

# I-Leucine, N-pivaloyl-, methyl ester

<b>Inchi:</b>	InChI=1S/C12H23NO3/c1-8(2)7-9(10(14)16-6)13-11(15)12(3,4)5/h8-9H,7H2,1-6H3,(H,13)
<b>InchiKey:</b>	MCDZFMUYBNTHSQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H23NO3
<b>SMILES:</b>	COC(=O)C(CC(C)C)NC(=O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	229.32

## Physical Properties

Property code	Value	Unit	Source
gf	-225.33	kJ/mol	Joback Method
hf	-614.23	kJ/mol	Joback Method
hfus	21.86	kJ/mol	Joback Method
hvap	62.57	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.736		Crippen Method
mcvol	198.930	ml/mol	McGowan Method
pc	2041.91	kPa	Joback Method
rinpola	1405.00		NIST Webbook
tb	650.18	K	Joback Method
tc	844.80	K	Joback Method
tf	372.17	K	Joback Method
vc	0.750	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	547.88	J/molxK	650.18	Joback Method
cpg	563.53	J/molxK	682.62	Joback Method
cpg	578.29	J/molxK	715.05	Joback Method
cpg	592.20	J/molxK	747.49	Joback Method
cpg	605.28	J/molxK	779.92	Joback Method
cpg	617.56	J/molxK	812.36	Joback Method
cpg	629.07	J/molxK	844.80	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=U299744&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299744&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>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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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