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## Synthesis and structure of the complex of antimony $[(HOCH_2CH_2)_3NH]^+_4 [Sb_4I_{16}]^{4-}$

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**Keywords:** complex  $[(HOCH_2CH_2)_3NH]^+_4$   $[Sb_4I_{16}]^{4-}$ , synthesis, structure.

## **Abstract**

The interaction of equimolar amounts of iodide trietanolammoniya iodide and antimony in the solution of acetone synthesized complex  $[(HOCH_2CH_2)_3NH]^+_4[Sb_4I_{16}]^{4-}$ , whose structure is determined by X-ray. Cation of the complex have little distorted tetrahedral structure, antimony atoms in the anions have a coordination number of 6. In the crystals of the complex is the intra-and intermolecular contacts, which form the structure.