

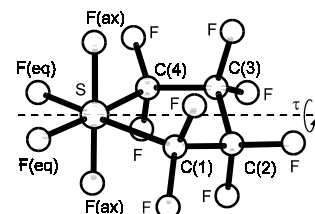
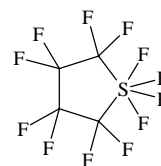
1489  
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**C<sub>4</sub>F<sub>12</sub>S**

**Octafluorotetrahydrothiophene tetrafluoride**

**C<sub>2</sub>**

$r_a$	$\text{\AA}^a$	$\theta_a$	$\text{deg}^a$
C–F	1.336(2)	C–S–C	90.0(9)
C–C (average)	1.541(10)	S–C–C <sup>b</sup>	109.1(8)
S–C	1.896(7)	C–C–C <sup>b</sup>	106.5(12)
S–F (average)	1.576(3)	F–C–F	108.0(15)
$\Delta(\text{S–F})^c$	0.036(9)	F(ax)–S–F(eq)	90.5(15)
S–F(eq) <sup>b</sup>	1.558(6)	F(eq)–S–F(eq)	87.7(29)
S–F(ax) <sup>b</sup>	1.594(6)	$\tau^d$	25.7(7)
$q^e$	0.42(2)		



The nozzle was at room temperature.

<sup>a</sup>) Three times the estimated standard errors including a systematic error.

<sup>b</sup>) Dependent parameter.

<sup>c</sup>) [S–F(ax)] – [S–F(eq)].

<sup>d</sup>) Twist angle of the C(2)–C(3) bond about the C<sub>2</sub> symmetry axis.

<sup>e</sup>) Puckering amplitude; for definition see [1].

Gupta, K.D., Shreeve, J.M., Oberhammer, H.: J. Mol. Struct. **147** (1986) 363.

[1] Kilpatrick, J.E., Pitzer, K.S., Spitzer, R.: J. Am. Chem. Soc. **69** (1947) 2483.