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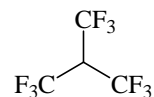
C₄HF₉

1,1,1,3,3,3-Hexafluoro-2-(trifluoromethyl)propane

Tris(trifluoromethyl)methane

essentially C_{3v}

r_a	Å ^{a)}	θ_a	deg ^{a)}
C–H	1.110(10)	C–C–C	112.9(2)
C–C	1.537(3)	C–C–F	110.9(2)
C–F	1.334(2)	F–C–F	108.0(2)
		H–C–C	105.8(3)



The CF₃ groups seem to be involved in a large vibrational motion (with a root-mean-square angle of about 17°) around the C–C bonds.

The nozzle temperature was ≈ 15 °C.

^{a)} Estimated standard errors.

Stølevik, R., Thom, E.: Acta Chem. Scand. **25** (1971) 3205.