

# L-Valine, N-(3-trifluoromethylbenzoyl)-, isohehexyl ester

<b>Inchi:</b>	InChI=1S/C19H26F3NO3/c1-12(2)7-6-10-26-18(25)16(13(3)4)23-17(24)14-8-5-9-15(11-1
<b>InchiKey:</b>	HBIPFQSZCNWBIP-UHFFFAOYSA-N
<b>Formula:</b>	C19H26F3NO3
<b>SMILES:</b>	CC(C)CCCOC(=O)C(NC(=O)c1cccc(C(F)(F)F)c1)C(C)C
<b>Mol. weight [g/mol]:</b>	373.41

## Physical Properties

Property code	Value	Unit	Source
gf	-650.48	kJ/mol	Joback Method
hf	-1127.26	kJ/mol	Joback Method
hfus	39.36	kJ/mol	Joback Method
hvap	78.25	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	4.439		Crippen Method
mvol	279.110	ml/mol	McGowan Method
pc	1375.82	kPa	Joback Method
rinpol	2123.00		NIST Webbook
rinpol	2123.00		NIST Webbook
tb	839.37	K	Joback Method
tc	1039.48	K	Joback Method
tf	476.77	K	Joback Method
vc	1.081	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	873.76	J/mol×K	839.37	Joback Method
cpg	888.55	J/mol×K	872.72	Joback Method
cpg	902.28	J/mol×K	906.07	Joback Method
cpg	915.00	J/mol×K	939.42	Joback Method
cpg	926.77	J/mol×K	972.77	Joback Method
cpg	937.65	J/mol×K	1006.12	Joback Method
cpg	947.68	J/mol×K	1039.48	Joback Method

# Sources

<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=U346718&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346718&amp;Units=SI</a>
<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>

# 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.chemeo.com/cid/113-006-9/L-Valine-N-3-trifluoromethylbenzoyl-isoheptyl-ester.pdf>

Generated by Cheméo on 2024-04-23 16:04:25.402359895 +0000 UTC m=+16177514.322937211.

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