Kristallstrukturen von $Me_2Si[N(SiMe_3)_2]_2$ und $[Me_2Si(NPh)(NHPh)Li\cdot OEt_2]_2$

Crystal Structures of $Me_2Si[N(SiMe_3)_2]_2$ and $[Me_2Si(NPh)(NHPh)Li\cdot OEt_2]_2$

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Silylamine, Lithium Amide, Crystal Structure

The crystal structures of the title compounds are reported. $Me_2Si[N(SiMe_3)_2]_2$: Space group Pbcn, Z = 4, lattice dimensions at 213 K: a = 1487.8(1), b = 1299.4(1), c = 1259.7(1) pm. The compound forms monomeric molecules with crystallographic C_2 symmetry and Si-N bond lengths of 177.9(3), 171.6(3) and 175,2(3) pm. $[Me_2Si(NPh)(NHPh)Li\cdot OEt_2]_2$: Space group $P2_1/n$, Z = 2, lattice dimensions at 190 K: a = 1082.7(3), b = 1038.8(2), c = 1641.3(4) pm, β = 91.350(3)°. The compound forms centrosymmetric dimeric molecules in which the lithium atoms are members of a Li_2N_2 ring with Li-N bond lengths of 206.6(2) and 213.5(2) pm. The hydrogen atom at the nitrogen atom of the $HNPh^-$ group is not involved in hydrogen bridging bonds.

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