

1025
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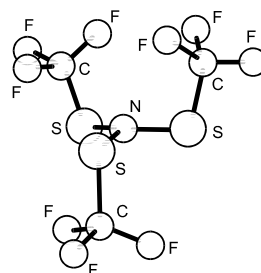
Tris(trifluoromethylthio)amine

essentially C_s
N(SCF₃)₃

r_g	Å ^{a)}	θ^b	deg ^{a)}
C–F	1.336(2)	S–N–S	118.8(6)
C–S	1.825(6)	N–S–C	100.1(10)
S–N	1.705(5)	F–C–F	108.3(3)
		tilt (CF ₃) ^{c)}	4.8(6)

The NSC planes are perpendicular (within experimental uncertainties) to the S₃ plane. Two CF₃ groups lie above this plane, one below it.

The nozzle temperature was 24 °C.



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

^{b)} Unidentified, possibly θ_a .

^{c)} Tilt angle of the CF₃ group in the NSC plane away from the N atom.

Marsden, C.J., Bartell, L.S.: J. Chem. Soc., Dalton Trans. (1977) 1582.