

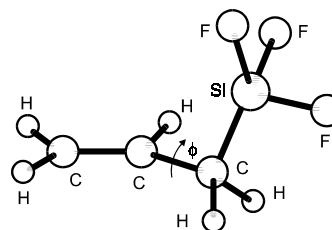
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C₃H₅F₃Si

Trifluoro-2-propenylsilane
Allyltrifluorosilane

C₁
H₂C=CH-CH₂-SiF₃

$r^a)$	$\text{\AA}^b)$	$\theta^a)$	$\text{deg}^b)$
C=C	1.333(18)	C=C-C	119.0(42)
C-C	1.478(25)	C-C-Si	109.1(57)
Si-C	1.837(10)	F-Si-F	105.9(7)
Si-F	1.582(2)	$\tau^c)$	107.4(45)
C-H	1.110(27)		



It was assumed that there was only one conformer with respect to the torsion around the C-C bond (see figure). The conformation about the Si-C bond is essentially staggered. The temperature of the measurement was not stated, probably room temperature.

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

^{b)} Unidentified, possibly estimated standard errors.

^{c)} Torsional angle C=C-C-Si, $\tau = 0^\circ$ when C-Si bond is eclipsed with respect to the C=C bond.

Kuznetsova, T.M., Alekseev, N.V., Veniaminov, N.N.: Zh. Strukt. Khim. **20** (1979) 336;
Russ. J. Struct. Chem. (Engl. Transl.) **20** (1979) 281.