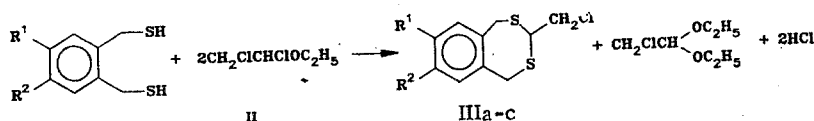


SYNTHESIS OF 3-(CHLOROMETHYL)-SUBSTITUTED BENZO[c]-2,4-DITHIEPINS

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We have found that α,β -dihalo ethers can be used successfully to obtain 3-(haloalkyl)-substituted benzo[c]-2,4-dithiepins. Thus, in the reaction of dithiols Ia-c with α,β -dichloroethyl ether (II) in the presence of water as an initiator, we obtained 1,5-dihydro-3-(chloromethyl)-3H-benzo[c]-2,4-dithiepin (IIIa), 1,5-dihydro-3-(chloromethyl)-7,8-dimethyl-3H-benzo[c]-2,4-dithiepin (IIIb), and 1,5-dihydro-3-(chloromethyl)-7,8-ethylenedioxy-3H-benzo[c]-2,4-dithiepin (IIIc)



I, III a $\text{R}^1=\text{R}^2=\text{H}$; b $\text{R}^1=\text{R}^2=\text{CH}_3$; c $\text{R}^1=\text{R}^2=-\text{OCH}_2\text{CH}_2\text{O}-$

The IR spectra of compounds IIIa-c contained characteristic absorption bands at 550 (C-S) and 710 cm^{-1} (C-Cl). The purity of the substances was monitored by thin-layer chromatography on Silufol UV-254 plates. For the synthesized compounds, the following are given: compound, yield %, mp $^{\circ}\text{C}$: IIIa, 69, 110-112; IIIb, 72, 152-154; IIIc, 76, 180-182. The data of elemental analysis of compounds III correspond to the calculated ones. The physico-chemical characteristics of substance IIIb are identical to the previously described ones [1].

LITERATURE CITED

1. H. Gross, J. Keitel, and B. Costisella, J. Prakt. Chem., 320, 255 (1978).