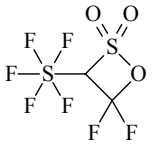
190 **$C_2HF_7O_3S_2$** **(4,4-Difluoro-2,2-dioxo-1,2λ^6-oxathiethan-3-yl)-pentafluorosulfur(VI)** **C_1**
ED
4,4-Difluoro-3-(pentafluorothio)-1,2-oxathietane 2,2-dioxide

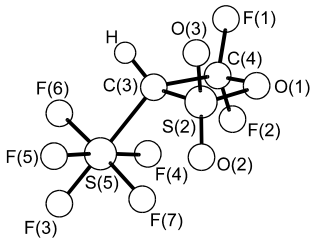
r_a	Å [a])
C–F	1.327(6)
S(2)=O(2,3)	1.406(3)
C–O	1.41[2] [b])
C–C	1.52[2] [b])
S–F (mean)	1.571(3)
S(2)–O(1)	1.647(12)
S(2)–C(3)	1.792(15)
S(5)–C(3)	1.841(14)
C(3)…O(1)	2.232(21)
C–H	1.10 [c])

θ_a	deg [a])
S(2)–C(3)–C(4)	85.6(14)
C(3)–C(4)–O(1)	98.2(26)
C(4)–O(1)–S(2)	95.5(19)
O(1)–S(2)–C(3)	80.7(12)
F–C(4)–F	107.7(28)
O(2)=S(2)=O(3)	117.0(41)
S(5)–C(3)–H	112.0 [c])
F(3)–S(5)–F(4)	89.3(3)
S(2)–C(3)–S(5)	118.3(9)
C(4)–C(3)–S(5)	117.8(18)
τ [d])	23.4(19)
wag(CF_2) [e])	4.0[20] [b])
wag(SO_2) [e])	4.0[20] [b])
φ [f])	1.2(42)



Local C_{4v} symmetry was assumed for the SF_5 group.
The nozzle was at room temperature.

[a]) Three times the estimated standard errors including a systematic error.
[b]) Set to value for similar molecules, varied within the given range.
[c]) Assumed.
[d]) H–C–S–F(6) torsional angle from the *syn* position.
[e]) Wagging angle towards O(1).
[f]) Puckering angle between the CSO and CCO planes.



Gard, G.L., Terjeson, R.J., Oberhammer, H.: J. Mol. Struct. **443** (1998) 205.