

Synthesis and structure of μ -oxobis[(4-iodphenoxo)tri-*n*-tolylantimony] [(4-MeC₆H₄)₃SbOC₆H₄I-4)]₂O

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Abstract

Oxidation of tri(*p*-tolyl)antimony with hydrogen peroxide in ether in the presence of 4-iodphenol (1:1:1 mol.) is obtained μ -oxobis[(4-iodphenoxo)tri-*p*-tolylantimony], in a centrosymmetric linear molecule which Sb atoms have a distorted trigonal-bipyramidal coordination with aryl ligands in equatorial positions, the bridging oxygen atom and aroxoligand in axial positions. Bond lengths of Sb-C, Sb-O_{bridge}, Sb-O_{arox} and angle SbOSb equal to 2.097(7)-2.114(7)Å; 1.9978(6), 2.126(5)Å and 180°.