

DL-Valine, N-methyl-N-(but-3-en-1-yloxy-carbonyl)-, pentadecyl ester

InChI: InChI=1S/C26H49NO4/c1-6-8-10-11-12-13-14-15-16-17-18-19-20-22-30-25(28)24(23(3))
InChIKey: ZZIPTHAWGQRJTL-UHFFFAOYSA-N

Formula: C₂₆H₄₉NO₄

SMILES: C=CCCOC(=O)N(C)C(C(=O)OCCCCCCCCCCCCCCC)C(C)C

Mol. weight [g/mol]: 439.67

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -106.06 | kJ/mol | Joback Method |
| hf | -887.17 | kJ/mol | Joback Method |
| hfus | 63.37 | kJ/mol | Joback Method |
| hvap | 92.38 | kJ/mol | Joback Method |
| log10ws | -7.70 | | Crippen Method |
| logp | 7.290 | | Crippen Method |
| mvol | 397.760 | ml/mol | McGowan Method |
| pc | 786.39 | kPa | Joback Method |
| rinpol | 2859.00 | | NIST Webbook |
| rinpol | 2859.00 | | NIST Webbook |
| tb | 955.10 | K | Joback Method |
| tc | 1174.45 | K | Joback Method |
| tf | 527.81 | K | Joback Method |
| vc | 1.526 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1361.12 | J/mol×K | 955.10 | Joback Method |
| cpg | 1381.83 | J/mol×K | 991.66 | Joback Method |
| cpg | 1400.92 | J/mol×K | 1028.22 | Joback Method |
| cpg | 1418.46 | J/mol×K | 1064.78 | Joback Method |
| cpg | 1434.50 | J/mol×K | 1101.33 | Joback Method |
| cpg | 1449.13 | J/mol×K | 1137.89 | Joback Method |
| cpg | 1462.40 | J/mol×K | 1174.45 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=U392967&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 |
| 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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