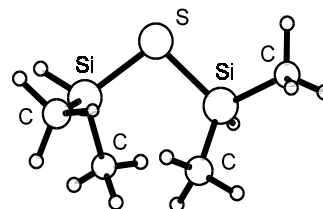


**1871**      **C<sub>4</sub>H<sub>14</sub>SSi<sub>2</sub>**  
ED, MM2 calculations

**Bis(dimethylsilyl) sulfide**

**C<sub>1</sub>**  
(H<sub>3</sub>C)<sub>2</sub>SiH–S–SiH(CH<sub>3</sub>)<sub>2</sub>

$r_a$	Å <sup>a)</sup>	$\theta_a$	deg <sup>a)</sup>
Si–S	2.146(1)	S–Si–C	109.1(11)
Si–C	1.865(1)	C–Si–C	106.6(16)
Si–H	1.546(18)	Si–C–H	112.0(5)
C–H	1.131(3)	S–Si–H	110.0 <sup>b)</sup>
		Si–S–Si	100.8(20)
		H–C–Si–S <sup>c)</sup>	26.6(23)
		$\tau_1$ <sup>d)</sup>	148(2)
		$\tau_2$ <sup>d)</sup>	–87(4)



Molecular mechanics (MM2) calculations indicated that there was considerable deviation from C<sub>s</sub> symmetry in the SSiHC<sub>2</sub> groups, and that the two groups were significantly different from one another. Local C<sub>3v</sub> symmetry for the SiCH<sub>3</sub> fragments was assumed. The nozzle temperature was 295 K.

<sup>a)</sup> Estimated standard errors including a systematic error.

<sup>b)</sup> Assumed. Mean value for the non-equivalent parameters.

<sup>c)</sup> From *syn* position.

<sup>d)</sup> Twist angles of SiH(CH<sub>3</sub>)<sub>2</sub> groups, H–Si–S–Si;  $\tau = 0^\circ$  when H–Si bond is eclipsed with respect to the further S–Si bond.

Anderson, D.G., Campbell, V.A., Forsyth, G.A., Rankin, D.W.H.: J. Chem. Soc., Dalton Trans. (1990) 2125.