

3-Fluoro-5-trifluoromethylbenzamide, N-(4-bromophenyl)-

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|-----------------------------|--|
| Inchi: | InChI=1S/C14H8BrF4NO/c15-10-1-3-12(4-2-10)20-13(21)8-5-9(14(17,18)19)7-11(16)6-8 |
| InchiKey: | SOPFRYSXMODMRA-UHFFFAOYSA-N |
| Formula: | C14H8BrF4NO |
| SMILES: | O=C(Nc1ccc(Br)cc1)c1cc(F)cc(C(F)(F)F)c1 |
| Mol. weight [g/mol]: | 362.12 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -538.68 | kJ/mol | Joback Method |
| hf | -719.61 | kJ/mol | Joback Method |
| hfus | 35.82 | kJ/mol | Joback Method |
| hvap | 68.35 | kJ/mol | Joback Method |
| log10ws | -6.05 | | Crippen Method |
| logp | 4.859 | | Crippen Method |
| mcvol | 196.730 | ml/mol | McGowan Method |
| pc | 2600.43 | kPa | Joback Method |
| rinqol | 2210.00 | | NIST Webbook |
| tb | 752.07 | K | Joback Method |
| tc | 979.70 | K | Joback Method |
| tf | 505.11 | K | Joback Method |
| vc | 0.767 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 505.60 | J/molxK | 752.07 | Joback Method |
| cpg | 516.12 | J/molxK | 790.01 | Joback Method |
| cpg | 525.73 | J/molxK | 827.95 | Joback Method |
| cpg | 534.51 | J/molxK | 865.88 | Joback Method |
| cpg | 542.54 | J/molxK | 903.82 | Joback Method |
| cpg | 549.92 | J/molxK | 941.76 | Joback Method |
| cpg | 556.72 | J/molxK | 979.70 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U358151&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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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