

# DL-Valine, N-methyl-N-(but-3-en-1-yloxycarbonyl)-, but-3-en-1-yl ester

InChI: InChI=1S/C15H25NO4/c1-6-8-10-19-14(17)13(12(3)4)16(5)15(18)20-11-9-7-2/h6-7,12-13  
InChIKey: AYHDDZISXLTWAD-UHFFFAOYSA-N

Formula: C15H25NO4  
SMILES: C=CCCOC(=O)C(C(C)C)N(C)C(=O)OCC=C  
Mol. weight [g/mol]: 283.36

## Physical Properties

Property code	Value	Unit	Source
gf	-110.84	kJ/mol	Joback Method
hf	-534.70	kJ/mol	Joback Method
hfus	33.59	kJ/mol	Joback Method
hvap	67.22	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.775		Crippen Method
mvol	238.470	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1782.00		NIST Webbook
rinpol	1782.00		NIST Webbook
tb	700.10	K	Joback Method
tc	883.75	K	Joback Method
tf	402.08	K	Joback Method
vc	0.891	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	670.69	J/molxK	700.10	Joback Method
cpg	686.43	J/molxK	730.71	Joback Method
cpg	701.31	J/molxK	761.32	Joback Method
cpg	715.37	J/molxK	791.93	Joback Method
cpg	728.61	J/molxK	822.54	Joback Method
cpg	741.05	J/molxK	853.15	Joback Method
cpg	752.72	J/molxK	883.75	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.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>
<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=U392971&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392971&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>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

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