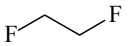
266 **$C_2H_4F_2$** **1,2-Difluoroethane** **C_{2h}** (*anti*)

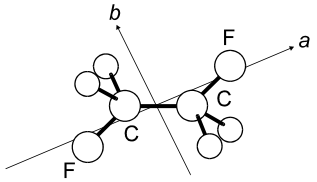
IR



r_0	Å [a])	θ_0	deg [a])
C–H	1.092(1)	C–C–H	111.6(3)
C–C	1.506(5)	H–C–H	110.7(1)
C–F	1.400(4)	C–C–F	107.3(2)
		F–C–H	107.8(3)

r_s	Å [b])	θ_s	deg [b])
C–H	1.095(2)	C–C–H	111.5(2)
C–C	1.499(4)	H–C–H	110.0(3)
C–F [c])	1.403(6)	C–C–F [c])	107.4(5)
		F–C–H [c])	108.1(3)

Atom	a_s [Å]	b_s [Å]	c_s [Å]
C	±0.5339	∓0.5263	0.0
H	±0.4808	∓1.1516	±0.8968
F [c])	±1.7718	±0.1333	0.0



[a]) Estimated uncertainties.
[b]) Costain uncertainties.
[c]) The F coordinates were fitted, when the C and H atoms were constrained to substitution coordinates.

Craig, N.C., Chen, A., Suh, K.H., Klee, S., Mellau, G.C., Winnewisser, B.P., Winnewisser, M.: J. Phys. Chem. A **101** (1997) 9302.
See also: Craig, N.C., Chen, A., Suh, K.H., Klee, S., Mellau, G.C., Winnewisser, B.P., Winnewisser, M.: J. Am. Chem. Soc. **119** (1997) 4789.

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