

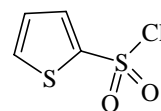
1518
ED

C₄H₃ClO₂S₂

2-Thiophenesulfonyl chloride

C₁

r_g	Å ^{a)}	θ_α	deg ^{a)}
S(1)–C	1.716(4)	C–C–C	112.9(1)
C–C (average)	1.392(3)	S–C–H	124.6 ^{b)}
C–H	1.069(12)	C–C–H	123.4 ^{b)}
S(2)–C	1.730(8)	S–C–S	121.5(3)
S(2)–Cl	2.041(1)	C–S–Cl	100.6(4)
S=O	1.420(1)	C–S=O	109.0(4)
		τ^c	88.9(19)



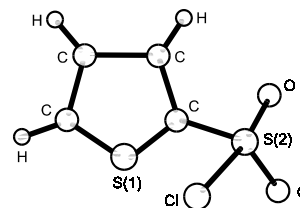
The molecular conformation is characterized by the perpendicular arrangement of the plane of the five-membered ring and the CSCI plane.

The nozzle temperature was 75 °C.

^{a)} Estimated standard errors including a systematic error.

^{b)} Assumed.

^{c)} Dihedral angle S–C–S–Cl from *anti* position.



Brunvoll, J., Hargittai, I., Székely, T., Pappalardo, G.C.: J. Mol. Struct. **66** (1980) 173.