

**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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**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(2,6-dichlorophenoxy)antimony] (**I**) and  $\mu$ -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**)].