

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

Inchi:	InChI=1S/C28H47NO3/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-22-32-28(31)26(23(2)3)29
InchiKey:	KLUPCNQWDQTPWK-UHFFFAOYSA-N
Formula:	C28H47NO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1ccc(C)cc1)C(C)C
Mol. weight [g/mol]:	445.68

## Physical Properties

Property code	Value	Unit	Source
gf	9.33	kJ/mol	Joback Method
hf	-710.66	kJ/mol	Joback Method
hfus	64.37	kJ/mol	Joback Method
hvap	102.42	kJ/mol	Joback Method
log10ws	-8.98		Crippen Method
logp	7.384		Crippen Method
mvol	400.610	ml/mol	McGowan Method
pc	839.19	kPa	Joback Method
rinpol	3341.00		NIST Webbook
rinpol	3341.00		NIST Webbook
tb	1051.15	K	Joback Method
tc	1291.69	K	Joback Method
tf	589.01	K	Joback Method
vc	1.548	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1402.49	J/molxK	1051.15	Joback Method
cpg	1420.58	J/molxK	1091.24	Joback Method
cpg	1437.00	J/molxK	1131.33	Joback Method
cpg	1451.84	J/molxK	1171.42	Joback Method
cpg	1465.20	J/molxK	1211.51	Joback Method
cpg	1477.19	J/molxK	1251.60	Joback Method
cpg	1487.90	J/molxK	1291.69	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346647&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346647&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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