

# I-Leucine, N-allyloxycarbonyl-N-methyl-, undecyl ester

<b>Inchi:</b>	InChI=1S/C22H41NO4/c1-6-8-9-10-11-12-13-14-15-17-26-21(24)20(18-19(3)4)23(5)22(2
<b>InchiKey:</b>	MXQJQFSFIONWLJ-UHFFFAOYSA-N
<b>Formula:</b>	C22H41NO4
<b>SMILES:</b>	C=CCOC(=O)N(C)C(CC(C)C)C(=O)OCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	383.57

## Physical Properties

Property code	Value	Unit	Source
gf	-139.74	kJ/mol	Joback Method
hf	-804.61	kJ/mol	Joback Method
hfus	53.01	kJ/mol	Joback Method
hvap	83.47	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.730		Crippen Method
mcvol	341.400	ml/mol	McGowan Method
pc	987.64	kPa	Joback Method
rinpol	2396.00		NIST Webbook
rinpol	2396.00		NIST Webbook
tb	863.58	K	Joback Method
tc	1057.59	K	Joback Method
tf	482.73	K	Joback Method
vc	1.302	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1108.85	J/mol×K	863.58	Joback Method
cpg	1127.61	J/mol×K	895.91	Joback Method
cpg	1145.17	J/mol×K	928.25	Joback Method
cpg	1161.54	J/mol×K	960.58	Joback Method
cpg	1176.77	J/mol×K	992.92	Joback Method
cpg	1190.90	J/mol×K	1025.25	Joback Method
cpg	1203.96	J/mol×K	1057.59	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=U321904&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321904&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>
<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>h vap:</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>r in pol:</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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