

## Features of the structure of 4-nitro phenoxide tetraphenylantimony

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### Abstract

By interaction of *bis*(4-nitrophenoxy)triphenylantimony with pentaphenylantimony there was synthesized 4-nitrophenoxide tetraphenylantimony with the yield 98%. According to the data of X-ray diffraction analysis, antimony atoms in two crystallographically independent molecules **Ia**, **Ib** have distorted trigonal-bipyramidal coordination. Axial angle CSbO and sums of angles CSbC in the equatorial plane are equal to 177.97(7)° and 357.16° (**Ia**), 176.95(7)° and 357.07(7)° (**Ib**). Bond lengths Sb–O and Sb–C make up 2.208(1) and 2.116(2), 2.117(2), 2.118(2), 2.171(2) Å (**Ia**), 2.224(1) and 2.108(2), 2.114(2), 2.129(2), 2.165(2) Å (**Ib**). Features of the structure of tetraphenylantimony aroxide were discussed.