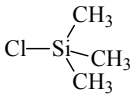
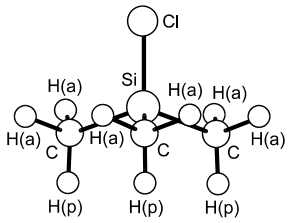
447 **C_3H_9ClSi** **Chlorotrimethylsilane** **G_{162}**
MW



r_0	Å	θ_0	deg
Si–Cl	2.06728(28)	C–Si–Cl	107.618(12)
Si–C	1.86060(12)	Si–C–H(p) [a])	110.17 [b])
C–H(p) [a])	1.099 [b])	Si–C–H(a) [c])	110.91 [b])
C–H(a) [c])	1.097 [b])		

r_s	Å	θ_s	deg
Si–Cl	2.0670(36)	C–Si–Cl	107.45(13)
Si–C	1.8598(19)		



The internal-rotation potential barrier V_3 was determined to be 577 cm^{-1}.

[a]) The C–H bond, which is almost parallel to the symmetry axis.
[b]) Assumed.
[c]) The C–H bond, which forms an angle with the symmetry axis.

Merke, I., Stahl, W., Kassi, S., Petitprez, D.,Wlodarczak, G.: J. Mol. Spectrosc. **216** (2002) 437.

Replaces II/25C (**3**, 1390), MW