

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

InChI: InChI=1S/C22H42ClNO4/c1-5-6-7-8-9-10-11-12-13-14-15-16-27-21(25)20(3)24(4)22(26)  
InChIKey: SPQHCTDLMGRZOX-UHFFFAOYSA-N

Formula: C22H42ClNO4

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

Mol. weight [g/mol]: 420.03

## Physical Properties

Property code	Value	Unit	Source
gf	-239.51	kJ/mol	Joback Method
hf	-945.78	kJ/mol	Joback Method
hfus	58.48	kJ/mol	Joback Method
hvap	88.53	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	6.172		Crippen Method
mvol	357.940	ml/mol	McGowan Method
pc	940.37	kPa	Joback Method
rinpol	2599.00		NIST Webbook
rinpol	2599.00		NIST Webbook
tb	904.33	K	Joback Method
tc	1107.25	K	Joback Method
tf	514.41	K	Joback Method
vc	1.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1168.25	J/mol×K	904.33	Joback Method
cpg	1186.59	J/mol×K	938.15	Joback Method
cpg	1203.61	J/mol×K	971.97	Joback Method
cpg	1219.35	J/mol×K	1005.79	Joback Method
cpg	1233.83	J/mol×K	1039.61	Joback Method
cpg	1247.11	J/mol×K	1073.43	Joback Method
cpg	1259.22	J/mol×K	1107.25	Joback Method

# Sources

<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=U392775&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392775&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvap:</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>rinpola:</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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