

L-Valine, N-(2,4-difluorobenzoyl)-, tetradecyl ester

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| Inchi: | InChI=1S/C26H41F2NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-18-32-26(31)24(20(2)3)29-2 |
| InchiKey: | IZNDGMBMIKAKOH-UHFFFAOYSA-N |
| Formula: | C26H41F2NO3 |
| SMILES: | CCCCCCCCCCCCCOC(=O)C(NC(=O)c1ccc(F)cc1F)C(C)C |
| Mol. weight [g/mol]: | 453.61 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -406.76 | kJ/mol | Joback Method |
| hf | -1073.07 | kJ/mol | Joback Method |
| hfus | 64.96 | kJ/mol | Joback Method |
| hvap | 97.00 | kJ/mol | Joback Method |
| log10ws | -8.75 | | Crippen Method |
| logp | 6.964 | | Crippen Method |
| mvol | 375.970 | ml/mol | McGowan Method |
| pc | 883.14 | kPa | Joback Method |
| rinpol | 2978.00 | | NIST Webbook |
| rinpol | 2978.00 | | NIST Webbook |
| tb | 1008.91 | K | Joback Method |
| tc | 1239.03 | K | Joback Method |
| tf | 580.17 | K | Joback Method |
| vc | 1.472 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1288.96 | J/mol×K | 1008.91 | Joback Method |
| cpg | 1306.15 | J/mol×K | 1047.26 | Joback Method |
| cpg | 1321.79 | J/mol×K | 1085.62 | Joback Method |
| cpg | 1335.93 | J/mol×K | 1123.97 | Joback Method |
| cpg | 1348.67 | J/mol×K | 1162.32 | Joback Method |
| cpg | 1360.07 | J/mol×K | 1200.67 | Joback Method |
| cpg | 1370.21 | J/mol×K | 1239.03 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U346445&Units=SI |

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 |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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