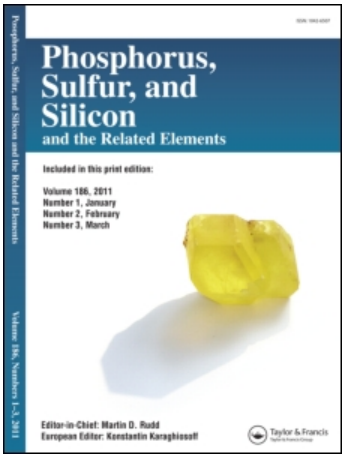


Phosphorus, Sulfur, and Silicon and the Related Elements
Publication details, including instructions for authors and subscription information:
http://www.informaworld.com/smpp/title~content=t713618290

A NEW SYNTHESIS OF β-FURYL THIOETHERS

A. Palković[a]; M. Poje[a]; K. Balenović[a]
[a] Department of Organic Chemistry, University of Zagreb, Zagreb, Croatia, Yugoslavia

To cite this Article Palković, A. , Poje, M. and Balenović, K.(1979) 'A NEW SYNTHESIS OF β-FURYL THIOETHERS', Phosphorus, Sulfur, and Silicon and the Related Elements, 6: 1, 229
To link to this Article: DOI: 10.1080/03086647908080388
URL: http://dx.doi.org/10.1080/03086647908080388

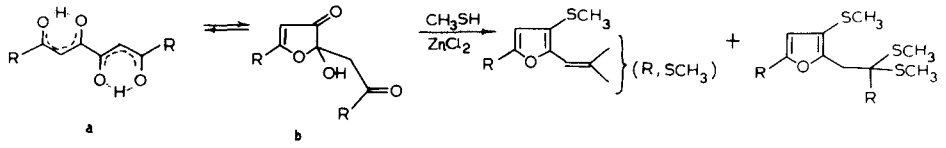
Phosphorus and Sulfur
1979, Vol. 6, p. 229

A NEW SYNTHESIS OF β-FURYL THIOETHERS

A. Palković, M. Poje and K. Balenović

Department of Organic Chemistry, University of Zagreb, Strossmayerov trg 14, 41000 Zagreb, Croatia, Yugoslavia

An efficient route to β-furyl thioethers 2 and 3 was developed by reaction of oxalyldiacetophenone 1 with methylmercaptan in presence of $ZnCl_2$:



1 2 3

Structures of products 2 and 3 were consistent with spectral data, and on desulphurization with Raney nickel they gave the same 2-phenyl-5-(β-phenylethyl)-furan (4).

The mechanism of the reaction of tetraketones 1 with mercaptan presumably involves the reductive elimination of the α-hydroxy group in the cyclic form 1b of the ring-chain tautomerism in the 1,3,4,6-tetraketone series.