

# L-Valine, N-(2,4-difluorobenzoyl)-, undecyl ester

<b>Inchi:</b>	InChI=1S/C23H35F2NO3/c1-4-5-6-7-8-9-10-11-12-15-29-23(28)21(17(2)3)26-22(27)19-1
<b>InchiKey:</b>	OJCJIMMDSXCLFA-UHFFFAOYSA-N
<b>Formula:</b>	C23H35F2NO3
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(NC(=O)c1ccc(F)cc1F)C(C)C
<b>Mol. weight [g/mol]:</b>	411.53

## Physical Properties

Property code	Value	Unit	Source
gf	-432.02	kJ/mol	Joback Method
hf	-1011.15	kJ/mol	Joback Method
hfus	57.19	kJ/mol	Joback Method
hvap	90.32	kJ/mol	Joback Method
log10ws	-7.49		Crippen Method
logp	5.793		Crippen Method
mvol	333.700	ml/mol	McGowan Method
pc	1056.20	kPa	Joback Method
rinpol	2671.00		NIST Webbook
rinpol	2671.00		NIST Webbook
tb	940.27	K	Joback Method
tc	1151.21	K	Joback Method
tf	546.36	K	Joback Method
vc	1.304	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1103.41	J/molxK	940.27	Joback Method
cpg	1119.49	J/molxK	975.43	Joback Method
cpg	1134.28	J/molxK	1010.58	Joback Method
cpg	1147.84	J/molxK	1045.74	Joback Method
cpg	1160.21	J/molxK	1080.90	Joback Method
cpg	1171.44	J/molxK	1116.05	Joback Method
cpg	1181.57	J/molxK	1151.21	Joback Method

# Sources

<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=U346443&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346443&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>

# 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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