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Synthesis of Some Substituted 1,3,2-Oxazaphosphorinanes

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Synthesis of Some Substituted 1,3,2-Oxazaphosphorinanes

T.A.Mastryukova, A.B.Ouryoupin, M.I.Kadyko, P.V.Petrovskii, M.I.Kabachnik, A.Okruszek x, R.Kinas x, W.Stec

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To study the effect of statistically controlled associate diastereoisomerism (SCADA), the optical isomers of some derivatives of 2-amino-2-oxo-1,3,2-oxazaphosphorinane, containing the residues of L- \propto -aminoacids, were synthesized. The magnitude of chemical shift nonequivalence ($\triangle\delta$) in ³¹P NMR-spectra of diastereomeric mixtures was maximum for isomeric derivatives of valine; the dependence of $\triangle\delta$ ³¹P on their concentration was investigated.

The cyclisation reaction of 3-alkylaminopropanoles, containing N-bulky substituents, with POCl₃ at -40+ -20° in toluene was studied.

The enantiomeric 2-anilino-2-oxo-1,3,2-oxazaphosphorinanes

The effect of SCADA has been established by NMR in nonracemic mixtures of enantiomers of 2 or $1(S_c, S_p)$ and $1(R_c, R_p)$ at -50 - -20