

# L-Valine, N-(2,5-ditrifluoromethylbenzoyl)-, heptadecyl ester

<b>Inchi:</b>	InChI=1S/C31H47F6NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-41-29(40)27(2
<b>InchiKey:</b>	LASHZNQDFNMKKY-UHFFFAOYSA-N
<b>Formula:</b>	C31H47F6NO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F)C(C)C
<b>Mol. weight [g/mol]:</b>	595.70

## Physical Properties

Property code	Value	Unit	Source
gf	-1138.22	kJ/mol	Joback Method
hf	-1978.21	kJ/mol	Joback Method
hfus	75.40	kJ/mol	Joback Method
hvap	102.27	kJ/mol	Joback Method
log10ws	-11.55		Crippen Method
logp	9.893		Crippen Method
mcvol	453.500	ml/mol	McGowan Method
pc	629.08	kPa	Joback Method
rinpol	3163.00		NIST Webbook
rinpol	3163.00		NIST Webbook
tb	1113.93	K	Joback Method
tc	1410.67	K	Joback Method
tf	643.72	K	Joback Method
vc	1.802	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1631.91	J/molxK	1113.93	Joback Method
cpg	1653.51	J/molxK	1163.39	Joback Method
cpg	1673.42	J/molxK	1212.84	Joback Method
cpg	1691.96	J/molxK	1262.30	Joback Method
cpg	1709.46	J/molxK	1311.76	Joback Method
cpg	1726.23	J/molxK	1361.21	Joback Method
cpg	1742.60	J/molxK	1410.67	Joback Method

# Sources

<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.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>
<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=U346581&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346581&amp;Units=SI</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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