

# L-Valine, N-(5-fluoro-2-trifluoromethyl)-, propyl ester

Inchi:	InChI=1S/C16H19F4NO3/c1-4-7-24-15(23)13(9(2)3)21-14(22)11-8-10(17)5-6-12(11)16(1
InchiKey:	UYQFTCWMMNBUJFF-UHFFFAOYSA-N
Formula:	C16H19F4NO3
SMILES:	CCCOC(=O)C(NC(=O)c1cc(F)ccc1C(F)(F)F)C(C)C
Mol. weight [g/mol]:	349.32

## Physical Properties

Property code	Value	Unit	Source
gf	-877.74	kJ/mol	Joback Method
hf	-1267.64	kJ/mol	Joback Method
hfus	37.80	kJ/mol	Joback Method
hvap	71.81	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	3.552		Crippen Method
mcvol	238.610	ml/mol	McGowan Method
pc	1631.17	kPa	Joback Method
rinpola	1871.00		NIST Webbook
rinpola	1871.00		NIST Webbook
tb	775.42	K	Joback Method
tc	968.98	K	Joback Method
tf	471.07	K	Joback Method
vc	0.938	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	709.57	J/mol×K	775.42	Joback Method
cpg	722.86	J/mol×K	807.68	Joback Method
cpg	735.23	J/mol×K	839.94	Joback Method
cpg	746.73	J/mol×K	872.20	Joback Method
cpg	757.39	J/mol×K	904.46	Joback Method
cpg	767.26	J/mol×K	936.72	Joback Method
cpg	776.36	J/mol×K	968.98	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346421&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346421&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>hvp:</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>rinp:</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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