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C₃H₃F₅Si

1,1-Difluoro-2-(trifluorosilyl)cyclopropane
(2,2-Difluorocyclopropyl)trifluorosilane

C₁

$r^a)$	$\text{\AA}^b)$	$\theta^a)$	$\text{deg}^b)$
Si-F	1.600(3)	F-C-F	114.5(20)
Si-C	1.819(15)	F-Si-F	107.0(7)
C-F ^{c)}	1.333(9)	$\alpha^d)$	56.5(11)
C-C ^{c)}	1.519(10)	$\beta^e)$	19.3(21)

The temperature of the measurement was not stated, probably room temperature.

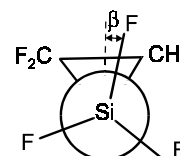
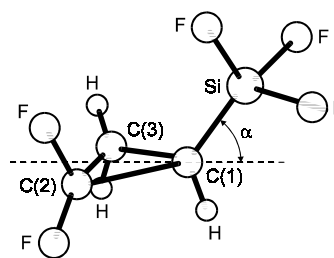
^{a)} Unidentified, possibly r_a and θ_a .

^{b)} Uncertainties are unidentified, possibly estimated standard errors.

^{c)} Assumed to be equidistant.

^{d)} Inclination of the Si-C bond to the plane passing through the C atoms of the three-membered ring.

^{e)} Angle of rotation of the SiF₃ group about the Si-C bond; $\beta = 0^\circ$ corresponds to the staggered conformation relative to the Si-C bond, but no explicit definition of the sign of β was given in the original paper. The structure realized is reported to be that in which the corresponding F...F distances have their maximum values (probably that shown in the figure).



Kuznetsova, T.M., Alekseev, N.V., Shcherbinin, V.V., Veniaminov, N.N., Ronova, I.A.: Zh. Strukt. Khim. **17** (1976) 922; Russ. J. Struct. Chem. (Engl. Transl.) **17** (1976) 789.