

1356  
ED

$\text{C}_3\text{H}_8\text{S}_2$

Methyl ethyl disulfide

$\text{C}_1$  (*anti*)  
 $\text{C}_1$  (*gauche*)  
 $\text{H}_3\text{C}-\text{S}-\text{S}-\text{CH}_2-\text{CH}_3$

$r_{\text{g}}$	$\text{\AA}^{\text{a}}$	$\theta_{\alpha}$	$\text{deg}^{\text{a}}$
C-S	1.817(4)	C-C-S	112.4(16)
S-S	2.031(3)	S-S-C	103.2(3)
C-C	1.540(7)	S-C-H	111.5 <sup>b</sup>
C-H	1.111(5)	$\tau_1^{\text{c) d)}$	84.4(69)
		$\tau_2$ ( <i>gauche</i> ) <sup>d) e)</sup>	66.8(76)

It was assumed that the *anti* and *gauche* conformers coexist in the ratio of 25 to 75%.  
The measurements were made at room temperature.

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

<sup>b)</sup> Assumed.

<sup>c)</sup> C-S-S-C torsion angle.

<sup>d)</sup>  $\tau = 0^\circ$  for *syn* position.

<sup>e)</sup> C-C-S-S torsion angle,  $\tau_2 = 180^\circ$  for the *anti* conformer.

Yokozeki, A., Bauer, S.H.: J. Phys. Chem. **80** (1976) 618.