NEW SYNTHESIS OF 2-HYDROXYTHIAZOLO[4,5-d]PYRIDO[1,2-a]PYRIMIDINE DERIVATIVES

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It has been previously noted that betaines are capable of exchanging one cation for another by the action on them of an excess of the corresponding heterocyclic base [1].

We have observed that I reacts with 2-aminopyridine under these conditions to give 2-hydroxythiazolo[4,5-d]pyrido[1,2-a]pyrimidine (II) in 95% yield.

When mineral acids are replaced by acetic acid, this reaction leads primarily to azomethines of 5-formylthiazoline-2,4-dione. Compound II is identical to the compound previously obtained by the reaction of the betaine with ammonia [2].

LITERATURE CITED

- 1. R. O. Kochkanyan, and N. V. Spitsyn, Summaries of Papers Presented at the 14th Ukrainian Republican Conference on Organic Chemistry [in Russian], Odessa (1982), p. 133.
- 2. R. O. Kochkanyan, G. I. Belova, V. S. Garkusha-Bozhko, A. N. Zaritovskii, and S. N. Baranov, Khim. Geterotsikl. Soedin., No. 10, 1426 (1975).

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