

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

Inchi:	InChI=1S/C27H44FNO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-21-32-27(31)25(22(2)3)29
InchiKey:	LEBDECNEEBYPME-UHFFFAOYSA-N
Formula:	C27H44FNO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1ccc(F)cc1)C(C)C
Mol. weight [g/mol]:	449.64

## Physical Properties

Property code	Value	Unit	Source
gf	-193.90	kJ/mol	Joback Method
hf	-886.13	kJ/mol	Joback Method
hfus	64.86	kJ/mol	Joback Method
hvap	99.38	kJ/mol	Joback Method
log10ws	-8.83		Crippen Method
logp	7.215		Crippen Method
mvol	388.290	ml/mol	McGowan Method
pc	864.54	kPa	Joback Method
rinpol	3153.00		NIST Webbook
rinpol	3153.00		NIST Webbook
tb	1027.54	K	Joback Method
tc	1262.18	K	Joback Method
tf	578.33	K	Joback Method
vc	1.510	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1345.79	J/molxK	1027.54	Joback Method
cpg	1363.51	J/molxK	1066.65	Joback Method
cpg	1379.64	J/molxK	1105.75	Joback Method
cpg	1394.26	J/molxK	1144.86	Joback Method
cpg	1407.46	J/molxK	1183.96	Joback Method
cpg	1419.33	J/molxK	1223.07	Joback Method
cpg	1429.97	J/molxK	1262.18	Joback Method

# Sources

<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=U346674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346674&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>
<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>

# 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>h vap:</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>r in pol:</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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