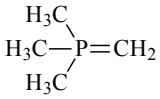
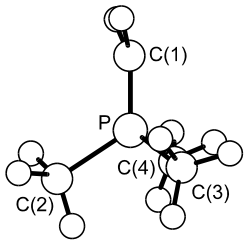
603 **$C_4H_{11}P$** **Methylenetrimethylphosphorane** **C_s**
ED, *ab initio* calculations
(Trimethylphosphino)methanide



r [a])	Å [b])
P=C(1)	1.656(2)
P–C(2)	1.837(6)
P–C(3,4)	1.809(3)

θ [a])	deg [b])
C(1)=P–C(2)	122.4(7)
C(1)=P–C(3)	111.4(13)
C(2)–P–C(3)	101.0(20)
C(3)–P–C(4)	108.3(14)
P=C(1)–H	118.2(18)
H–C(1)–H	115.7(20)
C(2)–P=C(1)–H	±73.9(30)

Reanalysis of experimental data from [1]. MP2/6-311G* calculations predicted C_s symmetry of the molecule. *Ab initio* values were used as constraints in the ED analysis.
The nozzle temperature was 347 K.



[a]) Unidentified, possibly r_a and θ_a.
[b]) Unidentified, possibly estimated standard errors.

Mitzel, N.W., Brown, D.H., Parsons, S., Brain, P.T., Pulham, C.R., Rankin, D.W.H.: Angew. Chem. **110** (1998) 1767; Angew. Chem., Int. Ed. Engl. **37** (1998) 1670.
[1] Ebsworth, E.A.V., Fraser, T.E., Rankin, D.W.H.: Chem. Ber. **110** (1977) 3494.

Replaces II/25C (**3**, 1836)