

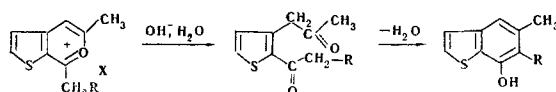
PREPARATION OF 7-HYDROXY DERIVATIVES OF THIONAPHTHENE. NEW ROUTE FOR THE SYNTHESIS OF THE THIONAPHTHENE SYSTEM

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We have found that thieno[2,3-c]pyrylium salts, which are readily obtained by the acylation of  $\beta$ -acetylthiophene [1, 2], undergo cleavage of the pyrylium ring under the action of alkalis, and the 3-acetyl-2-acylthiophenes so formed then recyclize with the formation of 7-hydroxy derivatives of thionaphthene:



The reaction is carried out by heating aqueous ethanolic solutions of thienopyrylium salts with an excess of caustic soda. In this way we have obtained 7-hydroxy-5-methylthionaphthene (mp 68° C) and 7-hydroxy-5,6-dimethylthionaphthene (mp 99–100° C), the structure of which was shown by IR and NMR spectroscopy.

REFERENCES

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