

# I-Leucine, N-ethoxycarbonyl-N-methyl-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C25H49NO4/c1-6-8-9-10-11-12-13-14-15-16-17-18-19-20-30-24(27)23(21-22)(
<b>InchiKey:</b>	FWZCAARLHWGSOM-UHFFFAOYSA-N
<b>Formula:</b>	C25H49NO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC
<b>Mol. weight [g/mol]:</b>	427.66

## Physical Properties

Property code	Value	Unit	Source
gf	-202.32	kJ/mol	Joback Method
hf	-991.96	kJ/mol	Joback Method
hfus	62.05	kJ/mol	Joback Method
hvap	90.82	kJ/mol	Joback Method
log10ws	-7.43		Crippen Method
logp	7.124		Crippen Method
mcvol	387.970	ml/mol	McGowan Method
pc	810.76	kPa	Joback Method
rinpola	2725.00		NIST Webbook
tb	935.54	K	Joback Method
tc	1148.84	K	Joback Method
tf	518.30	K	Joback Method
vc	1.490	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1326.77	J/mol×K	935.54	Joback Method
cpg	1347.53	J/mol×K	971.09	Joback Method
cpg	1366.71	J/mol×K	1006.64	Joback Method
cpg	1384.35	J/mol×K	1042.19	Joback Method
cpg	1400.51	J/mol×K	1077.74	Joback Method
cpg	1415.24	J/mol×K	1113.29	Joback Method
cpg	1428.60	J/mol×K	1148.84	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=U321929&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321929&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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