

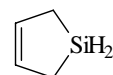
1772
ED

C₄H₈Si

Silacyclopent-3-ene

C_{2v} (large-amplitude
puckering vibration)

r_a	\AA^a	θ_a	deg ^{a)}
C=C	1.359(5)	C-C=C	118.4(2)
C-C	1.533(4)	H-Si-H	109.0 ^{b)}
C-H	1.134(10)	φ ^{c)}	8.9(6)
Si-H	1.490 ^{b)}		
Si-C	1.899(3)		

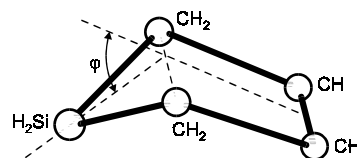


The apparent non-zero value of φ is due to a shrinkage effect.
The nozzle temperature was 55 °C.

^{a)} Estimated standard errors including a systematic error.

^{b)} Assumed.

^{c)} For definition, see figure.



Craddock, S., Ebsworth, E.A.V., Hamill, B.M., Rankin, D.W.H., Wilson, J.M., Whiteford, R.A.:
J. Mol. Struct. **57** (1979) 123.

See also: Veniaminov, N.N., Alekseev, N.V., Bashkirova, S.A., Komalenkova, N.G.,
Chernyshev, E.A.: Zh. Strukt. Khim. **16** (1975) 290; Russ. J. Struct. Chem. (Engl. Transl.)
16 (1975) 267.