

# L-Valine, N-(3-chloro-2-fluorobenzoyl)-, hexadecyl ester

<b>Inchi:</b>	InChI=1S/C28H45ClFNO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21-34-28(33)26(22(2
<b>InchiKey:</b>	QQBWPQXGUITAQF-UHFFFAOYSA-N
<b>Formula:</b>	C28H45ClFNO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1cccc(Cl)c1F)C(C)C
<b>Mol. weight [g/mol]:</b>	498.11

## Physical Properties

Property code	Value	Unit	Source
gf	-207.04	kJ/mol	Joback Method
hf	-933.98	kJ/mol	Joback Method
hfus	71.26	kJ/mol	Joback Method
hvap	106.65	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.258		Crippen Method
mvol	414.620	ml/mol	McGowan Method
pc	793.94	kPa	Joback Method
rinpol	3451.00		NIST Webbook
rinpol	3451.00		NIST Webbook
tb	1092.83	K	Joback Method
tc	1350.59	K	Joback Method
tf	632.04	K	Joback Method
vc	1.615	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1432.50	J/molxK	1092.83	Joback Method
cpg	1449.45	J/molxK	1135.79	Joback Method
cpg	1464.58	J/molxK	1178.75	Joback Method
cpg	1478.02	J/molxK	1221.71	Joback Method
cpg	1489.88	J/molxK	1264.67	Joback Method
cpg	1500.28	J/molxK	1307.63	Joback Method
cpg	1509.34	J/molxK	1350.59	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=U346548&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346548&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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