

# L-Valine, N-(3-bromobenzoyl)-, heptyl ester

<b>Inchi:</b>	InChI=1S/C19H28BrNO3/c1-4-5-6-7-8-12-24-19(23)17(14(2)3)21-18(22)15-10-9-11-16(2)
<b>InchiKey:</b>	FXUXNKPWAXUACQ-UHFFFAOYSA-N
<b>Formula:</b>	C19H28BrNO3
<b>SMILES:</b>	CCCCCCCOC(=O)C(NC(=O)c1cccc(Br)c1)C(C)C
<b>Mol. weight [g/mol]:</b>	398.33

## Physical Properties

Property code	Value	Unit	Source
gf	-52.13	kJ/mol	Joback Method
hf	-498.57	kJ/mol	Joback Method
hfus	46.34	kJ/mol	Joback Method
hvap	88.82	kJ/mol	Joback Method
log10ws	-6.32		Crippen Method
logp	4.717		Crippen Method
mcvol	291.300	ml/mol	McGowan Method
pc	1575.95	kPa	Joback Method
rinpol	2656.00		NIST Webbook
rinpol	2656.00		NIST Webbook
tb	911.39	K	Joback Method
tc	1128.80	K	Joback Method
tf	547.38	K	Joback Method
vc	1.107	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	888.91	J/molxK	911.39	Joback Method
cpg	903.06	J/molxK	947.62	Joback Method
cpg	916.10	J/molxK	983.86	Joback Method
cpg	928.08	J/molxK	1020.09	Joback Method
cpg	939.06	J/molxK	1056.33	Joback Method
cpg	949.09	J/molxK	1092.56	Joback Method
cpg	958.23	J/molxK	1128.80	Joback Method

# Sources

<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=U346689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346689&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</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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