# Benzamide, N-(1-naphthyl)-4-ethyl-

**Inchi:** InChI=1S/C19H17NO/c1-2-14-10-12-16(13-11-14)19(21)20-18-9-5-7-15-6-3-4-8-17(15)18
**InchiKey:** VYYDNUDQUVPTFR-UHFFFAOYSA-N
**Formula:** C19H17NO
**SMILES:** CCc1ccc(C(=O)Nc2cccc3ccccc23)cc1
**Mol. weight [g/mol]:** 275.34

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 381.78 | kJ/mol | Joback Method |
| hf | 146.59 | kJ/mol | Joback Method |
| hfus | 35.99 | kJ/mol | Joback Method |
| hvap | 78.59 | kJ/mol | Joback Method |
| log10ws | -6.05 | | Crippen Method |
| logp | 4.654 | | Crippen Method |
| mcvol | 223.140 | ml/mol | McGowan Method |
| pc | 2291.52 | kPa | Joback Method |
| rinpol | 2730.00 | | NIST Webbook |
| rinpol | 2730.00 | | NIST Webbook |
| tb | 820.46 | K | Joback Method |
| tc | 1067.93 | K | Joback Method |
| tf | 517.06 | K | Joback Method |
| vc | 0.847 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 635.87 | J/mol×K | 820.46 | Joback Method |
| cpg | 650.39 | J/mol×K | 861.70 | Joback Method |
| cpg | 663.79 | J/mol×K | 902.95 | Joback Method |
| cpg | 676.17 | J/mol×K | 944.19 | Joback Method |
| cpg | 687.68 | J/mol×K | 985.44 | Joback Method |
| cpg | 698.43 | J/mol×K | 1026.68 | Joback Method |
| cpg | 708.55 | J/mol×K | 1067.93 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307021&Units=SI |

# 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 |

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