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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>

STEROIDAL 2-AMINO-1,3,4-THIADIAZINES AND AMINOTHIAZOLES

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To cite this Article Catsoulacos, Panayotis and Kallias, Dimitrios(1979) 'STEROIDAL 2-AMINO-1,3,4-THIADIAZINES AND AMINOTHIAZOLES', *Phosphorus, Sulfur, and Silicon and the Related Elements*, 6: 1, 57

To link to this Article: DOI: 10.1080/03086647908080302

URL: <http://dx.doi.org/10.1080/03086647908080302>

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The reaction of 16-bromo-17-ketones and 2-bromo-3-ketones reacted readily-upon heating for short periods of time with thiosemicarbazide in isopropanol in a 1:2 ratio to give 2-amino-1,3,4-thiadiazines. Extension of this reaction to 21-bromo-3 β -hydroxy-5-pregnen-20-one produced the corresponding thiadiazine.

The treatment of 16-bromo-17-ketosteroids and 2-bromo-3-ketosteroids with thiourea in dimethylformamide gave the corresponding 2'-formamido-thiazoles. All the compounds were purified by column chromatography, and their structures were determined by both spectroscopic and elemental analyses. Some of the prepared compounds showed antimicrobial activity.