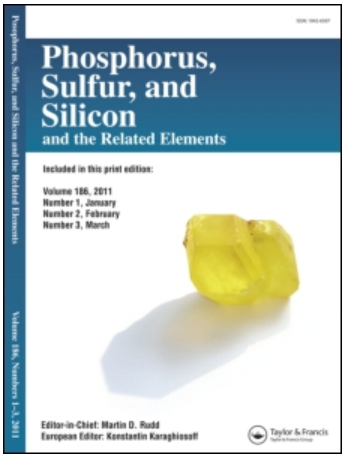

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SYNTHESIS AND PHYSICAL PROPERTIES OF 4-AZA-1,2-DITHIACYCLOHEXANE-5-ONES

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SYNTHESIS AND PHYSICAL PROPERTIES OF 4-AZA-1,2-DITHIACYCLOHEXANE-5-ONES

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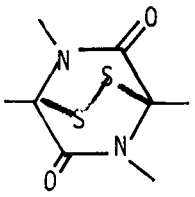
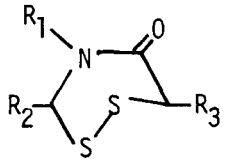
The epidithiopiperazinedione structure I, a common functionality in the natural products of the gliotoxin-sporidesmin class of compounds is believed to be responsible for the antiviral activity which this class possesses.

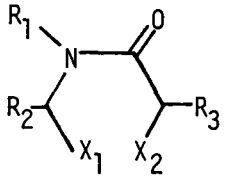
We became therefore interested in studying the monocyclic system 4-aza-1,2-dithiacyclohexane-5-ones (II) which as far as we know hitherto has not been described in the literature. Key intermediates for the synthesis of II are compounds of type III and different routes to III will be discussed.



I



II



III

From III, compounds II were obtained by reaction with potassium thioacetate followed by acid hydrolysis and oxidation with iodine. Spectral data and reduction potentials for II will be discussed.