# Benzamide, N-(2-fluorophenyl)-3-methoxy-

**Inchi:** InChI=1S/C14H12FNO2/c1-18-11-6-4-5-10(9-11)14(17)16-13-8-3-2-7-12(13)15/h2-9H,1H
**InchiKey:** GIUMGIOTJZLCCG-UHFFFAOYSA-N
**Formula:** C14H12FNO2
**SMILES:** COc1cccc(C(=O)Nc2ccccc2F)c1
**Mol. weight [g/mol]:** 245.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -66.78 | kJ/mol | Joback Method |
| hf | -269.61 | kJ/mol | Joback Method |
| hfus | 30.29 | kJ/mol | Joback Method |
| hvap | 67.41 | kJ/mol | Joback Method |
| log10ws | -3.90 | | Crippen Method |
| logp | 3.087 | | Crippen Method |
| mcvol | 179.790 | ml/mol | McGowan Method |
| pc | 2724.01 | kPa | Joback Method |
| rinpol | 2054.00 | | NIST Webbook |
| rinpol | 2054.00 | | NIST Webbook |
| tb | 708.77 | K | Joback Method |
| tc | 939.76 | K | Joback Method |
| tf | 450.83 | K | Joback Method |
| vc | 0.680 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 472.24 | J/mol×K | 708.77 | Joback Method |
| cpg | 485.76 | J/mol×K | 747.27 | Joback Method |
| cpg | 498.23 | J/mol×K | 785.77 | Joback Method |
| cpg | 509.67 | J/mol×K | 824.26 | Joback Method |
| cpg | 520.12 | J/mol×K | 862.76 | Joback Method |
| cpg | 529.63 | J/mol×K | 901.26 | Joback Method |
| cpg | 538.23 | J/mol×K | 939.76 | 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=U308146&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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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