

1746
MW

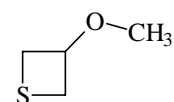
C₄H₈OS

3-Methoxythietane

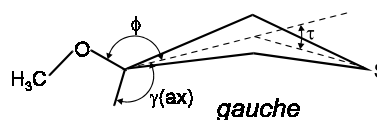
C₁

r_0	Å ^{a)}
C–S	1.847 ^{b)}
C–C	1.549 ^{b)}
O–C	1.420(20)
H–C(ring)	1.0922 ^{b)}
H–C(CH ₃)	1.095 ^{b)}

θ_0	deg ^{a)}
C–C–C	95.2(20)
C–S–C	76.5(20)
C–O–C	110.0(20)
H(CH ₃)–C–O	109.5(50) ^{c)}
τ	26.0 ^{b)}
$\chi(\text{ax})$	119.9 ^{b)}
ϕ	125.3(30)
C(CH ₃)–O–C–H(ring) ^{d)}	50.0(50)



Atom	$ a_s $ [Å]	$ b_s $ [Å]	$ c_s $ [Å]
S	1.903	0.148	0.115



The oxygen atom is in the equatorial position and the methyl group is *gauche* with respect to the ring hydrogen in position 3.

^{a)} Uncertainties were not estimated in the original paper.

^{b)} Assumed.

^{c)} C_{3v} symmetry is assumed for the methyl group.

^{d)} Dihedral angle.

Caminati, W., Damiani, D., Dore, L.: J. Mol. Spectrosc. **145** (1991) 236.