## REACTION OF AMINOSULFENATES WITH ACYL CHLORIDES

B. M. Musin, V. B. Ivanov, and B. E. Ivanov UDC 542.91:547.368'233:547.297: 547.582.1

We have established that the reaction of aminosulfenates (I) with acyl chlorides (II) at 20-25°C gives good yields of amino-N-sulfenyl chlorides (III) and the corresponding esters (IV):

$$\begin{array}{c} R_2N-S-OMe + R'C(0)Cl \rightarrow R_2N-S-Cl + R'C(0)OMe \\ (I) & (II) & (III) & (IV) \\ R = Et (a), R + R = (CH_2)_5 (b), (CH_2)_2O(CH_2)_2 (c); R' = Me (a), Ph (b) \end{array}$$

The reactions and work-up of the reaction mixtures were carried out in a dry argon atmosphere. Pure (III) and (IV) were isolated after vacuum distillation and had physical indices corresponding to literature values [1, 2]. The volatile components in the distillations were condensed using a liquid nitrogen trap. Product (IIa) was obtained in 62% yield, bp  $66-67^{\circ}C$  (10 mm),  $n_D^{2^{\circ}}$  1.5070. Product (IIIb) was obtained in 84% yield, bp 52-53°C (0.2 mm),  $n_D^{2^{\circ}}$  1.5460. Product (IIIc) was obtained in 70% yield, bp 55-56°C (0.4 mm),  $n_D^{2^{\circ}}$  1.5490.

## LITERATURE CITED

- 1. D. A. Armitage and I. D. H. Towle, Phosphorus and Sulfur, 1, 37 (1976).
- 2. Handbook on the Properties of Organic Compounds [in Russian], Izd. Khimiya, Leningrad (1984).

A. E. Arbuzov Institute of Organic and Physical Chemistry, Kazan Branch, Academy of Sciences of the USSR. Translated from Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No. 7, p. 1693, July, 1988. Original article submitted February 24, 1988.