

# L-Valine, N-(2-fluoro-5-trifluoromethylbenzoyl)-, pentadecyl ester

InChI: InChI=1S/C28H43F4NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-19-36-27(35)25(21(2)3)3  
InChIKey: LGXYIDCDDRNFNF-UHFFFAOYSA-N

Formula: C28H43F4NO3

SMILES: CCCCCCCCCCCCCCOC(=O)C(NC(=O)c1cc(C(F)(F)F)ccc1F)C(C)C

Mol. weight [g/mol]: 517.64

## Physical Properties

Property code	Value	Unit	Source
gf	-776.70	kJ/mol	Joback Method
hf	-1515.32	kJ/mol	Joback Method
hfus	68.88	kJ/mol	Joback Method
hvap	98.52	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.233		Crippen Method
mvol	407.690	ml/mol	McGowan Method
pc	759.74	kPa	Joback Method
rinpol	3029.00		NIST Webbook
rinpol	3029.00		NIST Webbook
tb	1049.98	K	Joback Method
tc	1300.80	K	Joback Method
tf	606.31	K	Joback Method
vc	1.609	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1427.80	J/molxK	1049.98	Joback Method
cpg	1446.15	J/molxK	1091.78	Joback Method
cpg	1462.88	J/molxK	1133.59	Joback Method
cpg	1478.14	J/molxK	1175.39	Joback Method
cpg	1492.05	J/molxK	1217.19	Joback Method
cpg	1504.78	J/molxK	1258.99	Joback Method
cpg	1516.46	J/molxK	1300.80	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=U346523&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346523&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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