

Benzamide, N-(2-iodo-4-methylphenyl)-4-fluoro-

Inchi: InChI=1S/C14H11FINO/c1-9-2-7-13(12(16)8-9)17-14(18)10-3-5-11(15)6-4-10/h2-8H,1H3

InchiKey: VTNPUTIHPWGLBN-UHFFFAOYSA-N

Formula: C14H11FINO

SMILES: Cc1ccc(NC(=O)c2ccc(F)cc2)c(I)c1

Mol. weight [g/mol]: 355.15

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 86.71 | kJ/mol | Joback Method |
| hf | -71.99 | kJ/mol | Joback Method |
| hfus | 33.12 | kJ/mol | Joback Method |
| hvap | 75.03 | kJ/mol | Joback Method |
| log10ws | -5.40 | | Crippen Method |
| logp | 3.991 | | Crippen Method |
| mvol | 199.740 | ml/mol | McGowan Method |
| pc | 2668.02 | kPa | Joback Method |
| rinpol | 2408.00 | | NIST Webbook |
| rinpol | 2408.00 | | NIST Webbook |
| tb | 784.47 | K | Joback Method |
| tc | 1042.85 | K | Joback Method |
| tf | 499.18 | K | Joback Method |
| vc | 0.750 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 488.36 | J/molxK | 784.47 | Joback Method |
| cpg | 500.13 | J/molxK | 827.53 | Joback Method |
| cpg | 510.84 | J/molxK | 870.60 | Joback Method |
| cpg | 520.59 | J/molxK | 913.66 | Joback Method |
| cpg | 529.46 | J/molxK | 956.72 | Joback Method |
| cpg | 537.54 | J/molxK | 999.78 | Joback Method |
| cpg | 544.91 | J/molxK | 1042.85 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U307108&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.cheméo.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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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