

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

InChI: InChI=1S/C30H48F3NO4/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-38-30(36)27(37)1  
InChIKey: QTZHQVKVSKZRQG-UHFFFAOYSA-N

Formula: C30H48F3NO4

SMILES: CCCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1cc(F)c(F)c(OC)c1F)C(C)C

Mol. weight [g/mol]: 543.70

## Physical Properties

Property code	Value	Unit	Source
gf	-692.15	kJ/mol	Joback Method
hf	-1506.90	kJ/mol	Joback Method
hfus	78.81	kJ/mol	Joback Method
hvap	108.82	kJ/mol	Joback Method
log10ws	-10.45		Crippen Method
logp	8.281		Crippen Method
mvol	439.970	ml/mol	McGowan Method
pc	677.82	kPa	Joback Method
rinpol	3473.00		NIST Webbook
rinpol	3473.00		NIST Webbook
tb	1132.08	K	Joback Method
tc	1431.53	K	Joback Method
tf	673.11	K	Joback Method
vc	1.732	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1572.23	J/molxK	1132.08	Joback Method
cpg	1589.60	J/molxK	1181.99	Joback Method
cpg	1603.93	J/molxK	1231.90	Joback Method
cpg	1615.33	J/molxK	1281.80	Joback Method
cpg	1623.94	J/molxK	1331.71	Joback Method
cpg	1629.88	J/molxK	1381.62	Joback Method
cpg	1633.28	J/molxK	1431.53	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346441&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346441&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>hvpap:</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>rinppl:</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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