

1857
ED

C₄H₁₂P₂

Tetramethyldiphosphine

C₂
(H₃C)₂P–P(CH₃)₂

| r_g | Å ^{a)} | θ ^{b)} | deg ^{a)} |
|-------|-----------------|--|-------------------|
| C–H | 1.109(9) | C–P–C | 99.6(10) |
| C–P | 1.853(3) | P–C–H | 108.8(25) |
| P–P | 2.192(9) | C–P–P | 101.1(7) |
| | | $\tau(\text{C}(2)\text{--P--P--C}(4))$ ^{c)} | 164(23) |

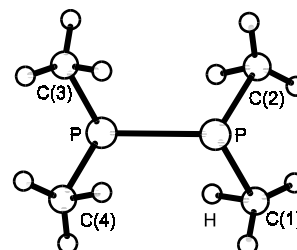
It was assumed that the methyl groups have C_{3v} symmetry, no tilt and staggered conformation with respect to the opposite P–C bond.

The nozzle temperature was 443...445 K.

^{a)} Estimated standard errors.

^{b)} Unidentified, possibly θ_a .

^{c)} $\tau = 0^\circ$ for the *syn* position. The apparent deviation of 16° from the *anti* configuration is possibly due to a shrinkage effect involving a low-frequency torsional oscillation.



McAdam, A., Beagley, B., Hewitt, T.G.: Trans. Faraday Soc. **66** (1970) 2732.