

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

InChI:InChI=1S/C23H43NO4/c1-8-9-10-13-27-22(25)20(14-16(2)3)24(7)23(26)28-21-15-18(6)1

InChIKey:JNLSXTWDVXEFGW-UHFFFAOYSA-N

Formula:C23H43NO4

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

Mol. weight [g/mol]:397.59

## Physical Properties

Property code	Value	Unit	Source
gf	-212.57	kJ/mol	Joback Method
hf	-942.32	kJ/mol	Joback Method
hfus	47.33	kJ/mol	Joback Method
hvap	85.79	kJ/mol	Joback Method
log10ws	-5.87		Crippen Method
logp	5.664		Crippen Method
mcvol	348.930	ml/mol	McGowan Method
pc	993.25	kPa	Joback Method
rinpol	2368.00		NIST Webbook
rinpol	2368.00		NIST Webbook
tb	899.55	K	Joback Method
tc	1104.29	K	Joback Method
tf	479.66	K	Joback Method
vc	1.302	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1204.89	J/molxK	899.55	Joback Method
cpg	1224.88	J/molxK	933.67	Joback Method
cpg	1243.20	J/molxK	967.80	Joback Method
cpg	1259.89	J/molxK	1001.92	Joback Method
cpg	1274.98	J/molxK	1036.04	Joback Method
cpg	1288.50	J/molxK	1070.17	Joback Method
cpg	1300.47	J/molxK	1104.29	Joback Method

# Sources

<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=U392412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392412&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hvap:</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>rinpola:</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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