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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>

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To cite this Article Böshagen, H. and Geiger, W.(1979) 'REACTIONS WITH 3-CHLORO-1,2-BENZISOTHIAZOLIUM CHLORIDES: A NEW SYNTHESIS OF 3-AMINO-BENZO [B] THIOPHENES', *Phosphorus, Sulfur, and Silicon and the Related Elements*, 6: 1, 43

To link to this Article: DOI: 10.1080/03086647908080295

URL: <http://dx.doi.org/10.1080/03086647908080295>

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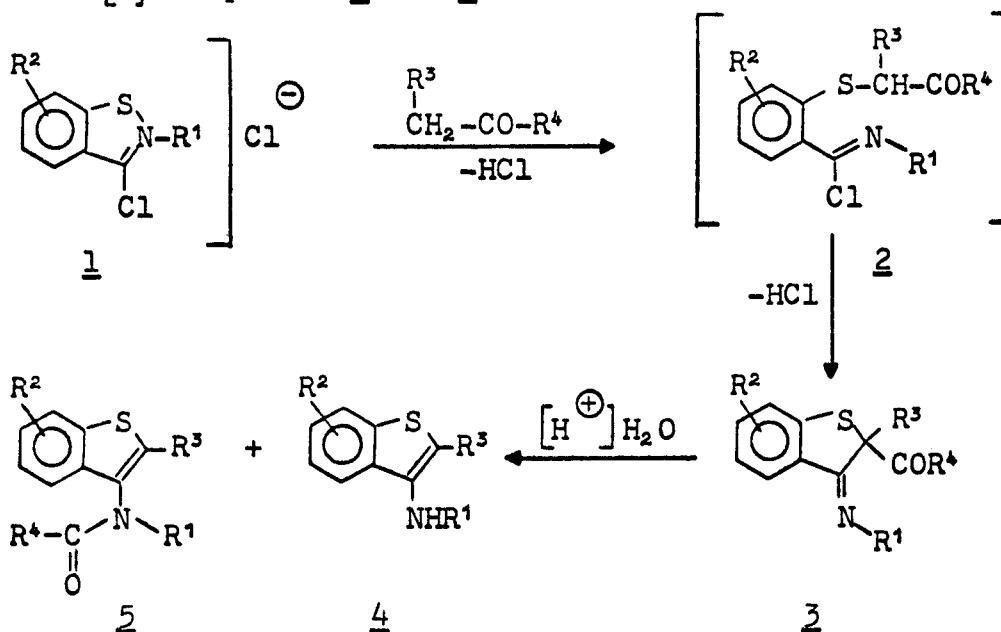
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REACTIONS WITH 3-CHLORO-1,2-BENZISOTHIAZOLIUM CHLORIDES:
A NEW SYNTHESIS OF 3-AMINO-BENZO[b]THIOPHENES

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3-Chloro-1,2-benzisothiazolium chlorides 1 react with activated methylene groups of ketones. Via a ring-opened intermediate 2, 2,3-dihydro-3-imino-benzo[b]thiophenes 3 are obtained, which may be cleaved to the 3-amino-benzo[b]thiophenes 4 and 5.



R¹, R³, R⁴ = Alkyl,
Aryl
R² = H, Hal

Cyclic ketones may also be used in this reaction. Good yields are then obtained of tricyclic derivatives corresponding to 5.