

1253
ED

C₃H₆F₄P₂S₂

1,3-Bis(difluorophosphinothio)propane

C₂

F₂P-S-CH₂-CH₂-CH₂-S-PF₂

r_a	Å ^{a)}	θ_a	deg ^{a)}
P-S	2.117(6)	F-P-F	99.1(14)
P-F	1.577(4)	F-P-S	101.1(5)
S-C	1.844(9)	P-S-C	100.0 ^{b)}
C-C	1.530 ^{b)}	S-C-C	108.4 ^{b)}
C-H	1.086 ^{b)}	C-C-C	109.0 ^{b)}
		C-C-H	109.5 ^{b)}
		H-C-H	108.0 ^{b)}
		M-P(1)-S(4)-C(5) ^{c)}	-31.1(35) ^{d)}
		P(1)-S(4)-C(5)-C(6)	85.1(22) ^{e)}
		S(4)-C(5)-C(6)-C(7)	-142.6(29) ^{f)}

The analysis indicated that the vapor passing through the nozzle had been contaminated with PF₃ with the molar ratio of PF₃ to the sample refined to 1.68.

The nozzle temperature was 295 K.

^{a)} Uncertainties were unidentified, possibly estimated standard errors.

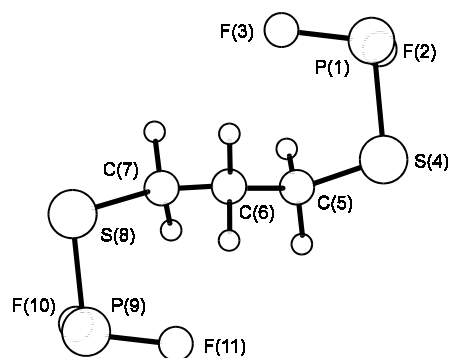
^{b)} Assumed.

^{c)} M is the middle point of F(2) and F(3) atoms.

^{d)} Defined as zero when M-P(1) is *syn* to the S-C bond.

^{e)} Defined as zero when C(5)-C(6) is *anti* to the S-P bond.

^{f)} Defined as zero when C(6)-C(7) is *syn* to the S(4)-C(5) bond.



Bell, G.A., Blake, A.J., Gould, R.O., Rankin, D.W.H.: J. Fluor. Chem. **51** (1991) 305.