

L-Valine, N-(3-bromobenzoyl)-, undecyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C23H36BrNO3/c1-4-5-6-7-8-9-10-11-12-16-28-23(27)21(18(2)3)25-22(26)19-1 |
| InchiKey: | QNLMGQYEAWHWHQ-UHFFFAOYSA-N |
| Formula: | C23H36BrNO3 |
| SMILES: | CCCCCCCCCOC(=O)C(NC(=O)c1cccc(Br)c1)C(C)C |
| Mol. weight [g/mol]: | 454.44 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -18.45 | kJ/mol | Joback Method |
| hf | -581.13 | kJ/mol | Joback Method |
| hfus | 56.70 | kJ/mol | Joback Method |
| hvap | 97.73 | kJ/mol | Joback Method |
| log10ws | -7.99 | | Crippen Method |
| logp | 6.277 | | Crippen Method |
| mcvol | 347.660 | ml/mol | McGowan Method |
| pc | 1186.60 | kPa | Joback Method |
| tb | 1002.91 | K | Joback Method |
| tc | 1228.53 | K | Joback Method |
| tf | 592.46 | K | Joback Method |
| vc | 1.331 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1129.15 | J/molxK | 1002.91 | Joback Method |
| cpg | 1144.18 | J/molxK | 1040.51 | Joback Method |
| cpg | 1157.98 | J/molxK | 1078.12 | Joback Method |
| cpg | 1170.60 | J/molxK | 1115.72 | Joback Method |
| cpg | 1182.13 | J/molxK | 1153.32 | Joback Method |
| cpg | 1192.65 | J/molxK | 1190.93 | Joback Method |
| cpg | 1202.21 | J/molxK | 1228.53 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U346693&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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