

Tetrazinn(II)- und Bariumtrizinn(II)-tetrakis[μ_3 -tri-*tert*-butylsilylphosphandiid]-Verbindungen mit einem Tetrametallatetraphosphacuban-Gerüst

Tetratin(II) and Barium Tritin(II) Tetrakis[μ_3 -tri-*tert*-butylsilylphosphandiide] Compounds with a Tetrametallatetraphosphacubane Core

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Z. Naturforsch. **53 b**, 1489–1493 (1998); eingegangen am 3. Juli 1998

Arene Complexes, Barium, Heterocubanes, Phosphorus, Tin

The metalation of tri-*tert*-butylsilylphosphane with bis[bis(trimethylsilyl)amino]stannylen yields nearly quantitatively the tetrameric tin(II) tri-*tert*-butylsilylphosphandiide with a central Sn₄P₄ cubane moiety. Barium bis[tri-*tert*-butylsilylphosphanide] is accessible *via* the reaction of tri-*tert*-butylsilylphosphane with barium bis[bis(trimethylsilyl)amide] in the molar ratio 2:1. This phosphanide reacts with bis[bis(trimethylsilyl)amino]stannylen to give barium tritin(II) tetrakis[μ_3 -tri-*tert*-butylsilylphosphandiide]. Crystallographic data of **1**: $P 2_1 2_1 2_1$, $T = 193$ K, $a = 1532.6(3)$, $b = 2120.2(4)$, $c = 2194.0(5)$ pm, $V = 7.129(3)$ nm³, $Z = 4$, $R_1 = 0.0360$ (9132 observed data [$I > 2\sigma(I)$]), $wR2 = 0.1064$ (all data); crystallographic data of **3**: $P 2_1/c$, $T = 193$ K, $a = 1927.35(1)$, $b = 1799.27(2)$, $c = 2201.35(2)$ pm, $\beta = 93.010(1)^\circ$, $V = 7.6234(1)$ nm³, $Z = 4$, $R_1 = 0.0321$ (11993 observed data [$I > 2\sigma(I)$]), $wR2 = 0.0772$ (all data).

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