

# «beta»-Alanine, N-(2-chlorobenzoyl)-, butyl ester

Inchi:	InChI=1S/C14H18ClNO3/c1-2-3-10-19-13(17)8-9-16-14(18)11-6-4-5-7-12(11)15/h4-7H,2
InchiKey:	VUQQMELHTPWSLV-UHFFFAOYSA-N
Formula:	C14H18ClNO3
SMILES:	CCCCOC(=O)CCNC(=O)c1ccccc1Cl
Mol. weight [g/mol]:	283.75

## Physical Properties

Property code	Value	Unit	Source
gf	-115.60	kJ/mol	Joback Method
hf	-426.88	kJ/mol	Joback Method
hfus	39.35	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
log10ws	-3.88		Crippen Method
logp	2.803		Crippen Method
mcvol	215.590	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	2257.00		NIST Webbook
rinpol	2257.00		NIST Webbook
tb	769.14	K	Joback Method
tc	980.40	K	Joback Method
tf	491.15	K	Joback Method
vc	0.826	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	592.46	J/mol×K	769.14	Joback Method
cpg	605.49	J/mol×K	804.35	Joback Method
cpg	617.60	J/mol×K	839.56	Joback Method
cpg	628.80	J/mol×K	874.77	Joback Method
cpg	639.13	J/mol×K	909.98	Joback Method
cpg	648.61	J/mol×K	945.19	Joback Method
cpg	657.26	J/mol×K	980.40	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=U321574&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321574&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>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>rinpola:</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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