# Propanamide, N-(1-naphthyl)-2-chloro-

**Inchi:** InChI=1S/C13H12ClNO/c1-9(14)13(16)15-12-8-4-6-10-5-2-3-7-11(10)12/h2-9H,1H3,(H,1
**InchiKey:** HZEXEFBFZFWVOD-UHFFFAOYSA-N
**Formula:** C13H12ClNO
**SMILES:** CC(Cl)C(=O)Nc1cccc2ccccc12
**Mol. weight [g/mol]:** 233.69

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 214.11 | kJ/mol | Joback Method |
| hf | 24.35 | kJ/mol | Joback Method |
| hfus | 27.47 | kJ/mol | Joback Method |
| hvap | 66.29 | kJ/mol | Joback Method |
| log10ws | -4.16 | | Crippen Method |
| logp | 3.406 | | Crippen Method |
| mcvol | 174.600 | ml/mol | McGowan Method |
| pc | 2896.73 | kPa | Joback Method |
| rinpol | 1968.00 | | NIST Webbook |
| rinpol | 1968.00 | | NIST Webbook |
| tb | 688.51 | K | Joback Method |
| tc | 928.04 | K | Joback Method |
| tf | 425.42 | K | Joback Method |
| vc | 0.661 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 434.02 | J/mol×K | 688.51 | Joback Method |
| cpg | 446.98 | J/mol×K | 728.43 | Joback Method |
| cpg | 458.91 | J/mol×K | 768.35 | Joback Method |
| cpg | 469.90 | J/mol×K | 808.28 | Joback Method |
| cpg | 480.04 | J/mol×K | 848.20 | Joback Method |
| cpg | 489.41 | J/mol×K | 888.12 | Joback Method |
| cpg | 498.11 | J/mol×K | 928.04 | Joback Method |

# Sources

| | |
|---|---|
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307491&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **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 |

Latest version available from:

https://www.chemeo.com/cid/117-113-6/Propanamide-N-1-naphthyl-2-chloro.pdf

Generated by Cheméo on 2024-10-12 08:48:10.468620707 +0000 UTC m=+3303753.105589956.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.