

# L-Valine, N-(2-trifluoromethylbenzoyl)-, hexyl ester

Inchi:	InChI=1S/C19H26F3NO3/c1-4-5-6-9-12-26-18(25)16(13(2)3)23-17(24)14-10-7-8-11-15(1)
InchiKey:	UHTDDHOVRBVBHBC-UHFFFAOYSA-N
Formula:	C19H26F3NO3
SMILES:	CCCCCOC(=O)C(NC(=O)c1ccccc1C(F)(F)F)C(C)C
Mol. weight [g/mol]:	373.41

## Physical Properties

Property code	Value	Unit	Source
gf	-648.04	kJ/mol	Joback Method
hf	-1121.98	kJ/mol	Joback Method
hfus	42.88	kJ/mol	Joback Method
hvap	78.64	kJ/mol	Joback Method
log10ws	-5.84		Crippen Method
logp	4.583		Crippen Method
mvol	279.110	ml/mol	McGowan Method
pc	1367.69	kPa	Joback Method
rinpol	2238.00		NIST Webbook
rinpol	2238.00		NIST Webbook
tb	839.81	K	Joback Method
tc	1038.28	K	Joback Method
tf	491.77	K	Joback Method
vc	1.087	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	873.23	J/molxK	839.81	Joback Method
cpg	887.90	J/molxK	872.89	Joback Method
cpg	901.55	J/molxK	905.97	Joback Method
cpg	914.22	J/molxK	939.04	Joback Method
cpg	925.96	J/molxK	972.12	Joback Method
cpg	936.83	J/molxK	1005.20	Joback Method
cpg	946.87	J/molxK	1038.28	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U346706&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346706&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

Latest version available from:

<https://www.chemeo.com/cid/119-188-2/L-Valine-N-2-trifluoromethylbenzoyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-05-02 06:01:42.662071577 +0000 UTC m=+16918951.582648894.

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