

L-Leucine, N-methyl-N-(2-ethylhexyloxycarbonyl)-, 2-ethylhexylester

InChI: InChI=1S/C24H47NO4/c1-8-12-14-20(10-3)17-28-23(26)22(16-19(5)6)25(7)24(27)29-18-1
InChIKey: GUQMKWFYHFXPES-UHFFFAOYSA-N

Formula: C24H47NO4

SMILES: CCCCC(CC)COC(=O)C(CC(C)C)N(C)C(=O)OCC(CC)CCCC

Mol. weight [g/mol]: 413.63

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -215.62 | kJ/mol | Joback Method |
| hf | -981.88 | kJ/mol | Joback Method |
| hfus | 52.42 | kJ/mol | Joback Method |
| hvap | 87.82 | kJ/mol | Joback Method |
| log10ws | -6.53 | | Crippen Method |
| logp | 6.446 | | Crippen Method |
| mcvol | 373.880 | ml/mol | McGowan Method |
| pc | 865.05 | kPa | Joback Method |
| rinpol | 2344.00 | | NIST Webbook |
| rinpol | 2344.00 | | NIST Webbook |
| tb | 911.78 | K | Joback Method |
| tc | 1116.63 | K | Joback Method |
| tf | 477.03 | K | Joback Method |
| vc | 1.421 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1263.83 | J/mol×K | 911.78 | Joback Method |
| cpg | 1283.92 | J/mol×K | 945.92 | Joback Method |
| cpg | 1302.53 | J/mol×K | 980.06 | Joback Method |
| cpg | 1319.71 | J/mol×K | 1014.21 | Joback Method |
| cpg | 1335.51 | J/mol×K | 1048.35 | Joback Method |
| cpg | 1349.97 | J/mol×K | 1082.49 | Joback Method |
| cpg | 1363.13 | J/mol×K | 1116.63 | 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=U392397&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |

Latest version available from:

<https://www.chemeo.com/cid/84-191-7/L-Leucine-N-methyl-N-2-ethylhexyloxycarbonyl-2-ethylhexyl-ester.pdf>

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