

# «beta»-alanine, trifluoroacetyl-isopropyl ester

<b>Inchi:</b>	InChI=1S/C8H12F3NO3/c1-5(2)15-6(13)3-4-12-7(14)8(9,10)11/h5H,3-4H2,1-2H3,(H,12,1
<b>InchiKey:</b>	JPHKRJVNMJIUJE-UHFFFAOYSA-N
<b>Formula:</b>	C8H12F3NO3
<b>SMILES:</b>	CC(C)OC(=O)CCNC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	227.18

## Physical Properties

Property code	Value	Unit	Source
gf	-841.00	kJ/mol	Joback Method
hf	-1114.72	kJ/mol	Joback Method
hfus	24.26	kJ/mol	Joback Method
hvap	51.60	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.007		Crippen Method
mcvol	147.880	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
rinqol	1160.00		NIST Webbook
tb	556.91	K	Joback Method
tc	732.53	K	Joback Method
tf	343.86	K	Joback Method
vc	0.586	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.04	J/molxK	556.91	Joback Method
cpg	385.25	J/molxK	586.18	Joback Method
cpg	395.88	J/molxK	615.45	Joback Method
cpg	405.93	J/molxK	644.72	Joback Method
cpg	415.43	J/molxK	673.99	Joback Method
cpg	424.40	J/molxK	703.26	Joback Method
cpg	432.84	J/molxK	732.53	Joback Method

# Sources

<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>
<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=R267799&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R267799&amp;Units=SI</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>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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