

# DL-Alanine, N-methyl-N-(3-chloro-2-methylpropoxycarbonyl)-, dodecyl ester

InChI: InChI=1S/C21H40ClNO4/c1-5-6-7-8-9-10-11-12-13-14-15-26-20(24)19(3)23(4)21(25)27-28  
InChIKey: SGTAFXXYGUTWDM-UHFFFAOYSA-N

Formula: C21H40ClNO4

SMILES: CCCCCCCCCCCCOC(=O)C(C)N(C)C(=O)OCC(C)CCI

Mol. weight [g/mol]: 406.00

## Physical Properties

Property code	Value	Unit	Source
gf	-247.93	kJ/mol	Joback Method
hf	-925.14	kJ/mol	Joback Method
hfus	55.89	kJ/mol	Joback Method
hvap	86.30	kJ/mol	Joback Method
log10ws	-5.91		Crippen Method
logp	5.782		Crippen Method
mcvol	343.850	ml/mol	McGowan Method
pc	998.28	kPa	Joback Method
rinpol	2500.00		NIST Webbook
rinpol	2500.00		NIST Webbook
tb	881.45	K	Joback Method
tc	1079.29	K	Joback Method
tf	503.14	K	Joback Method
vc	1.315	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1106.35	J/molxK	881.45	Joback Method
cpg	1124.29	J/molxK	914.42	Joback Method
cpg	1140.99	J/molxK	947.40	Joback Method
cpg	1156.49	J/molxK	980.37	Joback Method
cpg	1170.81	J/molxK	1013.34	Joback Method
cpg	1184.00	J/molxK	1046.32	Joback Method
cpg	1196.08	J/molxK	1079.29	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=U392774&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392774&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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