

# DL-Valine, N-methyl-N-(2-ethylhexyloxycarbonyl)-, heptadecyl ester

InChI: InChI=1S/C32H63NO4/c1-7-10-12-13-14-15-16-17-18-19-20-21-22-23-24-26-36-31(34)3  
InChIKey: GWGXOWNBIKSINP-UHFFFAOYSA-N

Formula: C32H63NO4

SMILES: CCCCCCCCCCCCCCCCCOC(=O)C(C(C)C)N(C)C(=O)OCC(CC)CCCC

Mol. weight [g/mol]: 525.85

## Physical Properties

Property code	Value	Unit	Source
gf	-145.82	kJ/mol	Joback Method
hf	-1141.72	kJ/mol	Joback Method
hfus	76.66	kJ/mol	Joback Method
hvap	106.02	kJ/mol	Joback Method
log10ws	-10.12		Crippen Method
logp	9.710		Crippen Method
mvol	486.600	ml/mol	McGowan Method
pc	573.43	kPa	Joback Method
rinpol	3332.00		NIST Webbook
rinpol	3332.00		NIST Webbook
tb	1095.26	K	Joback Method
tc	1392.95	K	Joback Method
tf	582.19	K	Joback Method
vc	1.875	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1782.88	J/molxK	1095.26	Joback Method
cpg	1808.18	J/molxK	1144.88	Joback Method
cpg	1830.40	J/molxK	1194.49	Joback Method
cpg	1849.74	J/molxK	1244.11	Joback Method
cpg	1866.42	J/molxK	1293.72	Joback Method
cpg	1880.62	J/molxK	1343.34	Joback Method
cpg	1892.56	J/molxK	1392.95	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=U392921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392921&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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