# Benzamide, 4-methyl-N-(hept-2-yl)-

**Inchi:** InChI=1S/C15H23NO/c1-4-5-6-7-13(3)16-15(17)14-10-8-12(2)9-11-14/h8-11,13H,4-7H2,
**InchiKey:** ZKRXZMYQHZOKFU-UHFFFAOYSA-N
**Formula:** C15H23NO
**SMILES:** CCCCCC(C)NC(=O)c1ccc(C)cc1
**Mol. weight [g/mol]:** 233.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 136.23 | kJ/mol | Joback Method |
| hf | -192.26 | kJ/mol | Joback Method |
| hfus | 31.43 | kJ/mol | Joback Method |
| hvap | 64.72 | kJ/mol | Joback Method |
| log10ws | -4.92 | | Crippen Method |
| logp | 3.694 | | Crippen Method |
| mcvol | 210.000 | ml/mol | McGowan Method |
| pc | 1961.34 | kPa | Joback Method |
| rinpol | 1969.00 | | NIST Webbook |
| tb | 677.86 | K | Joback Method |
| tc | 881.81 | K | Joback Method |
| tf | 385.34 | K | Joback Method |
| vc | 0.802 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 575.38 | J/mol×K | 677.86 | Joback Method |
| cpg | 592.11 | J/mol×K | 711.85 | Joback Method |
| cpg | 607.84 | J/mol×K | 745.84 | Joback Method |
| cpg | 622.63 | J/mol×K | 779.84 | Joback Method |
| cpg | 636.50 | J/mol×K | 813.83 | Joback Method |
| cpg | 649.50 | J/mol×K | 847.82 | Joback Method |
| cpg | 661.67 | J/mol×K | 881.81 | Joback Method |

# Sources

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|---|---|
| **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=U407469&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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