

(N-Benzyl-N-isopropyldithiocarbamato)-chloridodiphenyltin(IV)

ABSTRACT

The Sn^{IV} atom in the title organotin dithiocarbamate, [Sn(C₆H₅)₂(C₁₁H₁₄NS₂)Cl], is penta-coordinated by an asymmetrically coordinating dithiocarbamate ligand, a Cl and two ipso-C atoms of the Sn-bound phenyl groups. The resulting C₂ClS₂ donor set defines a coordination geometry intermediate between square-pyramidal and trigonal-bipyramidal with a slight tendency towards the latter. The formation of close intramolecular C–H[cdots, three dots, centered]Cl and C–H[cdots, three dots, centered]S contacts precludes the Cl and S atoms from forming significant intermolecular contacts. The presence of C–H[cdots, three dots, centered]π contacts leads to the formation of supramolecular arrays that stack along the b axis.

Keyword: single-crystal X-ray