

# DL-Valine, N-methyl-N-(but-2-yn-1-yloxy-carbonyl)-, pentadecyl ester

InChI: InChI=1S/C26H47NO4/c1-6-8-10-11-12-13-14-15-16-17-18-19-20-22-30-25(28)24(23(3))  
InChIKey: HOTXVBFHEXJUNH-UHFFFAOYSA-N

Formula: C26H47NO4

SMILES: CC#CCOC(=O)N(C)C(C(=O)OCCCCCCCCCCCCCCC)C(C)C

Mol. weight [g/mol]: 437.66

## Physical Properties

Property code	Value	Unit	Source
gf	8.90	kJ/mol	Joback Method
hf	-740.30	kJ/mol	Joback Method
hfus	67.77	kJ/mol	Joback Method
hvap	95.20	kJ/mol	Joback Method
log10ws	-7.64		Crippen Method
logp	6.737		Crippen Method
mvol	393.460	ml/mol	McGowan Method
pc	841.13	kPa	Joback Method
rinpol	2937.00		NIST Webbook
rinpol	2937.00		NIST Webbook
tb	967.42	K	Joback Method
tc	1186.15	K	Joback Method
tf	635.67	K	Joback Method
vc	1.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1336.16	J/molxK	967.42	Joback Method
cpg	1355.72	J/molxK	1003.88	Joback Method
cpg	1373.68	J/molxK	1040.33	Joback Method
cpg	1390.11	J/molxK	1076.79	Joback Method
cpg	1405.06	J/molxK	1113.24	Joback Method
cpg	1418.57	J/molxK	1149.70	Joback Method
cpg	1430.72	J/molxK	1186.15	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=U392960&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392960&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<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>

# 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>hvap:</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>rinpola:</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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