

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

Inchi:  
ester

InChI=1S/C21H37NO4/c1-6-8-10-11-12-13-14-15-17-25-20(23)19(18(3)4)22(5)21(24)26

InchiKey:

GFQPBIDQJSVXFD-UHFFFAOYSA-N

Formula:

C21H37NO4

SMILES:

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

Mol. weight [g/mol]:

367.52

## Physical Properties

Property code	Value	Unit	Source
gf	-33.20	kJ/mol	Joback Method
hf	-637.10	kJ/mol	Joback Method
hfus	54.82	kJ/mol	Joback Method
hvap	84.07	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	4.787		Crippen Method
mcvol	323.010	ml/mol	McGowan Method
pc	1135.20	kPa	Joback Method
rinpol	2437.00		NIST Webbook
rinpol	2437.00		NIST Webbook
tb	853.02	K	Joback Method
tc	1048.91	K	Joback Method
tf	579.32	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1024.22	J/mol×K	853.02	Joback Method
cpg	1042.13	J/mol×K	885.67	Joback Method
cpg	1058.86	J/mol×K	918.32	Joback Method
cpg	1074.45	J/mol×K	950.97	Joback Method
cpg	1088.91	J/mol×K	983.62	Joback Method
cpg	1102.29	J/mol×K	1016.26	Joback Method
cpg	1114.59	J/mol×K	1048.91	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=U392955&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392955&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>

# 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>hvp:</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>rinp:</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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