

# The Molecular Structure of Tris(dimethylstibino)amine

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Z. Naturforsch. **53b**, 1386–1387 (1998);  
received September 7, 1998

Tris(stibino)amine, Aminostibine, Nitrogen  
Configuration, Planarity of Nitrogen

Tris(dimethylstibino)amine  $\text{N}(\text{SbMe}_2)_3$  is formed during reactions of sodium dimethylstibide with haloalkanes in liquid ammonia. It forms colourless monoclinic crystals,  $a = 12.108(1)$ ,  $b = 6.663(1)$ ,  $c = 16.891(2)$  Å,  $\beta = 101.12(1)^\circ$ ,  $\text{P}2_1/c$ ,  $Z = 4$ , at  $-78^\circ\text{C}$ . The lattice contains independent molecules with a planar  $\text{NSb}_3$  core (sum of the angles at nitrogen  $359.9^\circ$ ) and approximate  $C_{3h}$  symmetry.

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