

# L-Norvaline, N-isobutoxycarbonyl-, octadecyl ester

|                             |   |
|-----------------------------|---|
| <b>Inchi:</b>               | InChI=1S/C28H55NO4/c1-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-23-32-27(30)2 |
| <b>InchiKey:</b>            | HIYSYWYNYUODIU-UHFFFAOYSA-N   |
| <b>Formula:</b>             | C28H55NO4   |
| <b>SMILES:</b>              | CCCCCCCCCCCCCCCCCOC(=O)C(CCC)NC(=O)OCC(C)C                                      |
| <b>Mol. weight [g/mol]:</b> | 469.74  |

## Physical Properties

| Property code | Value    | Unit    | Source         |
|---------------|----------|---------|----------------|
| gf            | -198.45  | kJ/mol  | Joback Method  |
| hf            | -1067.94 | kJ/mol  | Joback Method  |
| hfus          | 71.90    | kJ/mol  | Joback Method  |
| hvap          | 101.89   | kJ/mol  | Joback Method  |
| log10ws       | -9.31    |         | Crippen Method |
| logp          | 8.342    |         | Crippen Method |
| mcvol         | 430.240  | ml/mol  | McGowan Method |
| pc            | 698.02   | kPa     | Joback Method  |
| tb            | 1041.91  | K       | Joback Method  |
| tc            | 1299.98  | K       | Joback Method  |
| tf            | 572.30   | K       | Joback Method  |
| vc            | 1.675    | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1540.46 | J/molxK | 1041.91         | Joback Method |
| cpg           | 1562.26 | J/molxK | 1084.92         | Joback Method |
| cpg           | 1581.72 | J/molxK | 1127.93         | Joback Method |
| cpg           | 1598.94 | J/molxK | 1170.95         | Joback Method |
| cpg           | 1614.02 | J/molxK | 1213.96         | Joback Method |
| cpg           | 1627.06 | J/molxK | 1256.97         | Joback Method |
| cpg           | 1638.14 | J/molxK | 1299.98         | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <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>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U320726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320726&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>                                 |

# 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>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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