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Phosphorus, Sulfur, and Silicon and the Related Elements

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713618290>

PREPARATION OF 6-THIA-3,8-DIAZABICYCLO/3,2,1/OCTAN-2-ONES

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To cite this Article Herak, J. J. , Kovačević, M. and Gašpert, B.(1979) 'PREPARATION OF 6-THIA-3,8-DIAZABICYCLO/3,2,1/OCTAN-2-ONES', Phosphorus, Sulfur, and Silicon and the Related Elements, 6: 1, 129

To link to this Article: DOI: 10.1080/03086647908080338

URL: <http://dx.doi.org/10.1080/03086647908080338>

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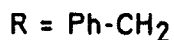
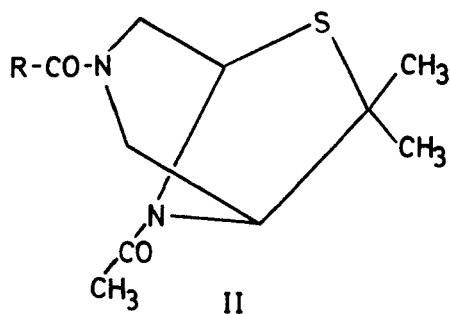
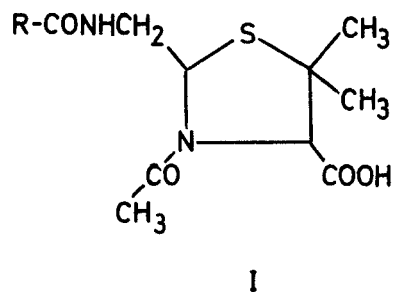
PREPARATION OF 6-THIA-3,8-DIAZABICYCLO[3,2,1]OCTAN-2-ONES

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Study of the isomerisation of penilloic acid in aprotic solvents revealed the epimerisation at position C-4, when opening of thiazolidine ring was prevented by N-acetyl group(I).

In the case of cis oriented carboxyl group in C-4 and amido group of substituent at position C-2, cyclization in piperidone ring occurred, to give 6-thia-3,8-diazabicyclo-3-phenylacetyl-8-acetyl-7,7-dimethyl/3,2,1/octan-2-one(II).



The mechanism and steric course of the epimerisation will be discussed.