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Synthesis and structure of solvate *bis*(2,6-dichlorophenoxy) triphenylantimony with hexane

© Vladimir V. Sharutin,^{*+} Olga K. Sharutina, and Ksenia V. Matveeva

Chemistry Faculty. South Ural State University. Lenin St., 76. Chelyabinsk, 454080. Russia.

Phone: +7 (351) 267-95-70. E-mail: vvsharutin@rambler.ru

^{*}Supervising author; ⁺Corresponding author

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Abstract

With the reaction of 2,6-dichlorophenol with triphenylantimony in the presence of tertiary butyl hydroperoxide in hexane in 95% yield solvate with hexane we synthesized *bis*(2,6-dichlorophenoxy) triphenylantimony (**I**), in which the molecules are antimony atoms distorted trigonal-bipyramidal coordination. OSbO axial angles and the sum of the angles CSbC in the equatorial plane are 178.4(6)° and 360°. The bond lengths Sb-O and Sb-C constitute 2.079(3), 2.084(2) Å and 2.095(4), 2.102(5), 2.111(5) Å. Distances C–O are 1.324(5), 1.338(5) Å; angles CSbC (114.5(6)°, 122.2(6)°, 123.6(6)°) are close to the ideal value (120°).