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STEPWISE SYNTHESIS OF MONO-NH-SIF-FUNCTIONAL CYCLODISILAZANES

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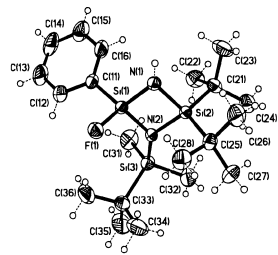
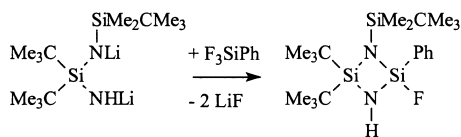
STEPWISE SYNTHESIS OF MONO-NH-SiF-FUNCTIONAL CYCLODISILAZANES

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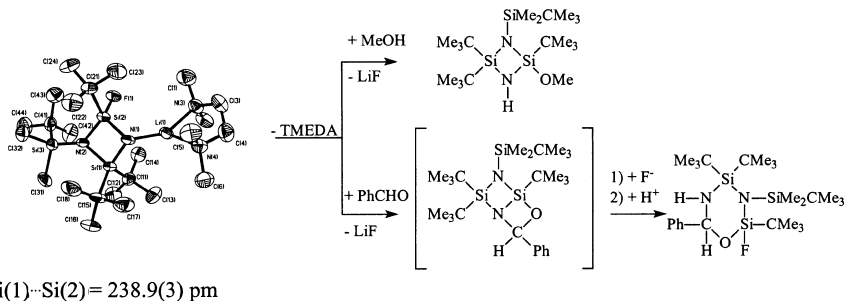
In the reaction of dilithiated 1-amino-1.3-disilazanes with trifluoro-silanes the first mono-NH-SiF-functional cyclodisilazanes and their lithium salts with very short transannular Si...Si-distances are obtained, e.g.:



Si(1)···Si(2) = 247.62(10) pm

The lithium derivatives react with H-acidic compounds like alcohols as amides and with unsaturated compounds like aldehydes as silaimines. If treated with PhCHO a bicyclus is formed as intermediate product, which reacts thermally with LiF:

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REFERENCE

- [1] C. Reiche and U. Klingebiel, *Z. Naturforsch.* (2003).