

1843
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C₄H₁₂ClN₂P

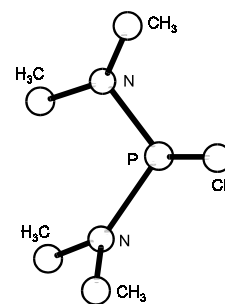
Bis(dimethylamino)chlorophosphine

C₁

Tetramethylphosphorodiamidous chloride (CH₃)₂N–PCl–N(CH₃)₂

$r^a)$	$\text{\AA}^b)$
C–H	1.13 ^{c)}
C–N	1.460(4)
P–N	1.730(5)
P–Cl	2.180(4)

$\theta^a)$	deg ^{b)}
Cl–P–N	100.5(7)
N–P–N	96.2(26)
C–N–C	120.3(7)
P–N–C	119.8(5)
N–C–H	114.0 ^{c)}
$\phi_1^d)$	–14.1(56)
$\phi_2^d)$	65.6(34)



The temperature of the measurement was not stated, probably room temperature.

^{a)} Unidentified, possibly r_a and θ_a .

^{b)} Unidentified, possibly estimated standard errors.

^{c)} Assumed.

^{d)} Torsion angles around the P–N bonds, $\phi = 0^\circ$ when the CNC plane is perpendicular to the NPN plane.

Zaripov, N.M., Naumov, V.A., Tuzova, L.L.: Phosphorus **4** (1974) 179.