

L-Leucine, N-methyl-N-(2-ethylhexyloxycarbonyl)- tetradecyl ester

InChI: CCCCCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(CC)CCCC
InChIKey: YFFGBVPKZYMQEK-UHFFFAOYSA-N
Formula: C₃₀H₅₉NO₄
SMILES: CCCCCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(CC)CCCC
Mol. weight [g/mol]: 497.79

Physical Properties

Property code	Value	Unit	Source
gf	-162.66	kJ/mol	Joback Method
hf	-1100.44	kJ/mol	Joback Method
hfus	71.48	kJ/mol	Joback Method
hvap	101.56	kJ/mol	Joback Method
log10ws	-9.28		Crippen Method
logp	8.930		Crippen Method
mcvol	458.420	ml/mol	McGowan Method
pc	630.03	kPa	Joback Method
rinpol	3000.00		NIST Webbook
rinpol	3000.00		NIST Webbook
tb	1049.50	K	Joback Method
tc	1315.06	K	Joback Method
tf	559.65	K	Joback Method
vc	1.764	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1651.38	J/molxK	1049.50	Joback Method
cpg	1675.08	J/molxK	1093.76	Joback Method
cpg	1696.29	J/molxK	1138.02	Joback Method
cpg	1715.14	J/molxK	1182.28	Joback Method
cpg	1731.75	J/molxK	1226.54	Joback Method
cpg	1746.26	J/molxK	1270.80	Joback Method
cpg	1758.80	J/molxK	1315.06	Joback Method

Sources

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=U392396&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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