

# L-Valine, N-(3-methoxy-2,4,5-trifluorobenzoyl)-, isohexyl ester

InChI: InChI=1S/C19H26F3NO4/c1-10(2)7-6-8-27-19(25)16(11(3)4)23-18(24)12-9-13(20)15(22)17  
InChIKey: UUMBDYADFQOBQI-UHFFFAOYSA-N

Formula: C19H26F3NO4

SMILES: COc1c(F)c(F)cc(C(=O)NC(C(=O)OCCCC(C)C)C(C)C)c1F

Mol. weight [g/mol]: 389.41

## Physical Properties

Property code	Value	Unit	Source
gf	-787.21	kJ/mol	Joback Method
hf	-1285.14	kJ/mol	Joback Method
hfus	46.79	kJ/mol	Joback Method
hvap	83.95	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	3.846		Crippen Method
mvol	284.980	ml/mol	McGowan Method
pc	1296.73	kPa	Joback Method
rinpol	2302.00		NIST Webbook
rinpol	2302.00		NIST Webbook
tb	879.96	K	Joback Method
tc	1081.18	K	Joback Method
tf	534.14	K	Joback Method
vc	1.111	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.60	J/molxK	879.96	Joback Method
cpg	912.67	J/molxK	913.50	Joback Method
cpg	925.57	J/molxK	947.03	Joback Method
cpg	937.33	J/molxK	980.57	Joback Method
cpg	947.95	J/molxK	1014.11	Joback Method
cpg	957.44	J/molxK	1047.64	Joback Method
cpg	965.81	J/molxK	1081.18	Joback Method

# Sources

<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=U346433&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346433&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>

# 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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