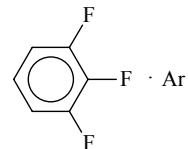


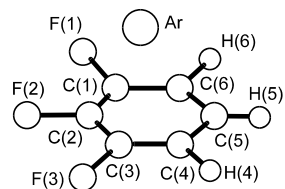
696  
MW $\text{C}_6\text{H}_3\text{ArF}_3$ **1,2,3-Trifluorobenzene – argon (1/1)**  
(weakly bound complex) $\text{C}_s$   
(effective symmetry class)  
(large-amplitude motion)

Atom	$a_0$ [Å]		$b_0$ [Å]		$c_0$ [Å]	
	A <sup>a)</sup>	B <sup>a)</sup>	A <sup>a)</sup>	B <sup>a)</sup>	A <sup>a)</sup>	B <sup>a)</sup>
C(1,3)	-0.7910	-0.8356	$\pm 1.1950$	$\pm 1.1950$	0.2114	-0.0859
C(2)	-1.0280	-0.5985	0.0	0.0	-0.4563	-0.7536
C(4,6)	-0.3288	-1.2978	$\pm 1.2160$	$\pm 1.2160$	1.5135	1.2163
C(5)	-0.0980	-1.5286	0.0	0.0	2.1637	1.8664
F(1,3)	-1.0240	-0.6026	$\pm 2.3411$	$\pm 2.3411$	-0.4449	-0.7421
F(2)	-1.4750	-0.1516	0.0	0.0	-1.7154	-2.0127
H(4,6)	-0.1577	-1.4689	$\pm 2.1687$	$\pm 2.1687$	1.9955	1.6982
H(5)	0.2636	-1.8902	0.0	0.0	3.1823	2.8851
Ar	2.6867	2.6867	0.0	0.0	-0.4910	0.4910



The argon atom is located nearly above the center of the benzene ring.

<sup>a)</sup> A and B denote two possible structures.



Onda, M., Bitoh, Y., Walker, A.R.H.: J. Mol. Struct. **410-411** (1997) 51.