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SYNTHESIS AND RING-CHAIN TAUTOMERISM OF STEREOISOMERIC 1,3-OXAZINES CONDENSED WITH A 1-BUTYL-SUBSTITUTED CYCLOPENTANE RING

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In a recent comparative study of alicyclic fused tetrahydro-1,3-oxazines1, we have found that the 2-aryl substituent has a characteristic effect on the ring-chain tautomerism. Earlier results2 were utilized to prepare new stereoisomeric t-butylcyclopentane 1,3-aminoalcohols 1 and 2.

Z = pNO2, mCl, H, pMe, pOMe, pNMe2

Through the condensation of stereoisomeric 1,3-aminoalcohols 1 and 2 with aromatic aldehydes, tautomeric mixtures of 1,3-oxazines (3A and 4A) and Schiff bases (3B and 4B) were obtained.

The effects of regio- and stereoisomerism, aromatic substituents and the t-butyl substituent will be analysed.

¹F. Fülöp, K. Pihlaja, J. Mattinen, G. Bernath, J. Org. Chem. 52, 3821 (1987); Tetrahedron 43, 1863 (1987). 2G. Bernáth, M. Svoboda, Tetrahedron 28, 3475 (1972).