

Stereochemical transformations of some seven-membered pyridoxine dimethyl ketals

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Abstract

According to the data of single crystal X-ray diffraction analysis and computational methods, the seven-membered rings of acylated pyridoxine acetonides have C₂ symmetry. Two stereochemical transformations in solutions, enantiotopomerization of P-, M-conformations with spiral chirality of twist-boat forms and diastereotopomerization of structures that differ in the configuration of the phenolic oxygen substituents, were revealed by dynamic ¹H NMR spectroscopy. © 2007 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S1070363207080208>
