

# L-Valine, N-(2-fluoro-6-trifluoromethylbenzoyl)-, dodecyl ester

InChI: InChI=1S/C25H37F4NO3/c1-4-5-6-7-8-9-10-11-12-13-17-33-24(32)22(18(2)3)30-23(31)2  
InChIKey: PQJUIHUWUMWIJU-UHFFFAOYSA-N

Formula: C25H37F4NO3

SMILES: CCCCCCCCCCOC(=O)C(NC(=O)c1c(F)cccc1C(F)(F)F)C(C)C

Mol. weight [g/mol]: 475.56

## Physical Properties

Property code	Value	Unit	Source
gf	-801.96	kJ/mol	Joback Method
hf	-1453.40	kJ/mol	Joback Method
hfus	61.11	kJ/mol	Joback Method
hvap	91.84	kJ/mol	Joback Method
log10ws	-8.68		Crippen Method
logp	7.063		Crippen Method
mcvol	365.420	ml/mol	McGowan Method
pc	896.41	kPa	Joback Method
rinpol	2829.00		NIST Webbook
rinpol	2829.00		NIST Webbook
tb	981.34	K	Joback Method
tc	1203.96	K	Joback Method
tf	572.50	K	Joback Method
vc	1.442	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1240.24	J/mol×K	981.34	Joback Method
cpg	1256.83	J/mol×K	1018.44	Joback Method
cpg	1272.09	J/mol×K	1055.55	Joback Method
cpg	1286.11	J/mol×K	1092.65	Joback Method
cpg	1298.98	J/mol×K	1129.75	Joback Method
cpg	1310.80	J/mol×K	1166.86	Joback Method
cpg	1321.64	J/mol×K	1203.96	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.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=U346494&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346494&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>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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