

Synthesis and structure of μ -oxo-bis-[(trifluoroacetato)-(tri-*m*-tolyl)antimony][(C₆H₄Me-3)₃SbOC(O)CF₃]₂O

© Vladimir V. Sharutin,^{*+} Olga K. Sharutina, and Vladislav S. Senchurin

Department of Organic Chemistry. Chemistry Faculty. South Ural State University. Pr. Lenin, 76.

Chelyabinsk, 454080. Russia. Phone: +7 (351) 267-95-70. E-mail: vvsharutin@rambler.ru

^{*}Supervising author; ⁺Corresponding author

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Abstract

By reaction of (tri-*m*-tolyl)antimony with trifluoroacetic acid in the presence of hydrogen peroxide in aqueous-ether solution we obtained μ -oxo-bis-[(trifluoroacetate)(tri-*m*-tolyl)antimony] (**I**) with the yield of 91%. In the dinuclear molecule **I** SbOSb angle is 146.0(5)°. Antimony atoms have a distorted trigonal-bipyramidal coordination. Distances Sb-C vary in the range 2.086(7)-2.118(7) Å. Bonds of the antimony atom with bridging oxygen atom [1.962(6), 1.957(6) Å] are shorter than with oxygen atoms of trifluoroacetate groups [2.209(5), 2.209(5) Å].