Short Communication

Registration Code of Publication: 14-39-7-139

Publication is available for discussion within the functioning of the permanent internet-Conference "New methods of synthesis, structure and application of organoelemental compounds" http://butlerov.com/synthesys/

Contributed: October 21, 2014.

Synthesis and structure of tetraphenylantimony hydrogen succinate

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*Supervising author; ⁺Corresponding author *Keywords:* tetraphenylantimony hydrogen succinate, synthesis, structure.

Abstract

Interaction of equimolar amount of pentaphenylantimony with succinic acid in benzene resulted in obtaining tetraphenylantimony hydrogen succinate (I) with the yield of 97%, According to the data of X-ray, the atom of antimony in molecule I has a deformed trigonal-bipyramidal coordination, the atoms of oxygen and carbon being located in the axial positions. The distances Sb-Cekv, Sb-Cax, Sb-O and angle CaxSbOax are equal to 2.111(2), 2.111(2), 2.121(2); 2.169(2), 2.302(1) Å and 175.78(7)° respectively.