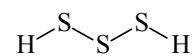


258  
MW

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

 Dihydrogen trisulfide  
Trisulfane

 $\text{C}_s$  (*syn*)  
 $\text{C}_2$  (*anti*)


$r_{\text{le}}$	$\text{\AA}$	
	<i>syn</i>	<i>anti</i>
S–H	1.3435(14)	1.3435 <sup>a)</sup>
S–S	2.0530(1)	2.0539(4)

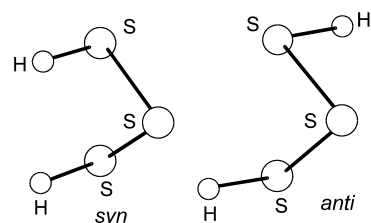
$\theta_{\text{le}}$	deg	
	<i>syn</i>	<i>anti</i>
S–S–H	97.37(15)	97.2(7)
S–S–S	106.919(3)	107.02(2)
$\varphi^{\text{b)}}$	90.82(16)	87.7(4)

$r_{\text{s}}$	$\text{\AA}^{\text{c)}}$
	<i>syn</i>
S–H	1.3290(14)
S–S	2.0504(1)

$\theta_{\text{s}}$	deg <sup>c)</sup>
	<i>syn</i>
S–S–H	99.14(15)
S–S–S	106.857(3)
$\varphi^{\text{b)}}$	88.56(16)

<sup>a)</sup> Assumed.

<sup>b)</sup> Dihedral angle between the SSS and SSH planes.

<sup>c)</sup> Uncertainties were not estimated in the original paper.

 Liedtke, M., Yamada, K.M.T., Winnewisser, G., Hahn, J.:  
J. Mol. Struct. **413-414** (1997) 265.