

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

<b>Inchi:</b>	InChI=1S/C16H22FNO3/c1-4-5-10-21-16(20)14(11(2)3)18-15(19)12-6-8-13(17)9-7-12/h6
<b>InchiKey:</b>	PUYJVTRCPJHKLL-UHFFFAOYSA-N
<b>Formula:</b>	C16H22FNO3
<b>SMILES:</b>	CCCCOC(=O)C(NC(=O)c1ccc(F)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	295.35

## Physical Properties

Property code	Value	Unit	Source
gf	-286.52	kJ/mol	Joback Method
hf	-659.09	kJ/mol	Joback Method
hfus	36.37	kJ/mol	Joback Method
hvap	74.89	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	2.923		Crippen Method
mcvol	233.300	ml/mol	McGowan Method
pc	1818.50	kPa	Joback Method
rinpol	2051.00		NIST Webbook
rinpol	2051.00		NIST Webbook
tb	775.86	K	Joback Method
tc	979.00	K	Joback Method
tf	454.36	K	Joback Method
vc	0.894	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.64	J/molxK	775.86	Joback Method
cpg	700.29	J/molxK	809.72	Joback Method
cpg	713.94	J/molxK	843.57	Joback Method
cpg	726.61	J/molxK	877.43	Joback Method
cpg	738.34	J/molxK	911.29	Joback Method
cpg	749.15	J/molxK	945.14	Joback Method
cpg	759.07	J/molxK	979.00	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346664&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346664&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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