

Synthesis and structure of μ -oxo[tris(2-methoxy,5-bromophenyl)trifluoroacetatoantimony]

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Abstract

μ -Oxo[tris(2-methoxy,5-bromophenyl)trifluoroacetatoantimony] is obtained in 92% yield from equimolar amounts of tris(2-methoxy,5-bromophenyl)antimony, trifluoroacetic acid and hydrogen peroxide. According to preliminary data of X-ray analysis antimony atoms in molecules have a trigonal-bipyramidal coordination with the oxygen atoms in axial positions. Bond lengths of Sb-C, Sb-O_{bridge}, Sb-O_{term} and the angle SbOSb are 2.106(10)-2.139(11); 1.919(10), 1.932(10); 2.135(12)-2.334(12) Å and 168.05(8)° respectively.