

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

<b>Inchi:</b>	InChI=1S/C19H32F5NO3/c1-4-6-7-8-9-10-11-12-13-28-16(26)15(14(3)5-2)25-17(27)18(2
<b>InchiKey:</b>	VOGQDFGPQBLICO-UHFFFAOYSA-N
<b>Formula:</b>	C19H32F5NO3
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(NC(=O)C(F)(F)C(F)(F)F)C(C)CC
<b>Mol. weight [g/mol]:</b>	417.45

## Physical Properties

Property code	Value	Unit	Source
gf	-1137.60	kJ/mol	Joback Method
hf	-1748.01	kJ/mol	Joback Method
hfus	47.98	kJ/mol	Joback Method
hvap	72.77	kJ/mol	Joback Method
log10ws	-6.45		Crippen Method
logp	5.399		Crippen Method
mcvol	306.410	ml/mol	McGowan Method
pc	1046.65	kPa	Joback Method
rinsol	1929.00		NIST Webbook
tb	803.46	K	Joback Method
tc	984.55	K	Joback Method
tf	456.43	K	Joback Method
vc	1.220	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	981.98	J/mol×K	803.46	Joback Method
cpg	998.31	J/mol×K	833.64	Joback Method
cpg	1013.67	J/mol×K	863.82	Joback Method
cpg	1028.12	J/mol×K	894.01	Joback Method
cpg	1041.70	J/mol×K	924.19	Joback Method
cpg	1054.47	J/mol×K	954.37	Joback Method
cpg	1066.48	J/mol×K	984.55	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U320871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320871&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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