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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>

SYNTHESES AND TRANSFORMATIONS OF 2-AMINOTHIAZOLO (5,4-b)- AND -(4,5-c) PYRIDINES

A. Petrič^a; B. Stanovnik^a; M. Tišler^a

^a Department of Chemistry, University of Ljubljana, Ljubljana, Yugoslavia

To cite this Article Petrič, A., Stanovnik, B. and Tišler, M.(1979) 'SYNTHESES AND TRANSFORMATIONS OF 2-AMINOTHIAZOLO (5,4-b)- AND -(4,5-c) PYRIDINES', Phosphorus, Sulfur, and Silicon and the Related Elements, 6: 1, 239 – 240

To link to this Article: DOI: 10.1080/03086647908080393

URL: <http://dx.doi.org/10.1080/03086647908080393>

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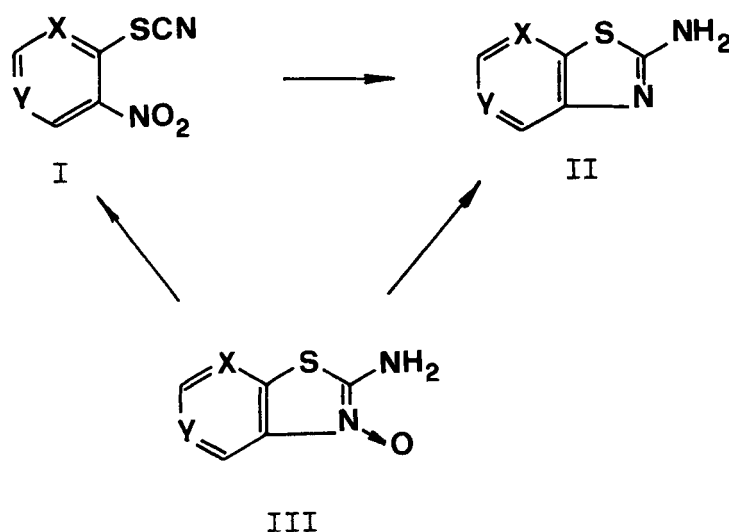
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SYNTHESES AND TRANSFORMATIONS OF 2-AMINOTHIAZOLO(5,4-b)- AND - (4,5-c) PYRIDINES

A. Petrič, B. Stanovnik, M. Tišler

Department of Chemistry, University of Ljubljana, Ljubljana,
Yugoslavia

Several approaches of 2-aminothiazolo(5,4-b)pyridine (II, X = N, Y = CH) and 2-aminothiazolo(4,5-c)pyridine (II, X = CH, Y = N) synthesis will be described. In one of them, the corresponding nitro-thiocyanatopyridines (I, X or Y = N, Y or X = CH) were reduced and subsequently cyclized to II. If reduction was attempted by hydrogenation and in the presence of palladized carbon and ethanol, the corresponding so far unknown 3-oxides (III) were formed. Deoxygenation can be achieved either with hydrogen in the presence of palladium catalyst or by TiCl_3 to give (II).



Several transformations of II will be described, some of them involving reactions at the 2-amino group and some of them invol-

ving formation of new tricyclic systems, for example IV.

