

Methyl 2-(N-trifluoroacetylamino)benzoate

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|-----------------------------|---|
| Inchi: | InChI=1S/C10H8F3NO3/c1-17-8(15)6-4-2-3-5-7(6)14-9(16)10(11,12)13/h2-5H,1H3,(H,14) |
| InchiKey: | UDEDHDBRSUZQD-UHFFFAOYSA-N |
| Formula: | C10H8F3NO3 |
| SMILES: | COC(=O)c1ccccc1NC(=O)C(F)(F)F |
| Mol. weight [g/mol]: | 247.17 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -718.94 | kJ/mol | Joback Method |
| hf | -925.66 | kJ/mol | Joback Method |
| hfus | 26.62 | kJ/mol | Joback Method |
| hvap | 59.38 | kJ/mol | Joback Method |
| log10ws | -2.58 | | Crippen Method |
| logp | 1.974 | | Crippen Method |
| mvol | 152.300 | ml/mol | McGowan Method |
| pc | 2902.98 | kPa | Joback Method |
| rinpol | 1416.00 | | NIST Webbook |
| rinpol | 1416.00 | | NIST Webbook |
| tb | 634.77 | K | Joback Method |
| tc | 838.61 | K | Joback Method |
| tf | 420.34 | K | Joback Method |
| vc | 0.596 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 390.09 | J/molxK | 634.77 | Joback Method |
| cpg | 400.83 | J/molxK | 668.74 | Joback Method |
| cpg | 410.79 | J/molxK | 702.72 | Joback Method |
| cpg | 420.01 | J/molxK | 736.69 | Joback Method |
| cpg | 428.52 | J/molxK | 770.67 | Joback Method |
| cpg | 436.34 | J/molxK | 804.64 | Joback Method |
| cpg | 443.53 | J/molxK | 838.61 | 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=U374368&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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 |
| rlnol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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