

# «beta»-Alanine, n-pentafluoropropionyl-, propyl ester

<b>Inchi:</b>	InChI=1S/C9H12F5NO3/c1-2-5-18-6(16)3-4-15-7(17)8(10,11)9(12,13)14/h2-5H2,1H3,(H,
<b>InchiKey:</b>	ZAVDUJUNBMRPLS-UHFFFAOYSA-N
<b>Formula:</b>	C9H12F5NO3
<b>SMILES:</b>	CCCOC(=O)CCNC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	277.19

## Physical Properties

Property code	Value	Unit	Source
gf	-1216.92	kJ/mol	Joback Method
hf	-1531.05	kJ/mol	Joback Method
hfus	29.12	kJ/mol	Joback Method
hvap	51.29	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	1.643		Crippen Method
mcvol	165.510	ml/mol	McGowan Method
pc	2169.38	kPa	Joback Method
rinsol	1202.00		NIST Webbook
tb	575.54	K	Joback Method
tc	741.52	K	Joback Method
tf	373.73	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.45	J/mol×K	575.54	Joback Method
cpg	451.72	J/mol×K	603.20	Joback Method
cpg	462.35	J/mol×K	630.87	Joback Method
cpg	472.35	J/mol×K	658.53	Joback Method
cpg	481.77	J/mol×K	686.19	Joback Method
cpg	490.62	J/mol×K	713.86	Joback Method
cpg	498.94	J/mol×K	741.52	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=U320948&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320948&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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>mccvol:</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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