

1726
ED

C₄H₈F₂Si

1,1-Difluorosilacyclopentane

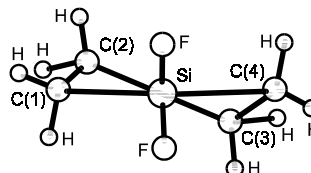
C₂ (twist form)

r_g	Å ^{a)}	θ ^{b)}	deg ^{a)}
C–H	1.128(7)	C–Si–C	98.5(20)
C–C (average)	1.553(15)	Si–C–C	101.3(13)
Si–F	1.582(6)	C–Si–F	113.4(3)
Si–C	1.853(3)	C–C–C	106(1)
		C(1)–C(2)–C(3)–C(4)	56.0(32)



The molecule is found to have a barrier to pseudorotation of 2.25(90) kcal mol^{−1}.
The potential function has a minimum at the twist form (C₂ symmetry) and maxima at the envelope forms.
The nozzle temperature was 20 °C.

- ^{a)} Unidentified, possibly three times the estimated standard errors.
^{b)} Unidentified, possibly θ_α .



Shen, Q., Dakkouri, M.: J. Mol. Struct. **130** (1985) 283.