

L-Leucine, N-methyl-N-(hexyloxycarbonyl)-, heptyl ester

Inchi:	InChI=1S/C21H41NO4/c1-6-8-10-12-14-15-25-20(23)19(17-18(3)4)22(5)21(24)26-16-13
InchiKey:	RQMXIVKVXMQBSG-LJQANCHMSA-N
Formula:	C21H41NO4
SMILES:	CCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCCCCC
Mol. weight [g/mol]:	371.55

Physical Properties

Property code	Value	Unit	Source
gf	-236.00	kJ/mol	Joback Method
hf	-909.40	kJ/mol	Joback Method
hfus	51.69	kJ/mol	Joback Method
hvap	81.92	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	5.563		Crippen Method
mvol	331.610	ml/mol	McGowan Method
pc	1022.04	kPa	Joback Method
rinpol	2236.00		NIST Webbook
rinpol	2236.00		NIST Webbook
tb	844.02	K	Joback Method
tc	1034.17	K	Joback Method
tf	473.22	K	Joback Method
vc	1.266	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1074.95	J/molxK	844.02	Joback Method
cpg	1093.87	J/molxK	875.71	Joback Method
cpg	1111.61	J/molxK	907.40	Joback Method
cpg	1128.18	J/molxK	939.09	Joback Method
cpg	1143.62	J/molxK	970.78	Joback Method
cpg	1157.96	J/molxK	1002.48	Joback Method
cpg	1171.23	J/molxK	1034.17	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=U392348&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
hvap:	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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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