

# I-Valine, n-pentafluoropropionyl-, ethyl ester

<b>Inchi:</b>	InChI=1S/C10H14F5NO3/c1-4-19-7(17)6(5(2)3)16-8(18)9(11,12)10(13,14)15/h5-6H,4H2
<b>InchiKey:</b>	NQHfVNYqFLOUKD-UHFFFAOYSA-N
<b>Formula:</b>	C10H14F5NO3
<b>SMILES:</b>	CCOC(=O)C(NC(=O)C(F)(F)C(F)(F)F)C(C)C
<b>Mol. weight [g/mol]:</b>	291.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1213.38	kJ/mol	Joback Method
hf	-1562.25	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	52.74	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	1.888		Crippen Method
mvol	179.600	ml/mol	McGowan Method
pc	2016.32	kPa	Joback Method
rinpol	958.00		NIST Webbook
rinpol	958.00		NIST Webbook
tb	597.54	K	Joback Method
tc	768.17	K	Joback Method
tf	355.00	K	Joback Method
vc	0.717	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	489.65	J/mol×K	597.54	Joback Method
cpg	501.97	J/mol×K	625.98	Joback Method
cpg	513.56	J/mol×K	654.42	Joback Method
cpg	524.47	J/mol×K	682.85	Joback Method
cpg	534.71	J/mol×K	711.29	Joback Method
cpg	544.32	J/mol×K	739.73	Joback Method
cpg	553.32	J/mol×K	768.17	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=U320878&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320878&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>
<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

Latest version available from:

<https://www.cheméo.com/cid/55-324-1/l-Valine-n-pentafluoropropionyl-ethyl-ester.pdf>

Generated by Cheméo on 2024-04-19 21:57:37.78435506 +0000 UTC m=+15853106.704932376.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.