

Benzamide, N-(4-bromophenyl)-4-fluoro-

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|-----------------------------|---|
| Inchi: | InChI=1S/C13H9BrFNO/c14-10-3-7-12(8-4-10)16-13(17)9-1-5-11(15)6-2-9/h1-8H,(H,16,17) |
| InchiKey: | QRKJOEDGVGFSHE-UHFFFAOYSA-N |
| Formula: | C13H9BrFNO |
| SMILES: | O=C(Nc1ccc(Br)cc1)c1ccc(F)cc1 |
| Mol. weight [g/mol]: | 294.12 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 44.12 | kJ/mol | Joback Method |
| hf | -90.42 | kJ/mol | Joback Method |
| hfus | 31.79 | kJ/mol | Joback Method |
| hvap | 69.21 | kJ/mol | Joback Method |
| log10ws | -4.94 | | Crippen Method |
| logp | 3.840 | | Crippen Method |
| mcvol | 177.330 | ml/mol | McGowan Method |
| pc | 3325.84 | kPa | Joback Method |
| rinpola | 2235.00 | | NIST Webbook |
| rinpola | 2235.00 | | NIST Webbook |
| tb | 729.63 | K | Joback Method |
| tc | 979.25 | K | Joback Method |
| tf | 477.13 | K | Joback Method |
| vc | 0.668 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 429.72 | J/molxK | 729.63 | Joback Method |
| cpg | 441.35 | J/molxK | 771.23 | Joback Method |
| cpg | 451.94 | J/molxK | 812.84 | Joback Method |
| cpg | 461.58 | J/molxK | 854.44 | Joback Method |
| cpg | 470.34 | J/molxK | 896.04 | Joback Method |
| cpg | 478.31 | J/molxK | 937.65 | Joback Method |
| cpg | 485.56 | J/molxK | 979.25 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U307105&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |

Latest version available from:

<https://www.chemeo.com/cid/22-497-6/Benzamide-N-4-bromophenyl-4-fluoro.pdf>

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