

# I-Leucine, N-neopentylloxycarbonyl-N-methyl-, nonyl ester

|                             |  |
|-----------------------------|--|
| <b>Inchi:</b>               | InChI=1S/C22H43NO4/c1-8-9-10-11-12-13-14-15-26-20(24)19(16-18(2)3)23(7)21(25)27- |
| <b>InchiKey:</b>            | IPVIRECPSRVDAJ-UHFFFAOYSA-N  |
| <b>Formula:</b>             | C22H43NO4  |
| <b>SMILES:</b>              | CCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(C)(C)C                                      |
| <b>Mol. weight [g/mol]:</b> | 385.58   |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -224.74 | kJ/mol  | Joback Method  |
| hf            | -938.79 | kJ/mol  | Joback Method  |
| hfus          | 46.87   | kJ/mol  | Joback Method  |
| hvap          | 82.85   | kJ/mol  | Joback Method  |
| log10ws       | -5.93   |         | Crippen Method |
| logp          | 5.809   |         | Crippen Method |
| mcvol         | 345.700 | ml/mol  | McGowan Method |
| pc            | 973.52  | kPa     | Joback Method  |
| rinpol        | 2286.00 |         | NIST Webbook   |
| tb            | 863.67  | K       | Joback Method  |
| tc            | 1058.45 | K       | Joback Method  |
| tf            | 486.91  | K       | Joback Method  |
| vc            | 1.310   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1137.44 | J/molxK | 863.67          | Joback Method |
| cpg           | 1156.61 | J/molxK | 896.13          | Joback Method |
| cpg           | 1174.56 | J/molxK | 928.60          | Joback Method |
| cpg           | 1191.32 | J/molxK | 961.06          | Joback Method |
| cpg           | 1206.95 | J/molxK | 993.52          | Joback Method |
| cpg           | 1221.50 | J/molxK | 1025.99         | Joback Method |
| cpg           | 1235.01 | J/molxK | 1058.45         | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321913&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321913&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |

# Legend

|                 |   |
|-----------------|---|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpola:</b> | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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