

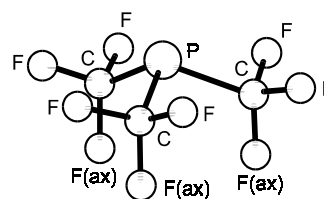
1026
ED

C₃F₉P

Tris(trifluoromethyl)phosphine

essentially C_{3v}
P(CF₃)₃

r_g	Å ^{a)}	θ_α	deg ^{a)}
C–F	1.340(3)	C–P–C	97.2(7)
P–C	1.904(7)	F–C–F	107.5(3)
		tilt (CF ₃) ^{b)}	5.3(9)
		twist (CF ₃) ^{b)}	5.5(60)



The nozzle was at room temperature.

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

^{b)} A positive value of tilt increases the P–C–F(ax) angles. A non-zero value of twist implies that the CF₃ group is twisted about its threefold axis from the all-staggered conformation (C_{3v}).

Marsden, C.J., Bartell, L.S.: Inorg. Chem. **15** (1976) 2713.