

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

<b>Inchi:</b>	InChI=1S/C16H22BrNO3/c1-4-5-9-21-16(20)14(11(2)3)18-15(19)12-7-6-8-13(17)10-12/h
<b>InchiKey:</b>	BGGWBOJSAOUCGG-UHFFFAOYSA-N
<b>Formula:</b>	C16H22BrNO3
<b>SMILES:</b>	CCCCOC(=O)C(NC(=O)c1cccc(Br)c1)C(C)C
<b>Mol. weight [g/mol]:</b>	356.25

## Physical Properties

Property code	Value	Unit	Source
gf	-77.39	kJ/mol	Joback Method
hf	-436.65	kJ/mol	Joback Method
hfus	38.57	kJ/mol	Joback Method
hvap	82.14	kJ/mol	Joback Method
log10ws	-5.06		Crippen Method
logp	3.547		Crippen Method
mcvol	249.030	ml/mol	McGowan Method
pc	2009.10	kPa	Joback Method
rinpol	2353.00		NIST Webbook
rinpol	2353.00		NIST Webbook
tb	842.75	K	Joback Method
tc	1062.49	K	Joback Method
tf	513.57	K	Joback Method
vc	0.939	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	715.96	J/molxK	842.75	Joback Method
cpg	729.48	J/molxK	879.37	Joback Method
cpg	741.94	J/molxK	916.00	Joback Method
cpg	753.39	J/molxK	952.62	Joback Method
cpg	763.89	J/molxK	989.24	Joback Method
cpg	773.46	J/molxK	1025.87	Joback Method
cpg	782.17	J/molxK	1062.49	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=U346686&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U346686&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>h vap:</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>r in pol:</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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