

I-Leucine, n-pentafluoropropionyl-, pentyl ester

Inchi:	InChI=1S/C14H22F5NO3/c1-4-5-6-7-23-11(21)10(8-9(2)3)20-12(22)13(15,16)14(17,18)1
InchiKey:	QBUUMJZHKUBNJW-UHFFFAOYSA-N
Formula:	C14H22F5NO3
SMILES:	CCCCCOC(=O)C(CC(C)C)NC(=O)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	347.32

Physical Properties

Property code	Value	Unit	Source
gf	-1179.70	kJ/mol	Joback Method
hf	-1644.81	kJ/mol	Joback Method
hfus	35.03	kJ/mol	Joback Method
hvap	61.64	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	3.448		Crippen Method
mcvol	235.960	ml/mol	McGowan Method
pc	1466.85	kPa	Joback Method
rinpol	1456.00		NIST Webbook
rinpol	1456.00		NIST Webbook
tb	689.06	K	Joback Method
tc	859.18	K	Joback Method
tf	400.08	K	Joback Method
vc	0.941	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	697.22	J/molxK	689.06	Joback Method
cpg	711.39	J/molxK	717.41	Joback Method
cpg	724.76	J/molxK	745.77	Joback Method
cpg	737.35	J/molxK	774.12	Joback Method
cpg	749.21	J/molxK	802.47	Joback Method
cpg	760.36	J/molxK	830.83	Joback Method
cpg	770.86	J/molxK	859.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321009&Units=SI
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

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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