

# P2F4

**Other names:** Diphosphorus tetrafluoride  
Tetrafluorodiphosphine

**Inchi:** InChI=1S/F4P2/c1-5(2)6(3)4

**InchiKey:** PCIAPVMJDQUHAP-UHFFFAOYSA-N

**Formula:** F4P2

**SMILES:** FP(F)P(F)F

**Mol. weight [g/mol]:** 137.94

**CAS:** 13824-74-3

## Physical Properties

Property code	Value	Unit	Source
ie	9.28	eV	NIST Webbook
ie	9.30 ± 0.10	eV	NIST Webbook
ie	9.64	eV	NIST Webbook
log10ws	4.10		Crippen Method
logp	3.403		Crippen Method
mcvol	58.860	ml/mol	McGowan Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13824743&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**ie:** Ionization energy

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/38-078-4/P2F4.pdf>

Generated by Cheméo on 2024-11-11 13:09:39.887796662 +0000 UTC m=+5911442.524765910.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.