

Benzamide, 3-chloro-2-fluoro-N-butyl-

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|-----------------------------|--|
| Inchi: | InChI=1S/C11H13ClFNO/c1-2-3-7-14-11(15)8-5-4-6-9(12)10(8)13/h4-6H,2-3,7H2,1H3,(H |
| InchiKey: | TWXUTIXZZWDHHY-UHFFFAOYSA-N |
| Formula: | C11H13ClFNO |
| SMILES: | CCCCNC(=O)c1cccc(Cl)c1F |
| Mol. weight [g/mol]: | 229.68 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -111.38 | kJ/mol | Joback Method |
| hf | -327.74 | kJ/mol | Joback Method |
| hfus | 31.48 | kJ/mol | Joback Method |
| hvap | 60.43 | kJ/mol | Joback Method |
| log10ws | -4.09 | | Crippen Method |
| logp | 3.009 | | Crippen Method |
| mcvol | 167.650 | ml/mol | McGowan Method |
| pc | 2553.34 | kPa | Joback Method |
| rinpol | 1753.00 | | NIST Webbook |
| tb | 628.46 | K | Joback Method |
| tc | 836.02 | K | Joback Method |
| tf | 398.29 | K | Joback Method |
| vc | 0.651 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 404.47 | J/molxK | 628.46 | Joback Method |
| cpg | 416.99 | J/molxK | 663.05 | Joback Method |
| cpg | 428.75 | J/molxK | 697.65 | Joback Method |
| cpg | 439.78 | J/molxK | 732.24 | Joback Method |
| cpg | 450.10 | J/molxK | 766.83 | Joback Method |
| cpg | 459.75 | J/molxK | 801.42 | Joback Method |
| cpg | 468.76 | J/molxK | 836.02 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U407821&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 |
| mccvol: | 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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<https://www.chemeo.com/cid/91-128-9/Benzamide-3-chloro-2-fluoro-N-butyl.pdf>

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