Full Paper _____ *Thematic Section:* Preparative Research.
Registration Code of Publication: 14-38-5-132 *Subsection:* Organoelemental Chemistry.
Publication is available for discussion within the functioning of the permanent internet-
Conference "New methods of synthesis, structure and application of organoelemental compounds"
http://butlerov.com/synthesys/
Contributed: August 20, 2014.

Crystal and molecular structure tetra-*p*-tolylantimony dibenzoylmethanate

© **Vladimir V. Sharutin**,*[+] and **Olga K. Sharutina**
Faculty of Chemistry. National Research South Ural State University. Lenina St., 76.
Chelyabinsk, 454080. Russia. Phone: +7 (351) 267-95-70. E-mail: vvsharutin@rambler.ru

*Supervising author; [+]Corresponding author
Keywords: *tetra-p-tolylantimony dibenzoylmethanate, structure.*

Abstract

We carried out X-ray analysis of the crystal benzene solvate dibenzoylmethanate tetra-*para*-tolylantimony *p*-$Tol_4SbacacPh_2 \cdot PhH$, in two crystallographically independent molecules which antimony atoms have distorted octahedral coordination (axial angles CSbC and CSbO are 159.9(2)° and 165.24(14)-169.51(15)°). Bond lengths Sb–C vary in the range 2.148(6)-2.165(5) Å, in the heterocycles (SbO_2C_3) Sb-O and O-C distance are 2.240(6)-2.313(6) and 1.267(6)-1.281(6) Å, respectively.