# Psilocybine

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|---|---|
| **Other names:** | Psilocybin |
| | 1H-Indol-4-ol, 3-[2-(dimethylamino)ethyl]-, dihydrogen phosphate (ester) |
| | Indol-4-ol, 3-[2-(dimethylamino)ethyl]-, dihydrogen phosphate (ester) |
| | Cy 39 |
| | Indocybin |
| | 3-[2-(Dimethylamino)ethyl]indol-4-ol dihydrogen phosphate ester |
| | 3-[2-(Dimethylamino)ethyl]indol-4-yl dihydrogen phosphate |
| | 1H-Indol-4-ol, 3-[2-(dimethylamino)ethyl]-, dihydrogen phosphate |
| | Indol-4-ol, 3-(2-(dimethylamino)ethyl)-, dihydrogen phosphate |
| | 3-(2-(Dimethylamino)ethyl)-1H-indol-4-ol dihydrogen phosphate ester |
| | 3-2'-Dimethylaminoethylindol-4-phosphate |
| | O-Phosphoryl-4-hydroxy-N,N-dimethyltryptamine |
| | 4-Phosphoryloxy-N,N-dimethyltryptamine |
| | Psilocibin |
| | Psilocin phosphate ester |
| | Psilotsibin |
| | Teonanacatl |
| | Psylocybin |
| **Inchi:** | InChI=1S/C12H17N2O4P/c1-14(2)7-6-9-8-13-10-4-3-5-11(12(9)10)18-19(15,16)17/h3-5,8 |
| **InchiKey:** | QVDSEJDULKLHCG-UHFFFAOYSA-N |
| **Formula:** | C12H17N2O4P |
| **SMILES:** | CN(C)CCc1c[nH]c2cccc(OP(=O)(O)O)c12 |
| **Mol. weight [g/mol]:** | 284.25 |
| **CAS:** | 520-52-5 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -4.20 | | Crippen Method |
| logp | 1.262 | | Crippen Method |
| mcvol | 204.920 | ml/mol | McGowan Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C520525&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |