

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

<b>Inchi:</b>	InChI=1S/C20H30FNO3/c1-4-5-6-7-8-9-14-25-20(24)18(15(2)3)22-19(23)16-10-12-17(21)
<b>InchiKey:</b>	OAQJXTOVVWZRMA-UHFFFAOYSA-N
<b>Formula:</b>	C20H30FNO3
<b>SMILES:</b>	CCCCCCCCOC(=O)C(NC(=O)c1ccc(F)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	351.46

## Physical Properties

Property code	Value	Unit	Source
gf	-252.84	kJ/mol	Joback Method
hf	-741.65	kJ/mol	Joback Method
hfus	46.73	kJ/mol	Joback Method
hvap	83.80	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	4.484		Crippen Method
mvol	289.660	ml/mol	McGowan Method
pc	1342.74	kPa	Joback Method
rinpol	2442.00		NIST Webbook
rinpol	2442.00		NIST Webbook
tb	867.38	K	Joback Method
tc	1070.37	K	Joback Method
tf	499.44	K	Joback Method
vc	1.119	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.27	J/mol×K	867.38	Joback Method
cpg	931.88	J/mol×K	901.21	Joback Method
cpg	946.37	J/mol×K	935.04	Joback Method
cpg	959.76	J/mol×K	968.87	Joback Method
cpg	972.11	J/mol×K	1002.70	Joback Method
cpg	983.44	J/mol×K	1036.54	Joback Method
cpg	993.81	J/mol×K	1070.37	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=U346668&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346668&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>

# 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>hvap:</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>rinpola:</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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