

L-Leucine, N-methyl-N-(octyloxycarbonyl)-, pentyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C21H41NO4/c1-6-8-10-11-12-14-16-26-21(24)22(5)19(17-18(3)4)20(23)25-15 |
| InchiKey: | FFMMCHGUTRXQBP-LJQANCHMSA-N |
| Formula: | C21H41NO4 |
| SMILES: | CCCCCCCCOC(=O)N(C)C(CC(C)C)C(=O)OCCCCC |
| Mol. weight [g/mol]: | 371.55 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -236.00 | kJ/mol | Joback Method |
| hf | -909.40 | kJ/mol | Joback Method |
| hfus | 51.69 | kJ/mol | Joback Method |
| hvap | 81.92 | kJ/mol | Joback Method |
| log10ws | -5.76 | | Crippen Method |
| logp | 5.563 | | Crippen Method |
| mcvol | 331.610 | ml/mol | McGowan Method |
| pc | 1022.04 | kPa | Joback Method |
| rinpola | 3009.00 | | NIST Webbook |
| rinpola | 3009.00 | | NIST Webbook |
| tb | 844.02 | K | Joback Method |
| tc | 1034.17 | K | Joback Method |
| tf | 473.22 | K | Joback Method |
| vc | 1.266 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1074.95 | J/molxK | 844.02 | Joback Method |
| cpg | 1093.87 | J/molxK | 875.71 | Joback Method |
| cpg | 1111.61 | J/molxK | 907.40 | Joback Method |
| cpg | 1128.18 | J/molxK | 939.09 | Joback Method |
| cpg | 1143.62 | J/molxK | 970.78 | Joback Method |
| cpg | 1157.96 | J/molxK | 1002.48 | Joback Method |
| cpg | 1171.23 | J/molxK | 1034.17 | 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=U392360&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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