**Full Paper** 

*Registration Code of Publication:* 13-36-10-52 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: August 27, 2013.

## Synthesis and structure

## of $\mu$ -oxo-bis[triphenyl(2,6-dichlorophenoxy)antimony] and $\mu$ -oxo-bis[triphenyl(2,6-dibromo-4-nitrophenoxy)antimony]

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*Keywords:* synthesis, structure, compounds, (*Ph*<sub>3</sub>SbOAr)<sub>2</sub>O.

## Abstract

As a result of the reaction of triphenylantimony with 2,6-dichlorophenol and 2,6-dibromo-4-nitrophenol in the presence of hydrogen peroxide in water-ether solution there were prepared  $\mu$ -oxo-bis[triphenyl(2,6dichlorophenoxy)antimony ] (I) and µ-oxo-bis[triphenyl(2,6-dibromo-4-nitrophenoxy)antimony] (II) with the yield up to 92%. In I and II SbOSb angles make up 142.7(6)° and 147.6(6)°. Antimony atoms have a distorted trigonal-bipyramidal coordination. Atomic bonds of antimony with the bridging oxygen atom [1.969(2), 1.973(2) Å (I) and 1.950(10), 1.968(9) Å (II)] are shorter than with the oxygen atoms of Ar-groups [2.135(2), 2.156(2) Å (I) and 2.204(11), 2.223(12) Å (II)].