# Cyclobutanecarboxamide, N-(1-naphthyl)-

**Inchi:** InChI=1S/C15H15NO/c17-15(12-7-3-8-12)16-14-10-4-6-11-5-1-2-9-13(11)14/h1-2,4-6,9-1
**InchiKey:** YAFPZQHQVYLBJF-UHFFFAOYSA-N
**Formula:** C15H15NO
**SMILES:** O=C(Nc1cccc2ccccc12)C1CCC1
**Mol. weight [g/mol]:** 225.29

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 293.97 | kJ/mol | Joback Method |
| hf | 70.73 | kJ/mol | Joback Method |
| hfus | 28.01 | kJ/mol | Joback Method |
| hvap | 66.83 | kJ/mol | Joback Method |
| log10ws | -4.39 | | Crippen Method |
| logp | 3.578 | | Crippen Method |
| mcvol | 179.680 | ml/mol | McGowan Method |
| pc | 2871.95 | kPa | Joback Method |
| rinpol | 2186.00 | | NIST Webbook |
| tb | 708.29 | K | Joback Method |
| tc | 953.86 | K | Joback Method |
| tf | 447.46 | K | Joback Method |
| vc | 0.679 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 498.00 | J/mol×K | 708.29 | Joback Method |
| cpg | 513.85 | J/mol×K | 749.22 | Joback Method |
| cpg | 528.44 | J/mol×K | 790.15 | Joback Method |
| cpg | 541.90 | J/mol×K | 831.08 | Joback Method |
| cpg | 554.35 | J/mol×K | 872.00 | Joback Method |
| cpg | 565.93 | J/mol×K | 912.93 | Joback Method |
| cpg | 576.77 | J/mol×K | 953.86 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307054&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |