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Organic derivatives of antimony. IV. Association of alkoxy and chloroalkoxy derivatives of antimony (III) and (V)

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Abstract

1. Chlorotetramethoxyantimony was obtained by the action of acetyl chloride on pentamethoxyantimony. 2. Triethoxy-, tripropoxy-, and triisobutoxyantimony are partially associated under conditions of cryoscopy in cyclohexane, while triisopropoxy- and tri-*tert*-butoxyantimony are monomeric. Under ebullioscopy conditions in CCl₄, 2-ethoxy-4-methyl-1,3,2-dioxastibinane exists in a monomeric form. 3. According to the data of cryoscopic and ebullioscopic measurements, pentaethoxyantimony exists in benzene in a dimeric form. Dimers of tetrachloromethoxy-, trichlorodimethoxy-, and dichlorotrimethoxyantimony are partially dissociated in benzene. © 1979 Plenum Publishing Corporation.

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