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Stereochemistry of seven-membered heterocycles: XLV. Highly diastereoselective addition of dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate to 2-substituted 1,3-dithiacyclohept-5-enes

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Abstract

Conformationally heterogeneous 2-substituted 1,3-dithiacyclohept-5-enes (R = Ph, Me, t-Bu), which exist in solution as chair and boat conformers, react with dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate with high exo- diastereoselectivity: only the chair conformer is involved. The steric structure of 4-methyl-3,5-dithia-9,10-diazabicyclo[5.4.0]undeca-7,10-diene was determined by X-ray analysis. Its crystal packing and supramolecular structure were also analyzed. © 2006 Nauka/Interperiodica.

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