

Synthese und Kristallstruktur von $[\text{H}_2\text{NMe}_2]^+[(\text{Me}_2\text{NH})_2\text{TiCl}_4]^-$

Synthesis and Crystal Structure of $[\text{H}_2\text{NMe}_2]^+[(\text{Me}_2\text{NH})_2\text{TiCl}_4]^-$

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Z. Naturforsch. **53 b**, 239–241 (1998); eingegangen am 20. November 1997

N-Silyl Amides, Crystal Structure, Titanium

The title compound has been synthesized as a green solid by the reaction of $\text{MeCl}_2\text{SiNHSiMe}_3$ and $\text{Ti}(\text{NMe}_2)_4$ in CH_2Cl_2 . The crystal structure was determined by single crystal X-ray methods at room temperature ($C2/c$, $a = 1825,7(4)$, $b = 909,9(2)$, $c = 1116,1(2)$ pm, $\beta = 125,09(3)^\circ$, $Z = 4$, $R1 = 0,047$, $wR2 = 0,147$) to be an ionic salt $[\text{H}_2\text{NMe}_2]^+[(\text{Me}_2\text{NH})_2\text{TiCl}_4]^-$. The central titanium(III) atom of the anion is bound to four Cl atoms and weakly coordinated by two Me_2NH ligands.

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