

# DL-Alanine, N-methyl-N-(but-4-en-1-yloxy-carbonyl)-, dodecyl ester

InChI: InChI=1S/C21H39NO4/c1-5-7-9-10-11-12-13-14-15-16-18-25-20(23)19(3)22(4)21(24)26-2  
InChIKey: LVRUYSBHTNCPOE-UHFFFAOYSA-N

Formula: C21H39NO4

SMILES: C=CCCOC(=O)N(C)C(C)C(=O)OCCCCCCCCCCCC

Mol. weight [g/mol]: 369.54

## Physical Properties

Property code	Value	Unit	Source
gf	-145.72	kJ/mol	Joback Method
hf	-778.69	kJ/mol	Joback Method
hfus	53.94	kJ/mol	Joback Method
hvap	81.64	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.484		Crippen Method
mvol	327.310	ml/mol	McGowan Method
pc	1044.62	kPa	Joback Method
rinpol	2394.00		NIST Webbook
rinpol	2394.00		NIST Webbook
tb	841.14	K	Joback Method
tc	1030.74	K	Joback Method
tf	486.46	K	Joback Method
vc	1.252	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1046.76	J/molxK	841.14	Joback Method
cpg	1065.10	J/molxK	872.74	Joback Method
cpg	1082.30	J/molxK	904.34	Joback Method
cpg	1098.41	J/molxK	935.94	Joback Method
cpg	1113.46	J/molxK	967.54	Joback Method
cpg	1127.47	J/molxK	999.14	Joback Method
cpg	1140.47	J/molxK	1030.74	Joback Method

# Sources

<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=U392737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392737&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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

Latest version available from:

<https://www.cheméo.com/cid/94-610-0/DL-Alanine-N-methyl-N-but-4-en-1-yloxycarbonyl-dodecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 06:00:41.396586699 +0000 UTC m=+16486890.317164015.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.