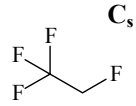
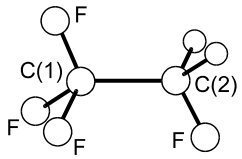
217 **$C_2H_2F_4$** **1,1,1,2-Tetrafluoroethane** **C_s**

MW, IR



r_0	Å		θ_0	deg	
	fit 1	fit 2		fit 1	fit 2
C–C	1.514(6)	1.505(4)	C(2)–C(1)–F(*anti*)	109.8(2)	111.21(1)
C(1)–F	1.338 [a])	1.338 [a])	C(2)–C(1)–F(*gauche*)	111.21(2)	111.21(1)
C(2)–F	1.392 [a])	1.392 [a])	C(1)–C(2)–F	108.4(6)	108.5(3)
C–H	1.095 [a])	1.095 [a])	tilt(CF_3) [b])	0 [a])	1.9(1) [c])
			C–C–H	112.8 [a])	112.8 [a])

[a]) Assumed.
[b]) Tilt angle between the C_3 axis of the CF_3 group and the C–C bond direction.
[c]) Away from C(2)–F bond.



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Replaces II/25B(**3**, 604), MW