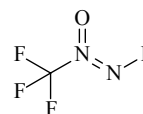
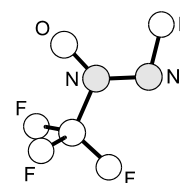


48 **CF₄N₂O**ED, *ab initio* and DFT
calculations**(Z)-1-Fluoro-2-(trifluoromethyl)diazene 2-oxide****C_s**

r_a	Å ^{a)}	θ_a	deg ^{a)}
N=N	1.287(15)	N=N=O	131.2(13)
N=O	1.231(6)	N=N-F	103.5(13)
N-F	1.380(6)	N=N-C	114.0(12)
N-C	1.498(6)	F-C-F	110.4(6)
C-F	1.312(3)	tilt(CF ₃) ^{b)}	2.8 ^{c)}



Local C_{3v} symmetry was assumed for the CF₃ group.
One C-F bond is eclipsed with respect to the N=N bond.
The nozzle was at room temperature.



^{a)} Three times the estimated standard errors.

^{b)} Angle between the C₃ axis of the CF₃ group and the N-C bond direction, away from the N=N bond.

^{c)} Assumed at the value from B3LYP/6-31G* calculations.

Leibold, C., Foropoulos, J., Marsden, H.M., Shreeve, J.M., Oberhammer, H.: Inorg. Chem. **41** (2002) 6125.