

# DL-Valine, N-methyl-N-(vinylloxycarbonyl)-, octadecyl ester

<b>Inchi:</b>	InChI=1S/C27H51NO4/c1-6-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-32-26(29)
<b>InchiKey:</b>	LLHCMBZSFWRQGE-UHFFFAOYSA-N
<b>Formula:</b>	C27H51NO4
<b>SMILES:</b>	C=COC(=O)N(C)C(C(=O)OCCCCCCCCCCCCCCCCCC)C(C)C
<b>Mol. weight [g/mol]:</b>	453.70

## Physical Properties

Property code	Value	Unit	Source
gf	-97.64	kJ/mol	Joback Method
hf	-907.81	kJ/mol	Joback Method
hfus	65.96	kJ/mol	Joback Method
hvap	94.61	kJ/mol	Joback Method
log10ws	-8.62		Crippen Method
logp	8.028		Crippen Method
mvol	411.850	ml/mol	McGowan Method
pc	745.70	kPa	Joback Method
rinpol	2972.00		NIST Webbook
rinpol	2972.00		NIST Webbook
tb	977.98	K	Joback Method
tc	1206.47	K	Joback Method
tf	539.08	K	Joback Method
vc	1.583	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1425.37	J/molxK	977.98	Joback Method
cpg	1446.69	J/molxK	1016.06	Joback Method
cpg	1466.24	J/molxK	1054.14	Joback Method
cpg	1484.10	J/molxK	1092.23	Joback Method
cpg	1500.36	J/molxK	1130.31	Joback Method
cpg	1515.09	J/molxK	1168.39	Joback Method
cpg	1528.38	J/molxK	1206.47	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393049&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>hvp:</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>rinp:</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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