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Synthesis and structure of 4-methyl-benzenesulfonate tetraphenylbismuth

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Abstract

By interaction of pentaphenylbismuth with 4-methylbenzenesulfonate diphenylbismuth we obtained 4-methylbenzenesulfonate tetraphenylbismuth which structure was established by X-ray. Bi atom in the compound has a distorted trigonal-bipyramidal coordination with tosylate substituent in the axial position. Bond lengths of Bi-C are equal to 2.192(2)-2.225(2) Å, Bi-O distance and the magnitude of the axial angle CBiO constitute 2.759(2) Å and 171.6(1)° respectively.