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Reaction of the sodium salt of octantetraone-2,4,5,7 with chloride tetraphenylantimony

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Abstract

Tetraphenylantimony chloride, reacting with the sodium salt of octantetraone-2,4,5,7 (2:1 mol.) in tetrahydrofuran synthesized organoantimony complex, which structure after recrystallization from chloroform identified by X-ray. It is shown that the coordination of the antimony atoms in the two crystallographically independent centrosymmetric molecules of the binuclear chelate-foot complex is distorted octahedral, *trans*-angles CSbC and CSbO vary in the range 158.2(5)-169.4(4)°, bond lengths are Sb-C 2.133(11)-2.175(17) Å. In the six-membered metallacycles [SbO₂C₃] distance Sb-O are 2.209(10)-2.344(8) Å, O-C 1.258(17)-1.300(17) Å, C-C 1.360(20)-1.380(20) Å.