

L-Leucine, N-methyl-N-(hexyloxycarbonyl)-, hexadecyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C30H59NO4/c1-6-8-10-12-13-14-15-16-17-18-19-20-21-23-24-34-29(32)28(26 |
| InchiKey: | RXROVURRSRBFDY-MUUNZHRXSA-N |
| Formula: | C30H59NO4 |
| SMILES: | CCCCCCCCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCCCCC |
| Mol. weight [g/mol]: | 497.79 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -160.22 | kJ/mol | Joback Method |
| hf | -1095.16 | kJ/mol | Joback Method |
| hfus | 75.00 | kJ/mol | Joback Method |
| hvap | 101.95 | kJ/mol | Joback Method |
| log10ws | -9.52 | | Crippen Method |
| logp | 9.074 | | Crippen Method |
| mcvol | 458.420 | ml/mol | McGowan Method |
| pc | 627.51 | kPa | Joback Method |
| rinpol | 3099.00 | | NIST Webbook |
| rinpol | 3099.00 | | NIST Webbook |
| tb | 1049.94 | K | Joback Method |
| tc | 1319.00 | K | Joback Method |
| tf | 574.65 | K | Joback Method |
| vc | 1.770 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1651.20 | J/molxK | 1049.94 | Joback Method |
| cpg | 1675.29 | J/molxK | 1094.78 | Joback Method |
| cpg | 1696.85 | J/molxK | 1139.63 | Joback Method |
| cpg | 1716.00 | J/molxK | 1184.47 | Joback Method |
| cpg | 1732.89 | J/molxK | 1229.31 | Joback Method |
| cpg | 1747.65 | J/molxK | 1274.16 | Joback Method |
| cpg | 1760.41 | J/molxK | 1319.00 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392354&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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