# 1-Pyrrolidinecarboxaldehyde

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|---|---|
| **Other names:** | N-Formylpyrrolidine |
| | 1-Formylpyrrolidine |
| | Prolinal |
| | pyrrolidine-1-carbaldehyde |
| **Inchi:** | InChI=1S/C5H9NO/c7-5-6-3-1-2-4-6/h5H,1-4H2 |
| **InchiKey:** | AGRIQBHIKABLPJ-UHFFFAOYSA-N |
| **Formula:** | C5H9NO |
| **SMILES:** | O=CN1CCCC1 |
| **Mol. weight [g/mol]:** | 99.13 |
| **CAS:** | 3760-54-1 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -0.16 | | Crippen Method |
| logp | 0.239 | | Crippen Method |
| mcvol | 82.000 | ml/mol | McGowan Method |
| ripol | 1691.00 | | NIST Webbook |

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 369.50 ± 1.50 | K | 2.30 | NIST Webbook |

## Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C3760541&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

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