

# L-Valine, N-(2,6-difluorobenzoyl)-, tetradecyl ester

Inchi:	InChI=1S/C26H41F2NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-19-32-26(31)24(20(2)3)29-2
InchiKey:	GTWNASFRWBBCGR-UHFFFAOYSA-N
Formula:	C26H41F2NO3
SMILES:	CCCCCCCCCCCCCOC(=O)C(NC(=O)c1c(F)cccc1F)C(C)C
Mol. weight [g/mol]:	453.61

## Physical Properties

Property code	Value	Unit	Source
gf	-406.76	kJ/mol	Joback Method
hf	-1073.07	kJ/mol	Joback Method
hfus	64.96	kJ/mol	Joback Method
hvap	97.00	kJ/mol	Joback Method
log10ws	-8.75		Crippen Method
logp	6.964		Crippen Method
mvol	375.970	ml/mol	McGowan Method
pc	883.14	kPa	Joback Method
rinpol	3107.00		NIST Webbook
rinpol	3107.00		NIST Webbook
tb	1008.91	K	Joback Method
tc	1239.03	K	Joback Method
tf	580.17	K	Joback Method
vc	1.472	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1288.96	J/molxK	1008.91	Joback Method
cpg	1306.15	J/molxK	1047.26	Joback Method
cpg	1321.79	J/molxK	1085.62	Joback Method
cpg	1335.93	J/molxK	1123.97	Joback Method
cpg	1348.67	J/molxK	1162.32	Joback Method
cpg	1360.07	J/molxK	1200.67	Joback Method
cpg	1370.21	J/molxK	1239.03	Joback Method

# Sources

<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=U346624&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346624&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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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