Synthese der Amide M[N(SiMe*t*Bu$_2$)(Si*t*Bu$_3$)] (M = Li, Na) durch N$_2$-Eliminierung aus den Triazeniden M[*t*Bu$_3$SiNNNSiMe*t*Bu$_2$] (M = Li, Na)

Synthesis of the Amides M[N(SiMe*t*Bu$_2$)(Si*t*Bu$_3$)] (M = Li, Na) by N$_2$-Elimination Reaction of the Triazenides M[*t*Bu$_3$SiNNNSiMe*t*Bu$_2$] (M = Li, Na)

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The thermolabile triazenides M[*t*Bu$_3$SiNNNSiMe*t*Bu$_2$] (M = Li, Na) are accessible from the reaction of *t*Bu$_2$MeSiN$_3$ with the silanides MSi*t*Bu$_3$ (M = Li, Na) at −78 °C in THF. At r. t. N$_2$ elimination from the triazenides M[*t*Bu$_3$SiNNNSiMe*t*Bu$_2$] (M = Li, Na) takes place with the formation of M[N(SiMe*t*Bu$_2$)(Si*t*Bu$_3$)] (M = Li, Na). X-Ray quality crystals of Li(THF)[N(SiMe*t*Bu$_2$)(Si*t*Bu$_3$)] (orthorhombic, *Pna*2$_1$) are obtained from a benzene solution at ambient temperature. In contrast to the structures of the unsolvated silanides MSi*t*Bu$_3$ (M = Li, Na), the THF adduct Li(THF)$_3$Si*t*Bu$_3$ is monomeric in the solid state (orthorhombic, *Pna*2$_1$).

Key words: Triazene, Nitrogen, Silanide, Silyl Amine, X-Ray Structure Analysis