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ED

C₄H₈S₂

1,1-Bis(methylthio)ethylene

C₁ (*syn-gauche*)
H₂C=C(S-CH₃)₂

r_a	Å ^{a)}	θ_a	deg ^{a)}
C(1)=C(2)	1.348(5)	C(1)=C(2)-S ^{b)}	122.4(10)
C(2)-S(5) ^{b)}	1.762(5)	C-S-C	102.1(25)
C(3)-S(5) ^{b)}	1.817(5)	H-C(1)-H	115.0 ^{c)}
C(1)-H	1.078 ^{c)}	S-C-H ^{b)}	109.8(15)
C(3)-H	1.112 ^{c)}	C(1)=C(2)-S(5)-C(3)	122(3)

Conformer *syn-gauche* is predominant, but mixtures of *syn-syn*, *syn-gauche*, and *gauche-gauche* were found to give fairly good agreement between experimental and theoretical curves.

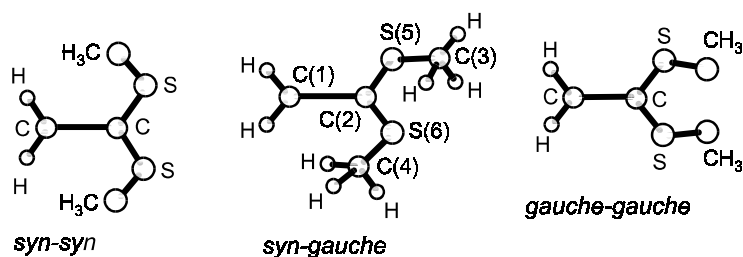
The nozzle temperatures were 60 and 200 °C.

The results obtained from the data at 60 °C are listed and represent average values since only one conformer *syn-gauche* was included in the analysis.

^{a)} Estimated standard errors.

^{b)} Values for the C(2)-S(5)-C(3) and C(2)-S(6)-C(4) moieties were assumed equal.

^{c)} Assumed.



Jandal, P., Seip, H.M., Torgrimsen, T.: J. Mol. Struct. **32** (1976) 369.