

I-Leucine, N-neopentylloxycarbonyl-N-methyl-, heptyl ester

Inchi:	InChI=1S/C20H39NO4/c1-8-9-10-11-12-13-24-18(22)17(14-16(2)3)21(7)19(23)25-15-20
InchiKey:	MHFYZIPNTHADMH-UHFFFAOYSA-N
Formula:	C20H39NO4
SMILES:	CCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(C)(C)C
Mol. weight [g/mol]:	357.53

Physical Properties

Property code	Value	Unit	Source
gf	-241.58	kJ/mol	Joback Method
hf	-897.51	kJ/mol	Joback Method
hfus	41.69	kJ/mol	Joback Method
hvap	78.40	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	5.029		Crippen Method
mvol	317.520	ml/mol	McGowan Method
pc	1101.54	kPa	Joback Method
rinpol	2097.00		NIST Webbook
rinpol	2097.00		NIST Webbook
tb	817.91	K	Joback Method
tc	1006.82	K	Joback Method
tf	464.37	K	Joback Method
vc	1.198	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1014.41	J/molxK	817.91	Joback Method
cpg	1032.95	J/molxK	849.39	Joback Method
cpg	1050.36	J/molxK	880.88	Joback Method
cpg	1066.69	J/molxK	912.36	Joback Method
cpg	1081.98	J/molxK	943.85	Joback Method
cpg	1096.25	J/molxK	975.33	Joback Method
cpg	1109.56	J/molxK	1006.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321911&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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