

1761 $\text{C}_4\text{H}_8\text{S}$
MW

Ethyl vinyl sulfide

C_s (*anti*)
 C_1 (*gauche*)
 $\text{H}_3\text{C}-\text{CH}_2-\text{S}-\text{CH}=\text{CH}_2$

r_0	Å	θ_0	deg
S-C(2)	1.747 ^{a)}	C(1)=C(2)-S	127.5 ^{a)}
S-C(3)	1.807 ^{a)}	H-C(1)=C(2)	121.1 ^{a)}
C(1)=C(2)	1.339 ^{a)}	S-C(3)-H	109.47 ^{a)}
H-C=	1.085 ^{a)}	C(3)-C(4)-H	109.47 ^{a)}
		S-C(3)-C(4)	110.0 (<i>anti</i>) ^{a)}
			114.5 (<i>gauche</i>) ^{a)}
		C(2)-S-C(3)	103.0(10) (<i>anti</i>) ^{b) c)}
		C(2)-S-C(3)-H ^{d)}	60.0 ^{a) c)}
		S-C(3)-C(4)-H(6) ^{d)}	180.0 ^{a) c)}
		S-C(3)-C(4)-H(7,8) ^{d)}	60.0 ^{a) c)}
		C(1)=C(2)-S-C(3) ^{d)}	0.0 (<i>anti</i>) ^{a) c)}
			6.0 (<i>gauche</i>) ^{a) c)}
		C(2)-S-C(3)-C(4) ^{d)}	77(3) (<i>gauche</i>) ^{c) c)}

The *anti* form was found to be more stable by 1.2(5) kJ mol⁻¹. Further conformers are at least 3 kJ mol⁻¹ less stable than *anti*.

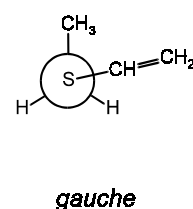
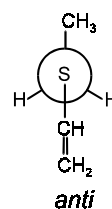
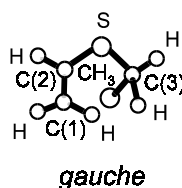
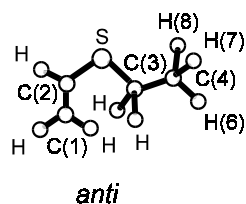
^{a)} Assumed.

^{b)} This value was used for both conformers.

^{c)} Uncertainty was not estimated in the original paper.

^{d)} Dihedral angle.

^{e)} From *syn*.



Marstokk, K.-M., Møllendal, H.: Acta Chem. Scand. **44** (1990) 692.