

# DL-Valyl-DL-valine, N-methyl-N-octyloxycarbonyl-, octyl ester

**Inchi:** InChI=1S/C29H56N2O5/c1-9-11-13-15-17-19-21-35-28(33)26(24(5)6)30(7)27(32)25(23)34  
**InchiKey:** GMVUOSTWEVTAAD-UHFFFAOYSA-N  
**Formula:** C29H56N2O5  
**SMILES:** CCCCCCCCOC(=O)C(C(C)C)N(C)C(=O)C(C(C)C)N(C)C(=O)OCCCCCCCC  
**Mol. weight [g/mol]:** 512.77

## Physical Properties

Property code	Value	Unit	Source
gf	-191.66	kJ/mol	Joback Method
hf	-1130.13	kJ/mol	Joback Method
hfus	69.99	kJ/mol	Joback Method
hvap	107.74	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	6.827		Crippen Method
mcvol	455.880	ml/mol	McGowan Method
pc	685.65	kPa	Joback Method
rinsol	3089.00		NIST Webbook
tb	1092.49	K	Joback Method
tc	1371.32	K	Joback Method
tf	615.78	K	Joback Method
vc	1.726	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1647.65	J/molxK	1092.49	Joback Method
cpg	1668.59	J/molxK	1138.96	Joback Method
cpg	1686.98	J/molxK	1185.43	Joback Method
cpg	1702.98	J/molxK	1231.90	Joback Method
cpg	1716.74	J/molxK	1278.38	Joback Method
cpg	1728.44	J/molxK	1324.85	Joback Method
cpg	1738.24	J/molxK	1371.32	Joback Method

# Sources

<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.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=U392911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392911&amp;Units=SI</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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