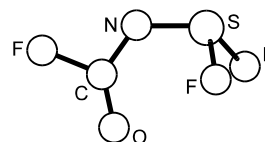
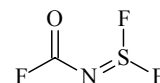


38 **CF₃NOS**
ED, MW

***cis*-Fluoroformyliminosulfur difluoride**
cis-(Fluorocarbonyl)imidosulfurous difluoride
cis-*S,S*-Difluoro-*N*-(fluorocarbonyl)sulfilimine

C_s assumed

r_z	Å ^{a)}	θ_z	deg ^{a)}
C=O	1.181(4)	C–N=S	126.7(11)
C–F	1.322(6)	N–C=O	129.3(8)
N–C	1.395(6)	N–C–F	106.6(6)
S=N	1.479(4)	F–C=O	124.1(10)
S–F	1.586(2)	N=S–F	110.4(8)
		F–S–F	93.4(3)



Only one *cis-syn* conformer (N–C being *cis* to the F–S–F bisector and C=O *syn* to N=S) was observed. The contribution of any other conformer was estimated to be less than 3%. The experimental values were well reproduced by HF/6-31G* calculations. The nozzle was at room temperature.

^{a)} Twice the estimated standard errors.

Leibold, C., Cutin, E., Della Védova, C.O., Mack, H.-G., Mews, R., Oberhammer, H.:
J. Mol. Struct. **375** (1996) 207.

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