

# Diphosphorous tetrafluoride

|                             |   |
|-----------------------------|---|
| <b>Other names:</b>         | Diphosphorus tetrafluoride<br>Bis-difluorophosphinic oxide<br>Diphosphorus tetrafluoride oxide<br>Diphosphorous tetrafluoride oxide |
| <b>Inchi:</b>               | InChI=1S/F4OP2/c1-6(2)5-7(3)4   |
| <b>InchiKey:</b>            | BOCCVSWJBAYVHO-UHFFFAOYSA-N   |
| <b>Formula:</b>             | F4OP2   |
| <b>SMILES:</b>              | FP(F)OP(F)F   |
| <b>Mol. weight [g/mol]:</b> | 153.94  |
| <b>CAS:</b>                 | 13812-07-2  |

## Physical Properties

| Property code | Value  | Unit   | Source         |
|---------------|--------|--------|----------------|
| ie            | 11.20  | eV     | NIST Webbook   |
| log10ws       | 4.03   |        | Crippen Method |
| logp          | 3.335  |        | Crippen Method |
| mcvol         | 64.730 | ml/mol | McGowan Method |

## Sources

|                        |   |
|------------------------|---|
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13812072&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13812072&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>                                     |

## Legend

|                 |                                     |
|-----------------|-------------------------------------|
| <b>ie:</b>      | Ionization energy                   |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l  |
| <b>logp:</b>    | Octanol/Water partition coefficient |
| <b>mcvol:</b>   | McGowan's characteristic volume     |

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