# Benzamide, 2,6-difluoro-3-methyl-N-hept-2-yl-

**Inchi:** InChI=1S/C15H21F2NO/c1-4-5-6-7-11(3)18-15(19)13-12(16)9-8-10(2)14(13)17/h8-9,11H
**InchiKey:** QGWIRWAPNUKGPP-UHFFFAOYSA-N
**Formula:** C15H21F2NO
**SMILES:** CCCCCC(C)NC(=O)c1c(F)ccc(C)c1F
**Mol. weight [g/mol]:** 269.33

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -272.65 | kJ/mol | Joback Method |
| hf | -607.42 | kJ/mol | Joback Method |
| hfus | 36.81 | kJ/mol | Joback Method |
| hvap | 64.41 | kJ/mol | Joback Method |
| log10ws | -5.58 | | Crippen Method |
| logp | 3.972 | | Crippen Method |
| mcvol | 213.540 | ml/mol | McGowan Method |
| pc | 1768.38 | kPa | Joback Method |
| rinpol | 1930.00 | | NIST Webbook |
| rinpol | 1930.00 | | NIST Webbook |
| tb | 686.36 | K | Joback Method |
| tc | 877.00 | K | Joback Method |
| tf | 411.56 | K | Joback Method |
| vc | 0.839 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 590.19 | J/mol×K | 686.36 | Joback Method |
| cpg | 605.29 | J/mol×K | 718.13 | Joback Method |
| cpg | 619.58 | J/mol×K | 749.91 | Joback Method |
| cpg | 633.06 | J/mol×K | 781.68 | Joback Method |
| cpg | 645.77 | J/mol×K | 813.46 | Joback Method |
| cpg | 657.73 | J/mol×K | 845.23 | Joback Method |
| cpg | 668.97 | J/mol×K | 877.00 | 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=U407740&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 |