

1855
ED

C₄H₁₂O₃Si

Methyltrimethoxysilane

C₃ assumed
H₃C–Si(OCH₃)₃

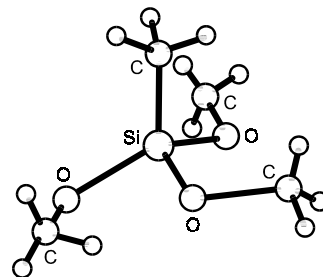
r_a	Å ^{a)}	θ_a	deg ^{a)}
C–H	1.093(5)	C–Si–O	109.6(5)
Si–C	1.842(13)	Si–O–C	123.6(5)
Si–O	1.632(4)	Si–C–H	109.5 ^{b)}
O–C	1.425(4)	O–C–H	110.3 ^{b)}
		τ ^{c)}	100...155

There is probably a large-amplitude motion around the Si–O bonds. Methyl groups are all in staggered conformation. The nozzle temperature was 40 °C.

^{a)} Estimated total errors.

^{b)} Assumed.

^{c)} Torsional angle around C–Si–O–C; $\tau = 0^\circ$ for the *anti* position.



Gergö, E., Hargittai, I., Schultz, G.: J. Organomet. Chem. **112** (1976) 29.