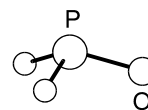


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MW**H₂OP****Phosphorus dihydride monoxide**
Phosphinoxy**C_s**
H₂PO

| r_0 | Å ^{a)} | θ_0 | deg ^{a)} |
|-------|-----------------|------------|-------------------|
| P–O | 1.4875(4) | H–P–H | 102.56(14) |
| P–H | 1.4287(14) | H–P–O | 115.52(10) |



Rotational spectra of the H₂PO radical in the X²A' ground electronic state were observed. The spectral pattern, including hyperfine structure, suggests that the radical has a pyramidal structure with C_s symmetry. The P–O bond of H₂PO is intermediate between the normal single and double P–O bonds.

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

Hirao, T., Saito, S., Ozeki, H.: J. Chem. Phys. **105** (1996) 3450.