

1311
MW

C₃H₇FO

Fluoromethyl ethyl ether

C₁
H₃C–CH₂–O–CH₂F

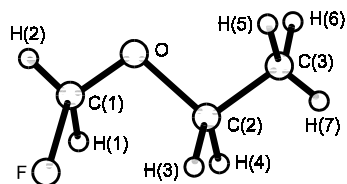
r_s	Å	θ_s	deg
C–F	1.395(15)	F–C–O	111.3(15)
C–C	1.515(8)	C–O–C	113.6 ^{a)}
O–C(1)	1.374(15)	O–C–C	107.6(15)
O–C(2)	1.421(15)	F–C(1)–H(1)	105.8(15)
C(1)–H(1)	1.100(15)	F–C(1)–H(2)	107.1(15)
C(1)–H(2)	1.093(10)	O–C(1)–H(1)	112.1(15)
C(2)–H(3)	1.153(9)	O–C(1)–H(2)	108.3(15)
C(2)–H(4)	1.102(9)	H(1)–C(1)–H(2)	112.1(18)
C(3)–H(5)	1.086(23)	O–C(2)–H(3)	106.1(15)
C(3)–H(6)	1.093(18)	O–C(2)–H(4)	107.9(15)
C(3)–H(7)	1.089(17)	C(3)–C(2)–H(3)	119.4(14)
		C(3)–C(2)–H(4)	109.0(13)
		H(3)–C(2)–H(4)	106.3(15)
		C(2)–C(3)–H(5)	110.1(13)
		C(2)–C(3)–H(6)	110.1(11)
		C(2)–C(3)–H(7)	110.2(10)
		H(5)–C(3)–H(6)	109.1(30)
		H(5)–C(3)–H(7)	108.4(18)
		H(6)–C(3)–H(7)	108.8(18)
		τ^b	70.1(15)

Atom	a_s [Å]	b_s [Å]	c_s [Å]
F	–1.8311	0.5804	–0.1778
C(1)	–1.1684	–0.5774	0.2312
O	0.1216	–0.6061	–0.2408
C(2)	0.9736	0.3494	0.3763
C(3)	2.3711	0.1355	–0.1671
H(1)	–1.2076	–0.5714	1.3308
H(2)	–1.7098	–1.4257	–0.1960
H(3)	0.4618	1.3726	0.2364
H(4)	0.9765	0.1515	1.4609
H(5)	2.7135	–0.8686	0.0664
H(6)	2.3785	0.2734	–1.2509
H(7)	3.0622	0.8474	0.2824

Only the GT form was detected.

^{a)} Assumed.

^{b)} Dihedral angle F–C–O–C.



Hayashi, M., Kato, H.; Oyamada, M.: J. Mol. Spectrosc. **83** (1980) 408.
See also: Hayashi, M., Kato, H.: Bull. Chem. Soc. Jpn. **53** (1980) 2701.