

# DL-Valine, N-methyl-N-decyloxycarbonyl-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C32H63NO4/c1-6-8-10-12-14-16-17-18-19-20-22-23-25-27-36-31(34)30(29(3)
<b>InchiKey:</b>	CGLVEMA EYJUCCX-UHFFFAOYSA-N
<b>Formula:</b>	C32H63NO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(C(C)C)N(C)C(=O)OCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	525.85

## Physical Properties

Property code	Value	Unit	Source
gf	-143.38	kJ/mol	Joback Method
hf	-1136.44	kJ/mol	Joback Method
hfus	80.19	kJ/mol	Joback Method
hvap	106.41	kJ/mol	Joback Method
log10ws	-10.36		Crippen Method
logp	9.854		Crippen Method
mvol	486.600	ml/mol	McGowan Method
pc	571.24	kPa	Joback Method
rinpol	3431.00		NIST Webbook
rinpol	3431.00		NIST Webbook
tb	1095.70	K	Joback Method
tc	1398.14	K	Joback Method
tf	597.19	K	Joback Method
vc	1.881	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1782.81	J/molxK	1095.70	Joback Method
cpg	1808.62	J/molxK	1146.11	Joback Method
cpg	1831.28	J/molxK	1196.51	Joback Method
cpg	1851.00	J/molxK	1246.92	Joback Method
cpg	1868.01	J/molxK	1297.33	Joback Method
cpg	1882.51	J/molxK	1347.74	Joback Method
cpg	1894.71	J/molxK	1398.14	Joback Method

# Sources

<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=U392932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392932&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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