

# I-Leucine, n-pentafluoropropionyl-, hexadecyl ester

Inchi:	InChI=1S/C25H44F5NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-34-22(32)21(19-20)
InchiKey:	NTAJODFUTMZGQI-UHFFFAOYSA-N
Formula:	C25H44F5NO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(CC(C)C)NC(=O)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	501.61

## Physical Properties

Property code	Value	Unit	Source
gf	-1087.08	kJ/mol	Joback Method
hf	-1871.85	kJ/mol	Joback Method
hfus	63.52	kJ/mol	Joback Method
hvap	86.13	kJ/mol	Joback Method
log10ws	-8.96		Crippen Method
logp	7.739		Crippen Method
mcvol	390.950	ml/mol	McGowan Method
pc	743.67	kPa	Joback Method
rinpol	2484.00		NIST Webbook
rinpol	2484.00		NIST Webbook
tb	940.74	K	Joback Method
tc	1162.30	K	Joback Method
tf	524.05	K	Joback Method
vc	1.556	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1350.15	J/mol×K	940.74	Joback Method
cpg	1370.36	J/mol×K	977.67	Joback Method
cpg	1389.17	J/mol×K	1014.59	Joback Method
cpg	1406.71	J/mol×K	1051.52	Joback Method
cpg	1423.10	J/mol×K	1088.45	Joback Method
cpg	1438.45	J/mol×K	1125.38	Joback Method
cpg	1452.89	J/mol×K	1162.30	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=U321015&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321015&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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