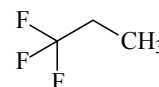


377  
MW $C_3H_5F_3$ 

1,1,1-Trifluoropropane

 $C_s$ 

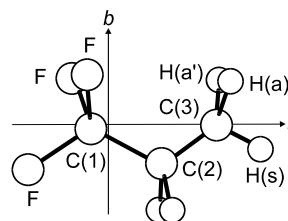
$r_0$	$\text{\AA}^a$	$\theta_0$	$\text{deg}^a$
C(1)–C(2)	1.510(5)	C(1)–C(2)–C(3)	111.23(50)
C(2)–C(3)	1.526(5)	C(2)–C(1)–F	111.87(50)
C(1)–F	1.345(5)	H–C(2)–H	106.30(100)
C(2)–H	1.094(10)	C(2)–C(3)–H(s) <sup>b</sup>	111.89(100)
C(3)–H(s) <sup>b</sup>	1.086(10)	C(2)–C(3)–H(a) <sup>b</sup>	110.60(100)
C(3)–H(a) <sup>b</sup>	1.094(10)		



The barrier to internal rotation of the methyl top was determined to be 2635(4) cal mol<sup>-1</sup>.

<sup>a</sup>) Reasonable molecular structure derived from the rotational constants and planar moments of inertia. Uncertainties were not estimated in the original paper.

<sup>b</sup>) H(s) and H(a) denote the methyl hydrogen atoms in-plane and out-of-plane, respectively.



Antolínez, S., López, J.C., Alonso, J.L.: J. Chem. Soc., Faraday Trans. **93** (1997) 1291.