

# DL-Valine, N-methyl-N-(3-chloropropoxycarbonyl)-, hexadecyl ester

InChI: InChI=1S/C26H50ClNO4/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-31-25(29)24(23(22)21)19-20  
InChIKey: LKGYUQNLHXSBIM-UHFFFAOYSA-N

Formula: C26H50ClNO4

SMILES: CCCCCCCCCCCCCCCCOC(=O)C(C(C)C)N(C)C(=O)OCCCCI

Mol. weight [g/mol]: 476.13

## Physical Properties

Property code	Value	Unit	Source
gf	-205.83	kJ/mol	Joback Method
hf	-1028.34	kJ/mol	Joback Method
hfus	68.84	kJ/mol	Joback Method
hvap	97.43	kJ/mol	Joback Method
log10ws	-8.00		Crippen Method
logp	7.733		Crippen Method
mcvol	414.300	ml/mol	McGowan Method
pc	752.67	kPa	Joback Method
rinpol	3121.00		NIST Webbook
rinpol	3121.00		NIST Webbook
tb	995.85	K	Joback Method
tc	1229.80	K	Joback Method
tf	559.49	K	Joback Method
vc	1.595	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1420.85	J/molxK	995.85	Joback Method
cpg	1441.19	J/molxK	1034.84	Joback Method
cpg	1459.71	J/molxK	1073.83	Joback Method
cpg	1476.48	J/molxK	1112.82	Joback Method
cpg	1491.57	J/molxK	1151.82	Joback Method
cpg	1505.07	J/molxK	1190.81	Joback Method
cpg	1517.05	J/molxK	1229.80	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=U392986&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392986&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>

# 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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