# 2(1H)-Pyridinone

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|---|---|
| **Other names:** | «alpha»-Pyridone |
| | 2-Hydroxypyridine |
| | 2(1H)-Pyridone |
| | 2-Oxopyridine |
| | 2-Pyridinol |
| | 2-Pyridinone |
| | 2-Pyridone |
| | 2-Pyridol |
| | Pyridone-2 |
| | 1-Hydroxy-2-pyridine |
| | 1H-Pyridin-2-one |
| **Inchi:** | InChI=1S/C5H5NO/c7-5-3-1-2-4-6-5/h1-4H,(H,6,7) |
| **InchiKey:** | UBQKCCHYAOITMY-UHFFFAOYSA-N |
| **Formula:** | C5H5NO |
| **SMILES:** | O=c1cccc[nH]1 |
| **Mol. weight [g/mol]:** | 95.10 |
| **CAS:** | 142-08-5 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hsub | 86.60 ± 1.30 | kJ/mol | NIST Webbook |
| ie | 8.45 ± 0.00 | eV | NIST Webbook |
| ie | 8.62 ± 0.03 | eV | NIST Webbook |
| ie | 9.00 ± 0.10 | eV | NIST Webbook |
| ie | 8.45 ± 0.00 | eV | NIST Webbook |
| log10ws | -0.11 | | Crippen Method |
| logp | -0.107 | | Crippen Method |
| mcvol | 73.400 | ml/mol | McGowan Method |
| rinpol | 1094.00 | | NIST Webbook |
| rinpol | 1094.00 | | NIST Webbook |
| rinpol | 1094.00 | | NIST Webbook |
| rinpol | 1095.00 | | NIST Webbook |
| rinpol | 1094.00 | | 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=C142085&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **hsub:** | Enthalpy of sublimation at standard conditions |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **rinpol:** | Non-polar retention indices |