

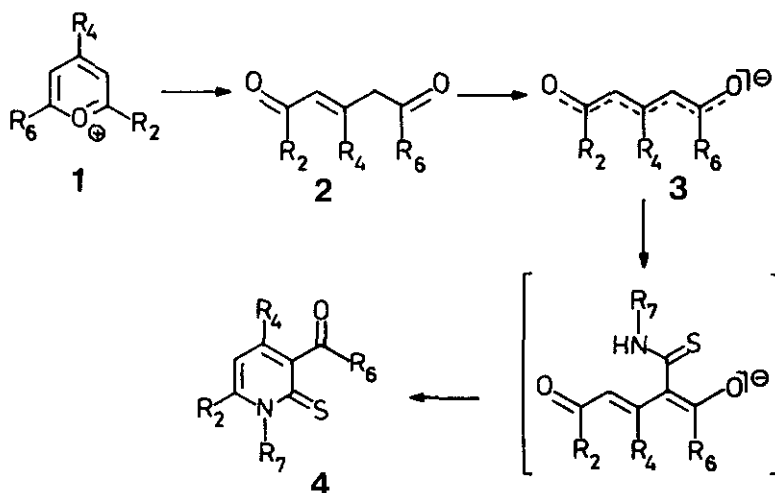
A NEW SYNTHESIS OF SUBSTITUTED
2(1H)PYRIDINETHIONES FROM ENOLATES OF 1,5-ENEDIONES OBTAINED VIA
PYRYLIUM SALTS.

Jan Becher, Fahmy M. Asaad and Henning Nissen

Department of Chemistry, Odense University,

DK-5230 Odense M, Denmark

A general method for the preparation¹ of 3,4 or 6-substituted-2(1H)pyridinethiones (4) in high yields from the glutaconaldehyde enol salts (3) is described. Such enol salts² may conveniently be obtained from pyrylium salts (1) by ring opening with base to the 1,5-enediones (2), followed by preparation of the enol salts (3) under anhydrous conditions and final reaction with isothiocyanates to the title compounds 4:



1. J. Becher and H. Nissen, Sulfur Letters 2 (1983) in press.
2. For a review on glutaconaldehyde see: J. Becher, Synthesis 589 (1980).