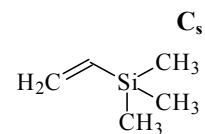


677 **C₅H₁₂Si**
ED, *ab initio*
calculations

Ethenyltrimethylsilane
Trimethyl(vinyl)silane



r_g	\AA^a	θ_α	deg ^{a)}
Si–C(m)	1.877(3) ^{b)}	Si–C(v)=C	124.6(18)
Si–C(v)	1.867(3) ^{b)}	C(m)–Si–C(v)	112.6(8)
C–H	1.076(8)	Si–C(m)–H	114.2(14)
C(v)=C	1.359(10)	Si–C(v)–H	118 ^{c)}
		C(v)=C–H	122 ^{c)}

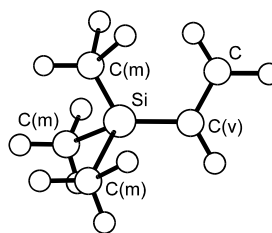
The molecule exists as a *syn* conformer (one Si–C(m) bond is eclipsed with respect to the C=C bond). Staggered conformation with respect to the Si–C(v) bond was assumed for the methyl groups.

The nozzle was at 298 K.

^{a)} Unidentified, possibly twice the estimated standard errors, including a systematic error.

^{b)} Difference between the Si–C(m) and Si–C(v) bond lengths was assumed at the value from HF/6-31G* calculations.

^{c)} Assumed at the value from HF/6-31G* calculations.



Page, E.M., Rice, D.A., Walsh, R., Hagen, K.: J. Mol. Struct. **403** (1997) 199.