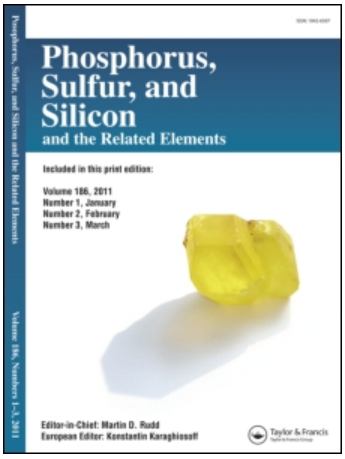

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THIOPHENES CONDENSED WITH TELLURIUM HETEROCYCLES

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THIOPHENES CONDENSED WITH TELLURIUM HETEROCYCLES

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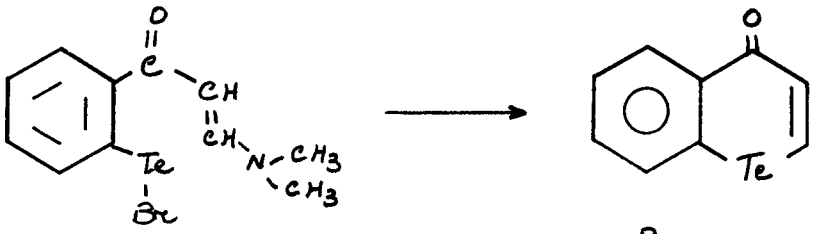
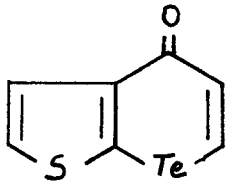
Tellurochromone B is obtained by intramolecular cyclisation of 1-(o-bromo tellurobenzoyl) 2-dimethylaminoethylene A, by means of hypophosphorous acid.

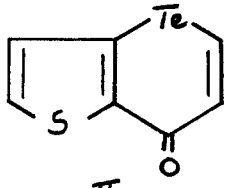


A. B.

Extension of this synthesis is realised to thenoyl analogues and leads to the three corresponding tellurino thiophenes (2,3-b; 3,2-b and 2,3-c) (I, II, III). With a greater molecular ratio H_3PO_2/tellurenylhalide, the reaction evolves to the dihydro corresponding compound of type IV. The mechanism of this reaction, which can be more easily studied in thiophene series by NMR investigations, is discussed with the aid of deuterium labeled hypophosphorous acid.



I.



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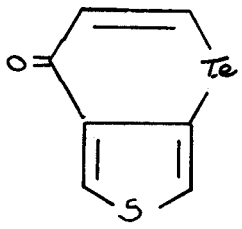

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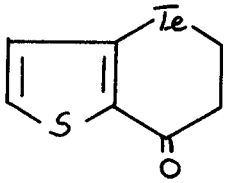

IV.