

# L-Leucine, N-methyl-N-((1R)-(-)-menthyloxycarbonyl)-, hexadecyl ester

InChI: InChI=1S/C34H65NO4/c1-8-9-10-11-12-13-14-15-16-17-18-19-20-21-24-38-33(36)31(25)23  
InChIKey: XIXIMFKUFHODYOL-UHFFFAOYSA-N

Formula: C34H65NO4

SMILES: CCCCCCCCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OC1CC(C)CCC1C(C)C

Mol. weight [g/mol]: 551.88

## Physical Properties

Property code	Value	Unit	Source
gf	-119.95	kJ/mol	Joback Method
hf	-1169.36	kJ/mol	Joback Method
hfus	75.82	kJ/mol	Joback Method
hvap	110.28	kJ/mol	Joback Method
log10ws	-10.48		Crippen Method
logp	9.955		Crippen Method
mvol	503.920	ml/mol	McGowan Method
pc	559.15	kPa	Joback Method
rinpol	3463.00		NIST Webbook
rinpol	3463.00		NIST Webbook
tb	1151.23	K	Joback Method
tc	1455.56	K	Joback Method
tf	603.63	K	Joback Method
vc	1.919	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1914.16	J/molxK	1151.23	Joback Method
cpg	1935.32	J/molxK	1201.95	Joback Method
cpg	1952.68	J/molxK	1252.67	Joback Method
cpg	1966.43	J/molxK	1303.40	Joback Method
cpg	1976.77	J/molxK	1354.12	Joback Method
cpg	1983.90	J/molxK	1404.84	Joback Method
cpg	1988.02	J/molxK	1455.56	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392423&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392423&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

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

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