

# I-Isoleucine, n-pentafluoropropionyl-, propyl ester

Inchi:	InChI=1S/C12H18F5NO3/c1-4-6-21-9(19)8(7(3)5-2)18-10(20)11(13,14)12(15,16)17/h7-8
InchiKey:	OTRXXZBZQQSDKQ-UHFFFAOYSA-N
Formula:	C12H18F5NO3
SMILES:	CCCOC(=O)C(NC(=O)C(F)(F)C(F)(F)F)C(C)CC
Mol. weight [g/mol]:	319.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1196.54	kJ/mol	Joback Method
hf	-1603.53	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	57.19	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	2.668		Crippen Method
mcvol	207.780	ml/mol	McGowan Method
pc	1708.95	kPa	Joback Method
rinsol	1303.00		NIST Webbook
tb	643.30	K	Joback Method
tc	812.90	K	Joback Method
tf	377.54	K	Joback Method
vc	0.829	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.84	J/mol×K	643.30	Joback Method
cpg	604.14	J/mol×K	671.57	Joback Method
cpg	616.68	J/mol×K	699.83	Joback Method
cpg	628.49	J/mol×K	728.10	Joback Method
cpg	639.60	J/mol×K	756.37	Joback Method
cpg	650.05	J/mol×K	784.63	Joback Method
cpg	659.86	J/mol×K	812.90	Joback Method

# Sources

<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=U320865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320865&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<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>

# 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>hvap:</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>rinpola:</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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