

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

InChI: InChI=1S/C21H36N2O5/c1-9-11-13-27-20(25)18(16(5)6)22(7)19(24)17(15(3)4)23(8)21(2)1-2  
InChIKey: YGQCTRYPHPMJDM-UHFFFAOYSA-N

Formula: C<sub>21</sub>H<sub>36</sub>N<sub>2</sub>O<sub>5</sub>

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

Mol. weight [g/mol]: 396.52

## Physical Properties

Property code	Value	Unit	Source
gf	-83.34	kJ/mol	Joback Method
hf	-714.15	kJ/mol	Joback Method
hfus	46.71	kJ/mol	Joback Method
hvap	88.59	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.258		Crippen Method
mvol	334.560	ml/mol	McGowan Method
pc	1135.96	kPa	Joback Method
rinpol	2330.00		NIST Webbook
rinpol	2330.00		NIST Webbook
tb	902.81	K	Joback Method
tc	1106.27	K	Joback Method
tf	522.10	K	Joback Method
vc	1.240	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.23	J/molxK	902.81	Joback Method
cpg	1100.63	J/molxK	936.72	Joback Method
cpg	1115.80	J/molxK	970.63	Joback Method
cpg	1129.79	J/molxK	1004.54	Joback Method
cpg	1142.65	J/molxK	1038.45	Joback Method
cpg	1154.42	J/molxK	1072.36	Joback Method
cpg	1165.15	J/molxK	1106.27	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=U392972&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392972&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

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