# Methanone, diphenyl-, oxime

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|---|---|
| **Other names:** | Benzophenone, oxime |
| | Benzophenoxime |
| | Diphenyl ketoxime |
| | Diphenylmethanone oxime |
| | (Diphenylmethylene)hydroxylamine |
| **Inchi:** | InChI=1S/C13H11NO/c15-14-13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10,15H |
| **InchiKey:** | DNYZBFWKVMKMRM-UHFFFAOYSA-N |
| **Formula:** | C13H11NO |
| **SMILES:** | ON=C(c1ccccc1)c1ccccc1 |
| **Mol. weight [g/mol]:** | 197.23 |
| **CAS:** | 574-66-3 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | 81.61 | kJ/mol | Joback Method |
| hvap | 69.16 | kJ/mol | Joback Method |
| log10ws | -2.49 | | Crippen Method |
| logp | 2.913 | | Crippen Method |
| mcvol | 158.060 | ml/mol | McGowan Method |
| pc | 3045.68 | kPa | Joback Method |
| tb | 718.94 | K | Joback Method |
| tc | 960.00 | K | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C574663&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |