

Some 2,5-dialkyl-2-methyl-1,3-dioxanes and 5-alkyl-2-methyl-2-phenyl-1,3-dioxanes have been synthesized. All the compounds studied consist of epimeric mixtures of geometric isomers the equilibrium in the course of the formation of which is shifted in the direction of the isomers with the diequatorial position of the largest substituents. The predominant conformation of the molecules of both isomers is the chair conformation. The cis isomers of the substances investigated consist of mixtures of conformers. © 1975 Plenum Publishing Corporation.

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