# 2,3,4,5,6-Pentafluoro-N-(4-methoxyphenyl)benzam

**Other names:** Benzamide, N-(4-methoxyphenyl)-2,3,4,5,6-pentafluoro-
**Inchi:** InChI=1S/C14H8F5NO2/c1-22-7-4-2-6(3-5-7)20-14(21)8-9(15)11(17)13(19)12(18)10(8)1
**InchiKey:** HJRCAPVDAKKDQK-UHFFFAOYSA-N
**Formula:** C14H8F5NO2
**SMILES:** COc1ccc(NC(=O)c2c(F)c(F)c(F)c(F)c2F)cc1
**Mol. weight [g/mol]:** 317.21
**CAS:** 297149-72-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -884.54 | kJ/mol | Joback Method |
| hf | -1099.93 | kJ/mol | Joback Method |
| hfus | 41.05 | kJ/mol | Joback Method |
| hvap | 66.79 | kJ/mol | Joback Method |
| log10ws | -5.23 | | Crippen Method |
| logp | 3.643 | | Crippen Method |
| mcvol | 186.870 | ml/mol | McGowan Method |
| pc | 2151.31 | kPa | Joback Method |
| rinpol | 1960.00 | | NIST Webbook |
| rinpol | 1960.00 | | NIST Webbook |
| tb | 725.77 | K | Joback Method |
| tc | 925.84 | K | Joback Method |
| tf | 503.27 | K | Joback Method |
| vc | 0.752 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 498.61 | J/mol×K | 725.77 | Joback Method |
| cpg | 509.39 | J/mol×K | 759.12 | Joback Method |
| cpg | 519.43 | J/mol×K | 792.46 | Joback Method |
| cpg | 528.76 | J/mol×K | 825.81 | Joback Method |
| cpg | 537.38 | J/mol×K | 859.15 | Joback Method |
| cpg | 545.29 | J/mol×K | 892.50 | Joback Method |

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|---|---|---|---|---|
| cpg | 552.50 | J/mol×K | 925.84 | Joback Method |

# Sources

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|---|---|
| **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=C297149725&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 |