

# DL-Valine, N-methyl-N-(2-ethylhexyloxycarbonyl)-, 2-ethylhexylester

InChI: InChI=1S/C23H45NO4/c1-8-12-14-19(10-3)16-27-22(25)21(18(5)6)24(7)23(26)28-17-20  
InChIKey: HAPMECDFNLCJQM-UHFFFAOYSA-N

Formula: C23H45NO4

SMILES: CCCCC(CC)COC(=O)C(C(C)C)N(C)C(=O)OCC(CC)CCCC

Mol. weight [g/mol]: 399.61

## Physical Properties

Property code	Value	Unit	Source
gf	-224.04	kJ/mol	Joback Method
hf	-961.24	kJ/mol	Joback Method
hfus	49.83	kJ/mol	Joback Method
hvap	85.59	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	6.055		Crippen Method
mvol	359.790	ml/mol	McGowan Method
pc	916.05	kPa	Joback Method
rinpol	2329.00		NIST Webbook
rinpol	2329.00		NIST Webbook
tb	888.90	K	Joback Method
tc	1088.27	K	Joback Method
tf	465.76	K	Joback Method
vc	1.365	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1200.62	J/mol×K	888.90	Joback Method
cpg	1220.31	J/mol×K	922.13	Joback Method
cpg	1238.63	J/mol×K	955.36	Joback Method
cpg	1255.61	J/mol×K	988.59	Joback Method
cpg	1271.29	J/mol×K	1021.82	Joback Method
cpg	1285.71	J/mol×K	1055.04	Joback Method
cpg	1298.90	J/mol×K	1088.27	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=U392923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392923&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>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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