

# DL-Alanine, N-methyl-N-(but-2-yn-1-yloxy carbonyl)-, 2-methylhex-3-yl ester

InChI: InChI=1S/C16H27NO4/c1-7-9-11-20-16(19)17(6)13(5)15(18)21-14(10-8-2)12(3)4/h12-14

InChIKey: RIIMPLQMBBFMSY-UHFFFAOYSA-N

Formula: C16H27NO4

SMILES: CC#CCOC(=O)N(C)C(C)C(=O)OC(CCC)C(C)C

Mol. weight [g/mol]: 297.39

## Physical Properties

Property code	Value	Unit	Source
gf	-77.74	kJ/mol	Joback Method
hf	-539.18	kJ/mol	Joback Method
hfus	38.34	kJ/mol	Joback Method
hvap	72.55	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.834		Crippen Method
mcvol	252.560	ml/mol	McGowan Method
pc	1625.91	kPa	Joback Method
rinpol	1895.00		NIST Webbook
rinpol	1895.00		NIST Webbook
tb	738.18	K	Joback Method
tc	933.55	K	Joback Method
tf	507.97	K	Joback Method
vc	0.942	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.47	J/molxK	738.18	Joback Method
cpg	747.25	J/molxK	770.74	Joback Method
cpg	763.05	J/molxK	803.30	Joback Method
cpg	777.87	J/molxK	835.86	Joback Method
cpg	791.75	J/molxK	868.43	Joback Method
cpg	804.67	J/molxK	900.99	Joback Method
cpg	816.68	J/molxK	933.55	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=U392718&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392718&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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