

1521
ED

C₄H₃Cl₂PS

Dichloro-2-thienylphosphine

C₁

r_a	\AA^a	θ_a	deg^a
C–H	1.075 ^{b)}	S–C–P	128.7(9)
C–C	1.437(23)	C–S–P	93.4(11)
C=C	1.379(11)	C–P–Cl	99.2(11)
S–C	1.739(11)	Cl–P–Cl	97.6(6)
P–C	1.776(25)	C(2)=C(3)–C(4)	113.3 ^{b)}
P–Cl	2.059(3)	S–C(2)=C(3)	110.3 ^{b)}
		P–C=C	121.4 ^{b)}
		ϕ ^{c)}	47.9(34)
		τ_1 ^{d)}	0 ^{e)}
		τ_2 ^{f)}	98.9 ^{e)}

The nozzle temperature was $\approx 40^\circ\text{C}$.

^{a)} Three times the estimated standard errors including the scale error.

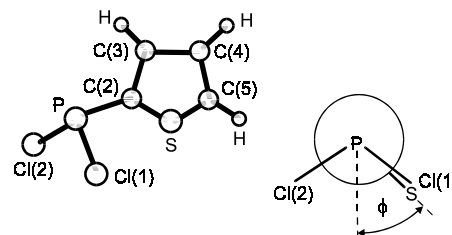
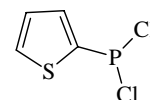
^{b)} Assumed.

^{c)} Angle between the bisector of the angle Cl–P–Cl and the PCS plane; $\phi = 0^\circ$ when the bisector is eclipsed with respect to the C(2)–S bond.

^{d)} Dihedral angle S–C(2)–P–Cl(1) from *syn* position.

^{e)} Dependent parameter.

^{f)} Dihedral angle S–C(2)–P–Cl(2) from *syn* position.



Shaidulin, S.A., Naumov, V.A.: Zh. Strukt. Khim. **20** (1979) 728; Russ. J. Struct. Chem. (Engl. Transl.) **20** (1979) 617.