

L-Leucine, N-methyl-N-((1R)-(-)-menthyloxycarbonyl)-, nonyl ester

InChI: InChI=1S/C27H51NO4/c1-8-9-10-11-12-13-14-17-31-26(29)24(18-20(2)3)28(7)27(30)32

InChIKey: CWBDQVQQTFHMFV-UHFFFAOYSA-N

Formula: C27H51NO4

SMILES: CCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OC1CC(C)CCC1C(C)C

Mol. weight [g/mol]: 453.70

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -178.89 | kJ/mol | Joback Method |
| hf | -1024.88 | kJ/mol | Joback Method |
| hfus | 57.69 | kJ/mol | Joback Method |
| hvap | 94.70 | kJ/mol | Joback Method |
| log10ws | -7.55 | | Crippen Method |
| logp | 7.224 | | Crippen Method |
| mcvol | 405.290 | ml/mol | McGowan Method |
| pc | 790.37 | kPa | Joback Method |
| rinpol | 2760.00 | | NIST Webbook |
| rinpol | 2760.00 | | NIST Webbook |
| tb | 991.07 | K | Joback Method |
| tc | 1214.56 | K | Joback Method |
| tf | 524.74 | K | Joback Method |
| vc | 1.526 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1460.33 | J/mol×K | 991.07 | Joback Method |
| cpg | 1480.49 | J/mol×K | 1028.32 | Joback Method |
| cpg | 1498.57 | J/mol×K | 1065.57 | Joback Method |
| cpg | 1514.62 | J/mol×K | 1102.82 | Joback Method |
| cpg | 1528.70 | J/mol×K | 1140.07 | Joback Method |
| cpg | 1540.86 | J/mol×K | 1177.31 | Joback Method |
| cpg | 1551.16 | J/mol×K | 1214.56 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392416&Units=SI |
| 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 |

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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