

«beta»-Alanine, N-(4-trifluoromethylbenzoyl)-, pentyl ester

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| Inchi: | InChI=1S/C16H20F3NO3/c1-2-3-4-11-23-14(21)9-10-20-15(22)12-5-7-13(8-6-12)16(17,1 |
| InchiKey: | LJHPPHUARPLNDP-UHFFFAOYSA-N |
| Formula: | C16H20F3NO3 |
| SMILES: | CCCCCOC(=O)CCNC(=O)c1ccc(C(F)(F)F)cc1 |
| Mol. weight [g/mol]: | 331.33 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -668.42 | kJ/mol | Joback Method |
| hf | -1049.50 | kJ/mol | Joback Method |
| hfus | 42.16 | kJ/mol | Joback Method |
| hvap | 72.74 | kJ/mol | Joback Method |
| log10ws | -4.71 | | Crippen Method |
| logp | 3.559 | | Crippen Method |
| mcvol | 236.840 | ml/mol | McGowan Method |
| pc | 1690.72 | kPa | Joback Method |
| rinpol | 2115.00 | | NIST Webbook |
| rinpol | 2115.00 | | NIST Webbook |
| tb | 772.05 | K | Joback Method |
| tc | 965.59 | K | Joback Method |
| tf | 487.96 | K | Joback Method |
| vc | 0.931 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 701.76 | J/mol×K | 772.05 | Joback Method |
| cpg | 715.27 | J/mol×K | 804.31 | Joback Method |
| cpg | 727.87 | J/mol×K | 836.56 | Joback Method |
| cpg | 739.61 | J/mol×K | 868.82 | Joback Method |
| cpg | 750.53 | J/mol×K | 901.07 | Joback Method |
| cpg | 760.67 | J/mol×K | 933.33 | Joback Method |
| cpg | 770.07 | J/mol×K | 965.59 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U321739&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 |
| 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 |

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