

Structural features of triarylbismuth compounds

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

Department of Chemistry. National Research South Ural State University. Avenue 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

According to X-ray analysis, bismuth atoms in the molecules of *tris*(3-methylphenyl)bismuth have tetragonal coordination with the carbon atoms and unshared electron pair at the vertices of a tetrahedron. Lengths Bi-C bonds and C-Bi-C angles are 2.216(8), 2.222(8), 2.293(9) Å and 93.8(3)°, 95.3(3)°, 96.7(3)°, respectively. Geometric characteristics of molecules of triarylbismuth compounds were analyzed, and the factors that influence the value of Bi-C bond lengths and C-Bi-C bond angles were identified.