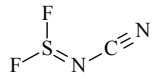
35 **CF_2N_2S** **Sulfur cyanamide difluoride** **C_s**

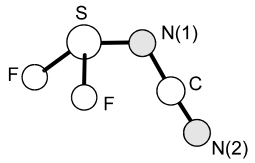
ED, *ab initio* and DFT calculations

(Cyanoimido)difluorosulfur



r_a	Å [a])	θ_a	deg [a])
C≡N(2)	1.167(3)	S=N–C	126.2(15)
N(1)–C	1.368(4)	N=S–F	108.8(8)
S=N	1.484(3)	F–S–F	90.5(3)
S–F	1.593(2)	N–C≡N	179.0(28)

The molecule was found to exist as a *syn* conformer with the C≡N bond in the *syn* position with respect to the bisector of the F–S–F angle. According to the results of HF, MP2 and B3LYP calculations, the energy difference between the *anti* and *syn* conformers is more than 5 kcal mol^{-1}.
The nozzle was at room temperature.



[a]) Three times the estimated standard errors.

Alvaréz, R.S.M., Cutin, E.H., Della Vedova, C.O., Mews, R., Haist, R., Oberhammer, H.: Inorg. Chem. **40** (2001) 5188.