

# Molecular Origami of Te(CF3)2F2

given information

ElementNames	[ (Te) (C) (C) (F) (F) ]	
dotted	F	
distance	197.250	Te <sup>1</sup> -F <sup>5</sup>
distance	197.250	Te <sup>1</sup> -F <sup>1</sup>
distance	218.686	Te <sup>1</sup> -C <sup>2</sup>
distance	218.686	Te <sup>1</sup> -C <sup>1</sup>
angle	80.615	F <sup>1</sup> -Te <sup>1</sup> -C <sup>2</sup>
	269.6	F <sup>1</sup> -C <sup>2</sup>
angle	80.615	F <sup>5</sup> -Te <sup>1</sup> -C <sup>1</sup>
	269.6	F <sup>5</sup> -C <sup>1</sup>
angle	84.496	F <sup>5</sup> -Te <sup>1</sup> -C <sup>2</sup>
	280.1	F <sup>5</sup> -C <sup>2</sup>
angle	84.496	F <sup>1</sup> -Te <sup>1</sup> -C <sup>1</sup>
	280.1	F <sup>1</sup> -C <sup>1</sup>
angle	96.527	C <sup>2</sup> -Te <sup>1</sup> -C <sup>1</sup>
	326.4	C <sup>2</sup> -C <sup>1</sup>
angle	157.566	F <sup>5</sup> -Te <sup>1</sup> -F <sup>1</sup>
	387.	F <sup>5</sup> -F <sup>1</sup>
dopage	T	
AutoAlign	F	
showboth	F	

structure type: XABCD

!Te1  
C1  
C2  
F1  
F5  
Te(CF3)2F2

```
scale 250,000,000 : 1
units: pm
offsetx -0.09 offsety 0.91
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ORTEP diagram of  $\text{Te}(\text{CF}_3)_2\text{F}_2$ . The structure shows a central tellurium atom (Te) bonded to two trifluoromethyl groups ( $\text{CF}_3$ ) and two fluorine atoms ( $\text{F}$ ). The bond lengths are:  $\text{Te}-\text{C} = 2.07(1)$  Å,  $\text{Te}-\text{F} = 2.02(1)$  Å,  $\text{C}-\text{F} = 1.37(1)$  Å, and  $\text{C}-\text{C} = 1.57(1)$  Å. The bond angles are:  $\text{F}-\text{Te}-\text{F} = 108.6^\circ$ ,  $\text{F}-\text{Te}-\text{C} = 108.6^\circ$ ,  $\text{C}-\text{Te}-\text{C} = 108.6^\circ$ ,  $\text{C}-\text{C}-\text{F} = 108.6^\circ$ , and  $\text{F}-\text{C}-\text{F} = 108.6^\circ$ . The displacement ellipsoids are drawn at the 50% probability level. The structure is shown in the  $ab$  plane, with the  $c$  axis perpendicular to the page.

actual size: 713 396

actual size: 499 315