# Hexanamide, N-(1-naphthyl)-

**Inchi:** InChI=1S/C16H19NO/c1-2-3-4-12-16(18)17-15-11-7-9-13-8-5-6-10-14(13)15/h5-11H,2-4
**InchiKey:** WWCYIHPKOXDRJX-UHFFFAOYSA-N
**Formula:** C16H19NO
**SMILES:** CCCCCC(=O)Nc1cccc2ccccc12
**Mol. weight [g/mol]:** 241.33

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 253.74 | kJ/mol | Joback Method |
| hf | -16.55 | kJ/mol | Joback Method |
| hfus | 34.56 | kJ/mol | Joback Method |
| hvap | 68.97 | kJ/mol | Joback Method |
| log10ws | -5.15 | | Crippen Method |
| logp | 4.359 | | Crippen Method |
| mcvol | 204.630 | ml/mol | McGowan Method |
| pc | 2231.30 | kPa | Joback Method |
| rinpol | 2226.00 | | NIST Webbook |
| tb | 720.16 | K | Joback Method |
| tc | 939.93 | K | Joback Method |
| tf | 444.31 | K | Joback Method |
| vc | 0.786 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 564.31 | J/mol×K | 720.16 | Joback Method |
| cpg | 579.53 | J/mol×K | 756.79 | Joback Method |
| cpg | 593.74 | J/mol×K | 793.42 | Joback Method |
| cpg | 606.99 | J/mol×K | 830.05 | Joback Method |
| cpg | 619.38 | J/mol×K | 866.68 | Joback Method |
| cpg | 630.97 | J/mol×K | 903.31 | Joback Method |
| cpg | 641.85 | J/mol×K | 939.93 | Joback Method |

# Sources

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|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307294&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |