

# L-Valine, N-(2-methoxybenzoyl)-, ethyl ester

<b>Inchi:</b>	InChI=1S/C15H21NO4/c1-5-20-15(18)13(10(2)3)16-14(17)11-8-6-7-9-12(11)19-4/h6-10,1
<b>InchiKey:</b>	YGCONZODUDQROP-UHFFFAOYSA-N
<b>Formula:</b>	C15H21NO4
<b>SMILES:</b>	CCOC(=O)C(NC(=O)c1ccccc1OC)C(C)C
<b>Mol. weight [g/mol]:</b>	279.33

## Physical Properties

Property code	Value	Unit	Source
gf	-205.13	kJ/mol	Joback Method
hf	-574.56	kJ/mol	Joback Method
hfus	31.89	kJ/mol	Joback Method
hvap	75.89	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.013		Crippen Method
mvol	223.310	ml/mol	McGowan Method
pc	2027.23	kPa	Joback Method
rinpol	2128.00		NIST Webbook
rinpol	2128.00		NIST Webbook
tb	776.13	K	Joback Method
tc	986.73	K	Joback Method
tf	464.73	K	Joback Method
vc	0.839	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.86	J/molxK	776.13	Joback Method
cpg	664.39	J/molxK	811.23	Joback Method
cpg	677.86	J/molxK	846.33	Joback Method
cpg	690.27	J/molxK	881.43	Joback Method
cpg	701.65	J/molxK	916.53	Joback Method
cpg	712.01	J/molxK	951.63	Joback Method
cpg	721.36	J/molxK	986.73	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346588&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346588&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvpap:</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>rinppl:</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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