

Benzamide, 4-(trifluoromethyl)-N-methyl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C9H8F3NO/c1-13-8(14)6-2-4-7(5-3-6)9(10,11)12/h2-5H,1H3,(H,13,14) |
| InchiKey: | PETVNYBGUYXLNT-UHFFFAOYSA-N |
| Formula: | C9H8F3NO |
| SMILES: | CNC(=O)c1ccc(C(F)(F)F)cc1 |
| Mol. weight [g/mol]: | 203.16 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -493.44 | kJ/mol | Joback Method |
| hf | -660.22 | kJ/mol | Joback Method |
| hfus | 21.24 | kJ/mol | Joback Method |
| hvap | 48.00 | kJ/mol | Joback Method |
| log10ws | -2.92 | | Crippen Method |
| logp | 2.065 | | Crippen Method |
| mcvol | 130.770 | ml/mol | McGowan Method |
| pc | 3065.95 | kPa | Joback Method |
| rinpol | 1418.00 | | NIST Webbook |
| rinpol | 1418.00 | | NIST Webbook |
| tb | 535.60 | K | Joback Method |
| tc | 736.62 | K | Joback Method |
| tf | 336.91 | K | Joback Method |
| vc | 0.515 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 306.42 | J/molxK | 535.60 | Joback Method |
| cpg | 318.10 | J/molxK | 569.10 | Joback Method |
| cpg | 328.97 | J/molxK | 602.61 | Joback Method |
| cpg | 339.06 | J/molxK | 636.11 | Joback Method |
| cpg | 348.43 | J/molxK | 669.61 | Joback Method |
| cpg | 357.11 | J/molxK | 703.12 | Joback Method |
| cpg | 365.14 | J/molxK | 736.62 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U407293&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

Legend

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|------------------|---|
| 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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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