# 4-Piperidinone, 1-benzoyl-

| | |
|---|---|
| **Other names:** | 1-Benzoyl-4-oxopiperidine |
| | 1-Benzoyl-4-piperidinone |
| | N-Benzoyl-4-piperidone |
| | 1-Benzoyl-4-piperidone |
| | 4-Piperidone, 1-benzoyl- |
| | 1-Benzoyl-piperidinoine |
| | 1-Benzoyl-piperidin-4-one |
| **Inchi:** | InChI=1S/C12H13NO2/c14-11-6-8-13(9-7-11)12(15)10-4-2-1-3-5-10/h1-5H,6-9H2 |
| **InchiKey:** | NZAXGZYPZGEVBD-UHFFFAOYSA-N |
| **Formula:** | C12H13NO2 |
| **SMILES:** | O=C1CCN(C(=O)c2ccccc2)CC1 |
| **Mol. weight [g/mol]:** | 203.24 |
| **CAS:** | 24686-78-0 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -2.05 | | Crippen Method |
| logp | 1.492 | | Crippen Method |
| mcvol | 158.440 | ml/mol | McGowan Method |

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 432.20 | K | 0.03 | NIST Webbook |

## Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C24686780&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tbrp:** | Boiling point at reduced pressure |

Latest version available from:
https://www.chemeo.com/cid/85-651-5/4-Piperidinone-1-benzoyl.pdf
Generated by Cheméo on 2025-12-06 01:21:46.983346274 +0000 UTC m=+4732304.513386938.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.