# 1-Hydroxy-2-naphthamide

**Inchi:** InChI=1S/C11H9NO2/c12-11(14)9-6-5-7-3-1-2-4-8(7)10(9)13/h1-6,13H,(H2,12,14)
**InchiKey:** ZTXWIKHKNGFJAX-UHFFFAOYSA-N
**Formula:** C11H9NO2
**SMILES:** NC(=O)c1ccc2ccccc2c1O
**Mol. weight [g/mol]:** 187.19
**CAS:** 62353-80-4

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 34.08 | kJ/mol | Joback Method |
| hf | -110.34 | kJ/mol | Joback Method |
| hfus | 27.50 | kJ/mol | Joback Method |
| hvap | 75.06 | kJ/mol | Joback Method |
| log10ws | -2.99 | | Crippen Method |
| logp | 1.644 | | Crippen Method |
| mcvol | 140.050 | ml/mol | McGowan Method |
| pc | 4795.85 | kPa | Joback Method |
| tb | 708.74 | K | Joback Method |
| tc | 967.14 | K | Joback Method |
| tf | 530.28 | K | Joback Method |
| vc | 0.467 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 362.28 | J/mol×K | 708.74 | Joback Method |
| cpg | 372.47 | J/mol×K | 751.81 | Joback Method |
| cpg | 381.93 | J/mol×K | 794.87 | Joback Method |
| cpg | 390.81 | J/mol×K | 837.94 | Joback Method |
| cpg | 399.28 | J/mol×K | 881.01 | Joback Method |
| cpg | 407.51 | J/mol×K | 924.07 | Joback Method |
| cpg | 415.64 | J/mol×K | 967.14 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C62353804&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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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion 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 |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |