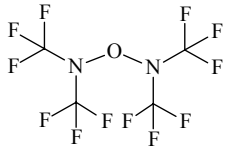
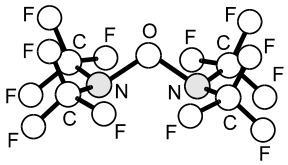
480 **$C_4F_{12}N_2O$** ***N,N'*-Oxybis[1,1,1-trifluoro-*N*-(trifluoromethyl)methanamine]** essentially **C_{2v}**
ED
Perfluoro(2,4-dimethyl-3-oxa-2,4-diazapentane)



r [a])	Å [b])	θ [a])	deg [b])
N–O	1.462(8)	N–O–N	105.2(26)
N–C	1.435(4)	C–N–C	117.9(12)
C–F	1.323(2)	O–N–C	109.3(8)
		F–C–F	109.3(2)
		tilt(CF_3) [c])	2.7(11)
		τ(CF_3) [d])	1.8(23)



Local C_{3v} symmetry was assumed for the CF_3 groups.
The nozzle temperature was 15 °C.

[a]) Unidentified, possibly r_a and θ_a.
[b]) Three times the estimated standard errors.
[c]) Tilt angle in the CNC plane between the C_3 axis and the vector along N–C, defined positive when the groups are bent away from each other.
[d]) Torsional angle of the CF_3 group about the N–C bond; $\tau = 0°$ when the CF_3 group is exactly staggered with respect to the opposite N–C bond. The mutual direction (C_2 or C_{2v} overall symmetry) could not be determined, but this angle was essentially 0°.

Reinemann, S., Minkwitz, R., Oberhammer, H.: Angew. Chem. **109** (1997) 1579; Angew. Chem., Int. Ed. Engl. **36** (1997) 1518.