

# 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)1  
**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

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307021&amp;Units=SI</a> |

# Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rlnpol:</b>  | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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