# n-Propyl methylphosphonofluoridate

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|---|---|
| **Other names:** | Phoshonofluoridic acid, methyl-, propyl ester |
| | Methylphoshonic acid, fluoroanhydride-, propyl ester |
| | Propyl methylphosphonofluoridate |
| **Inchi:** | InChI=1S/C4H10FO2P/c1-3-4-7-8(2,5)6/h3-4H2,1-2H3 |
| **InchiKey:** | FTULZFLNJJKTBS-UHFFFAOYSA-N |
| **Formula:** | C4H10FO2P |
| **SMILES:** | CCCOP(C)(=O)F |
| **Mol. weight [g/mol]:** | 140.09 |
| **CAS:** | 763-14-4 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -2.71 | | Crippen Method |
| logp | 2.205 | | Crippen Method |
| mcvol | 101.190 | ml/mol | McGowan Method |
| rinpol | 869.00 | | NIST Webbook |
| rinpol | 868.90 | | NIST Webbook |
| rinpol | 869.00 | | NIST Webbook |
| rinpol | 868.90 | | NIST Webbook |

## Sources

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|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C763144&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

## Legend

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|---|---|
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |

**mcvol:** McGowan's characteristic volume

**rinpol:** Non-polar retention indices