

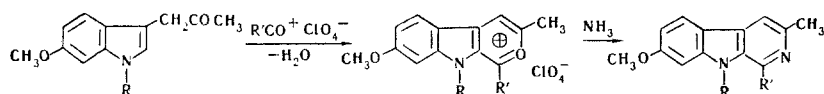
PREPARATION OF SYNTHETIC ANALOGS OF HARMINE

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UDC 547.752'812'821:543.422.4

The recently obtained indolo[2,3-c]pyrylium salts [1] are primarily of interest in connection with the possibility of the synthesis from them of several harman derivatives.

We have shown that 7-methoxy-substituted indolo[2,3-c]pyrylium salts are similarly formed in the reaction of 3-acetyl-6-methoxyindole with acyl perchlorates. The products are converted to harmine homologs on treatment with ammonia.



Thus we have obtained methylharmine ($R = H$, $R' = CH_3$) and dimethylharmine ($R = R' = CH_3$). The investigations will be continued in the direction of the synthesis of harmine itself, which has high biological activity, as well as various synthetic analogs of it.

LITERATURE CITED

1. G. N. Dorofeenko and L. V. Dulenko, *Khim. Geterotsikl. Soedin.*, 417 (1969).

Donets Physical-Organic Chemistry Branch, Institute of Physical Chemistry, Academy of Sciences of the Ukrainian SSR. Translated from *Khimiya Geterotsiklicheskikh Soedinenii*, No. 4, p. 568, April, 1971. Original article submitted September 14, 1970.

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