

# L-Valine, N-(3-fluoro-4-trifluoromethylbenzoyl)-, nonyl

Inchi:  
ester

InChI=1S/C22H31F4NO3/c1-4-5-6-7-8-9-10-13-30-21(29)19(15(2)3)27-20(28)16-11-12-1

InchiKey:

NMJDBVWSXFYIOE-UHFFFAOYSA-N

Formula:

C22H31F4NO3

SMILES:

CCCCCCCCCOC(=O)C(NC(=O)c1ccc(C(F)(F)F)c(F)c1)C(C)C

Mol. weight [g/mol]:

433.48

## Physical Properties

Property code	Value	Unit	Source
gf	-827.22	kJ/mol	Joback Method
hf	-1391.48	kJ/mol	Joback Method
hfus	53.34	kJ/mol	Joback Method
hvap	85.16	kJ/mol	Joback Method
log10ws	-7.43		Crippen Method
logp	5.893		Crippen Method
mvol	323.150	ml/mol	McGowan Method
pc	1073.57	kPa	Joback Method
rinpol	2363.00		NIST Webbook
rinpol	2363.00		NIST Webbook
tb	912.70	K	Joback Method
tc	1117.72	K	Joback Method
tf	538.69	K	Joback Method
vc	1.274	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1057.16	J/molxK	912.70	Joback Method
cpg	1072.44	J/molxK	946.87	Joback Method
cpg	1086.59	J/molxK	981.04	Joback Method
cpg	1099.67	J/molxK	1015.21	Joback Method
cpg	1111.75	J/molxK	1049.38	Joback Method
cpg	1122.89	J/molxK	1083.55	Joback Method
cpg	1133.14	J/molxK	1117.72	Joback Method

# Sources

<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.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>
<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=U346558&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346558&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>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

Latest version available from:

<https://www.cheméo.com/cid/119-209-8/L-Valine-N-3-fluoro-4-trifluoromethylbenzoyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-04-27 09:53:41.037057197 +0000 UTC m=+16500869.957634529.

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