Bildung und Struktur von Tris(diphenylstibino)amin

Formation and Structure of Tris(diphenylstibino)amine

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Z. Naturforsch. **56 b,** 1325–1327 (2001); eingegangen am 5. September 2001

Tris(stibino)amine, Nitrogen Configuration

Tris(diphenylstibino)amine $(Ph_2Sb)_3N$ (**1**) is formed in 49.5% yield by ammonolysis of Ph_2SbCl in liquid NH_3, and as a side product of the synthesis of Ph_4Sb_2 by reactions of Ph_3Sb with Na and $BrCH_2CH_2Br$ in liquid NH_3. The structure of **1** was determined by single crystal X-ray diffraction. The crystals consist of molecules with an almost planar Sb_3N core (sum of the angles at nitrogen: 352.14°).