# 1-Ethyl-4-piperidone

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|---|---|
| **Other names:** | 4-Piperidinone, 1-ethyl- |
| | 1-ethylpiperidin-4-one |
| **Inchi:** | InChI=1S/C7H13NO/c1-2-8-5-3-7(9)4-6-8/h2-6H2,1H3 |
| **InchiKey:** | BDVKAMAALQXGLM-UHFFFAOYSA-N |
| **Formula:** | C7H13NO |
| **SMILES:** | CCN1CCC(=O)CC1 |
| **Mol. weight [g/mol]:** | 127.18 |
| **CAS:** | 3612-18-8 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hvap | 56.70 ± 0.60 | kJ/mol | NIST Webbook |
| log10ws | -0.50 | | Crippen Method |
| logp | 0.671 | | Crippen Method |
| mcvol | 110.180 | ml/mol | McGowan Method |

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 320.20 | K | 0.10 | NIST Webbook |

## Sources

| | |
|---|---|
| **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=C3612188&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |
| **tbrp:** | Boiling point at reduced pressure |

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