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Unsymmetrical Organoantimony Compounds (Abstract)

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UNSYMMETRICAL ORGANOANTIMONY COMPOUNDS

(ABSTRACT)

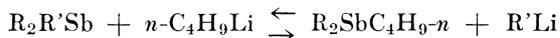
L. A. WOODS AND HENRY GILMAN

A series of unsymmetrical organoantimony compounds has been prepared by the following reactions, the first being in ether and the second in liquid ammonia.



Among the $\text{R}_2\text{R}'\text{Sb}$ compounds prepared by these procedures are diphenyl- α -naphthylantimony (m.p., 99-100°), diphenylmesityl-antimony (m.p., 92-93°) and diphenyl-*p*-chlorophenylantimony.

The unsymmetrical organoantimony compounds are being examined in connection with studies on resolution, physiological action, and rates of cleavage. One of the cleavage reactions is effected by means of organolithium compounds,



the nature and extent of cleavage being established by the carboxylic acids isolated subsequent to carbonation. The result of such cleavage reactions are compared with other findings from this laboratory, particularly with organometallic compounds of tin, lead and bismuth.

One of the new procedures used for the preparation of diarylantimony chlorides involved the reduction of diarylstibonic acids ($\text{R}_2\text{SbO}_2\text{H}$) by means of stannous chloride.

AMES, IOWA.