

# DL-Valine, N-methyl-N-(but-2-yn-1-yloxycarbonyl)-, octyl

Inchi:  
ester

InChI=1S/C19H33NO4/c1-6-8-10-11-12-13-15-23-18(21)17(16(3)4)20(5)19(22)24-14-9-7

InchiKey:

LNQBFLFLZMCGRW-UHFFFAOYSA-N

Formula:

C19H33NO4

SMILES:

CC#CCOC(=O)N(C)C(C(=O)OCCCCCCCC)C(C)C

Mol. weight [g/mol]:

339.47

## Physical Properties

Property code	Value	Unit	Source
gf	-50.04	kJ/mol	Joback Method
hf	-595.82	kJ/mol	Joback Method
hfus	49.64	kJ/mol	Joback Method
hvap	79.62	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.006		Crippen Method
mvol	294.830	ml/mol	McGowan Method
pc	1297.66	kPa	Joback Method
rinpol	2238.00		NIST Webbook
rinpol	2238.00		NIST Webbook
tb	807.26	K	Joback Method
tc	999.95	K	Joback Method
tf	556.78	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	903.92	J/molxK	807.26	Joback Method
cpg	921.30	J/molxK	839.38	Joback Method
cpg	937.61	J/molxK	871.49	Joback Method
cpg	952.87	J/molxK	903.61	Joback Method
cpg	967.11	J/molxK	935.72	Joback Method
cpg	980.33	J/molxK	967.84	Joback Method
cpg	992.56	J/molxK	999.95	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=U392953&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392953&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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/97-668-4/DL-Valine-N-methyl-N-but-2-yn-1-yloxycarbonyl-octyl-ester.pdf>

Generated by Cheméo on 2024-04-23 12:47:28.184322146 +0000 UTC m=+16165697.104899473.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.