

1308
MW

C₃H₇FO

1-Fluoro-2-propanol

C₁
H₃C–CHOH–CFH₂

r_0	Å ^{a)}	θ_0	deg ^{a)}
C–F	1.379 ^{b)}	F–C–C	109.50 ^{b)}
C–O	1.427 ^{b)}	C–O–H	105.00 ^{b)}
C(1)–C(2)	1.533 ^{b)}	C–C–C	112.00 ^{b)}
C(2)–C(3)	1.520 ^{b)}	C–C–H	109.48 ^{b)}
O–H	0.990 ^{b)}	H–C–H	109.48 ^{b)}
C–H	1.093 ^{b)}	H–C–O	109.48 ^{b)}
H(1)...F	2.351(10)	O–H...F	105.43(200)
O...F	2.783(10)	φ ^{c)}	5.72(200)
		τ_1 ^{d)}	180.00 ^{b)}
		τ_2 ^{e)}	59(2)
		τ_3 ^{f)}	58(3)

Atom	$ a_s $ [Å]	$ b_s $ [Å]	$ c_s $ [Å]
H(1)	0.1464	1.7338	imaginary

^{a)} Uncertainties were not estimated in the original paper.

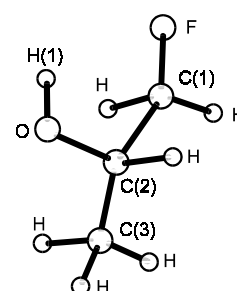
^{b)} Assumed.

^{c)} Angle between C–F and O–H bond.

^{d)} Dihedral angle F–C–C–C.

^{e)} Dihedral angle F–C–C–O from *syn*.

^{f)} Dihedral angle H–O–C–C(1) from *syn*.



Marstokk, K.-M., Møllendal, H.: J. Mol. Struct. **40** (1977) 1.