

# I-Leucine, N-isobutoxycarbonyl-N-methyl-, pentyl ester

<b>Inchi:</b>	InChI=1S/C17H33NO4/c1-7-8-9-10-21-16(19)15(11-13(2)3)18(6)17(20)22-12-14(4)5/h13
<b>InchiKey:</b>	OZJQDLALJWAQKT-UHFFFAOYSA-N
<b>Formula:</b>	C17H33NO4
<b>SMILES:</b>	CCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	315.45

## Physical Properties

Property code	Value	Unit	Source
gf	-272.12	kJ/mol	Joback Method
hf	-832.12	kJ/mol	Joback Method
hfus	37.81	kJ/mol	Joback Method
hvap	72.63	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	3.859		Crippen Method
mcvol	275.250	ml/mol	McGowan Method
pc	1335.88	kPa	Joback Method
rinpola	1873.00		NIST Webbook
rinpola	1873.00		NIST Webbook
tb	752.06	K	Joback Method
tc	934.27	K	Joback Method
tf	413.14	K	Joback Method
vc	1.036	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	834.50	J/molxK	752.06	Joback Method
cpg	852.16	J/molxK	782.43	Joback Method
cpg	868.84	J/molxK	812.80	Joback Method
cpg	884.56	J/molxK	843.17	Joback Method
cpg	899.33	J/molxK	873.53	Joback Method
cpg	913.18	J/molxK	903.90	Joback Method
cpg	926.11	J/molxK	934.27	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<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=U321870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321870&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvp:</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>rinp:</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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