

# L-Valine, N-(4-methylbenzoyl)-, hexyl ester

<b>Inchi:</b>	InChI=1S/C19H29NO3/c1-5-6-7-8-13-23-19(22)17(14(2)3)20-18(21)16-11-9-15(4)10-12-
<b>InchiKey:</b>	VIRZBRHFVKCYDD-UHFFFAOYSA-N
<b>Formula:</b>	C19H29NO3
<b>SMILES:</b>	CCCCCOC(=O)C(NC(=O)c1ccc(C)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	319.44

## Physical Properties

Property code	Value	Unit	Source
gf	-66.45	kJ/mol	Joback Method
hf	-524.90	kJ/mol	Joback Method
hfus	41.06	kJ/mol	Joback Method
hvap	82.39	kJ/mol	Joback Method
log10ws	-5.21		Crippen Method
logp	3.873		Crippen Method
mcvol	273.800	ml/mol	McGowan Method
pc	1493.04	kPa	Joback Method
rinpola	2405.00		NIST Webbook
rinpola	2405.00		NIST Webbook
tb	845.23	K	Joback Method
tc	1051.86	K	Joback Method
tf	487.58	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.00	J/molxK	845.23	Joback Method
cpg	865.83	J/molxK	879.67	Joback Method
cpg	880.54	J/molxK	914.11	Joback Method
cpg	894.14	J/molxK	948.54	Joback Method
cpg	906.68	J/molxK	982.98	Joback Method
cpg	918.19	J/molxK	1017.42	Joback Method
cpg	928.72	J/molxK	1051.86	Joback Method

# Sources

<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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U346643&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346643&amp;Units=SI</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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