

# I-Leucine, N-methyl-n-propoxycarbonyl-, isobutyl ester

<b>Inchi:</b>	InChI=1S/C15H29NO4/c1-7-8-19-15(18)16(6)13(9-11(2)3)14(17)20-10-12(4)5/h11-13H,7
<b>InchiKey:</b>	MXZBTLRUPDJJBU-UHFFFAOYSA-N
<b>Formula:</b>	C15H29NO4
<b>SMILES:</b>	CCCOC(=O)N(C)C(CC(C)C)C(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	287.40

## Physical Properties

Property code	Value	Unit	Source
gf	-288.96	kJ/mol	Joback Method
hf	-790.84	kJ/mol	Joback Method
hfus	32.63	kJ/mol	Joback Method
hvap	68.17	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	3.079		Crippen Method
mcvol	247.070	ml/mol	McGowan Method
pc	1545.13	kPa	Joback Method
rinpol	1694.00		NIST Webbook
rinpol	1694.00		NIST Webbook
tb	706.30	K	Joback Method
tc	888.08	K	Joback Method
tf	390.60	K	Joback Method
vc	0.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	719.52	J/mol×K	706.30	Joback Method
cpg	736.51	J/mol×K	736.60	Joback Method
cpg	752.61	J/mol×K	766.89	Joback Method
cpg	767.83	J/mol×K	797.19	Joback Method
cpg	782.17	J/mol×K	827.48	Joback Method
cpg	795.66	J/mol×K	857.78	Joback Method
cpg	808.30	J/mol×K	888.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321854&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321854&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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