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Synthesis and structure of tetra-*m*-tolylantimony bromide

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Abstract

Interaction of the tri-*m*-tolylantimony dibromide with *m*-tolylmagnesiumbromide resulted in obtaining tetra-*m*-tolylantimony bromide (**I**). According to X-ray data, the crystal **I** possess two types of independent trigonal-bipyramidal molecules with a bromine atom in the axial position. Bond lengths Sb-C, Sb-Br, CSbC, equatorial angles and BrSbC axial angles are equal to 2.117(5)-2.165(5); 2.8803(8), 2.9390(8) Å; 118.3(2)-119.6(2)° and 174.9(1)°, 171.9(2)°.