

L-Valine, N-(4-fluorobenzoyl)-, propyl ester

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| Inchi: | InChI=1S/C15H20FNO3/c1-4-9-20-15(19)13(10(2)3)17-14(18)11-5-7-12(16)8-6-11/h5-8, |
| InchiKey: | AINAVOQEIOAFYPN-UHFFFAOYSA-N |
| Formula: | C15H20FNO3 |
| SMILES: | CCCOC(=O)C(NC(=O)c1ccc(F)cc1)C(C)C |
| Mol. weight [g/mol]: | 281.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -294.94 | kJ/mol | Joback Method |
| hf | -638.45 | kJ/mol | Joback Method |
| hfus | 33.78 | kJ/mol | Joback Method |
| hvap | 72.67 | kJ/mol | Joback Method |
| log10ws | -3.81 | | Crippen Method |
| logp | 2.533 | | Crippen Method |
| mvol | 219.210 | ml/mol | McGowan Method |
| pc | 1977.07 | kPa | Joback Method |
| rinpol | 1961.00 | | NIST Webbook |
| rinpol | 1961.00 | | NIST Webbook |
| tb | 752.98 | K | Joback Method |
| tc | 957.68 | K | Joback Method |
| tf | 443.09 | K | Joback Method |
| vc | 0.839 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 630.29 | J/mol×K | 752.98 | Joback Method |
| cpg | 644.65 | J/mol×K | 787.10 | Joback Method |
| cpg | 658.03 | J/mol×K | 821.21 | Joback Method |
| cpg | 670.45 | J/mol×K | 855.33 | Joback Method |
| cpg | 681.96 | J/mol×K | 889.45 | Joback Method |
| cpg | 692.56 | J/mol×K | 923.57 | Joback Method |
| cpg | 702.30 | J/mol×K | 957.68 | 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=U346663&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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 |
| 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 |
| rinpolar: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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