

# DL-Alanine, N-methyl-N-decyloxycarbonyl-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C30H59NO4/c1-5-7-9-11-13-15-16-17-18-19-21-22-24-26-34-29(32)28(3)31(4)
<b>InchiKey:</b>	CHHZCWVJTSURLT-UHFFFAOYSA-N
<b>Formula:</b>	C30H59NO4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)C(C)N(C)C(=O)OCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	497.79

## Physical Properties

Property code	Value	Unit	Source
gf	-157.78	kJ/mol	Joback Method
hf	-1089.88	kJ/mol	Joback Method
hfus	78.53	kJ/mol	Joback Method
hvap	102.34	kJ/mol	Joback Method
log10ws	-9.77		Crippen Method
logp	9.218		Crippen Method
mvol	458.420	ml/mol	McGowan Method
pc	625.00	kPa	Joback Method
rinpol	3254.00		NIST Webbook
rinpol	3254.00		NIST Webbook
tb	1050.38	K	Joback Method
tc	1323.14	K	Joback Method
tf	589.65	K	Joback Method
vc	1.776	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1651.02	J/molxK	1050.38	Joback Method
cpg	1675.53	J/molxK	1095.84	Joback Method
cpg	1697.44	J/molxK	1141.30	Joback Method
cpg	1716.92	J/molxK	1186.76	Joback Method
cpg	1734.09	J/molxK	1232.22	Joback Method
cpg	1749.11	J/molxK	1277.68	Joback Method
cpg	1762.11	J/molxK	1323.14	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=U392685&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392685&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>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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