

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

| | |
|----------------------|--|
| Inchi: | InChI=1S/C25H38F3NO3/c1-2-3-4-5-6-7-8-9-10-11-12-13-20-32-23(30)18-19-29-24(31)2 |
| InchiKey: | TURHBTNXJGAGRL-UHFFFAOYSA-N |
| Formula: | C25H38F3NO3 |
| SMILES: | CCCCCCCCCCCCCOC(=O)CCNC(=O)c1ccc(C(F)(F)F)cc1 |
| Mol. weight [g/mol]: | 457.57 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -592.64 | kJ/mol | Joback Method |
| hf | -1235.26 | kJ/mol | Joback Method |
| hfus | 65.47 | kJ/mol | Joback Method |
| hvap | 92.77 | kJ/mol | Joback Method |
| log10ws | -8.48 | | Crippen Method |
| logp | 7.070 | | Crippen Method |
| mvol | 363.650 | ml/mol | McGowan Method |
| pc | 920.50 | kPa | Joback Method |
| rinpol | 3147.00 | | NIST Webbook |
| tb | 977.97 | K | Joback Method |
| tc | 1199.52 | K | Joback Method |
| tf | 589.39 | K | Joback Method |
| vc | 1.435 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1233.38 | J/mol×K | 977.97 | Joback Method |
| cpg | 1250.32 | J/mol×K | 1014.90 | Joback Method |
| cpg | 1265.98 | J/mol×K | 1051.82 | Joback Method |
| cpg | 1280.46 | J/mol×K | 1088.75 | Joback Method |
| cpg | 1293.86 | J/mol×K | 1125.67 | Joback Method |
| cpg | 1306.26 | J/mol×K | 1162.60 | Joback Method |
| cpg | 1317.76 | J/mol×K | 1199.52 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U321747&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 |
| h vap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m cvol: | 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 |

Latest version available from:

<https://www.chemeo.com/cid/21-078-2/beta-Alanine-N-4-trifluoromethylbenzoyl-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-04-24 01:31:29.089221053 +0000 UTC m=+16211538.009798368.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.