

# DL-Valyl-DL-Valine, N,N'-dimethyl-N'-(but-3-yn-1-yloxycarbonyl)-, hexyl ester

InChI: InChI=1S/C23H40N2O5/c1-9-11-13-14-16-29-22(27)20(18(5)6)24(7)21(26)19(17(3)4)25  
InChIKey: YTQSTSRETRALLX-UHFFFAOYSA-N

Formula: C23H40N2O5

SMILES: C#CCCOC(=O)N(C)C(C(=O)N(C)C(C(=O)OCCCCC)C(C)C)C(C)C

Mol. weight [g/mol]: 424.57

## Physical Properties

Property code	Value	Unit	Source
gf	-19.11	kJ/mol	Joback Method
hf	-714.39	kJ/mol	Joback Method
hfus	57.42	kJ/mol	Joback Method
hvap	94.24	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	3.709		Crippen Method
mcvol	362.740	ml/mol	McGowan Method
pc	1043.95	kPa	Joback Method
rinpol	2518.00		NIST Webbook
rinpol	2518.00		NIST Webbook
tb	945.33	K	Joback Method
tc	1157.35	K	Joback Method
tf	595.13	K	Joback Method
vc	1.351	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1204.80	J/molxK	945.33	Joback Method
cpg	1221.79	J/molxK	980.67	Joback Method
cpg	1237.42	J/molxK	1016.00	Joback Method
cpg	1251.75	J/molxK	1051.34	Joback Method
cpg	1264.83	J/molxK	1086.68	Joback Method
cpg	1276.72	J/molxK	1122.01	Joback Method
cpg	1287.48	J/molxK	1157.35	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=U392947&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392947&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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