

L-Valine, N-(2,6-difluorobenzoyl)-, undecyl ester

Inchi:	InChI=1S/C23H35F2NO3/c1-4-5-6-7-8-9-10-11-12-16-29-23(28)21(17(2)3)26-22(27)20-1
InchiKey:	QOCJBZJHIYMUCR-UHFFFAOYSA-N
Formula:	C23H35F2NO3
SMILES:	CCCCCCCCCOC(=O)C(NC(=O)c1c(F)cccc1F)C(C)C
Mol. weight [g/mol]:	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	2780.00		NIST Webbook
rinpol	2780.00		NIST Webbook
tb	940.27	K	Joback Method
tc	1151.21	K	Joback Method
tf	546.36	K	Joback Method
vc	1.304	m ³ /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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U346622&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvpap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinppl:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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