

# «beta»-Alanine, N-(2-bromobenzoyl)-, dodecyl ester

Inchi:	InChI=1S/C22H34BrNO3/c1-2-3-4-5-6-7-8-9-10-13-18-27-21(25)16-17-24-22(26)19-14-1
InchiKey:	NBKYWDHFSGYNII-UHFFFAOYSA-N
Formula:	C22H34BrNO3
SMILES:	CCCCCCCCCCCCOC(=O)CCNC(=O)c1ccccc1Br
Mol. weight [g/mol]:	440.41

## Physical Properties

Property code	Value	Unit	Source
gf	-21.99	kJ/mol	Joback Method
hf	-549.93	kJ/mol	Joback Method
hfus	61.16	kJ/mol	Joback Method
hvap	96.28	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	6.033		Crippen Method
mcvol	333.570	ml/mol	McGowan Method
pc	1254.81	kPa	Joback Method
rinpol	3487.00		NIST Webbook
rinpol	3487.00		NIST Webbook
tb	980.91	K	Joback Method
tc	1201.88	K	Joback Method
tf	611.19	K	Joback Method
vc	1.286	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1067.43	J/mol×K	980.91	Joback Method
cpg	1082.25	J/mol×K	1017.74	Joback Method
cpg	1095.92	J/mol×K	1054.57	Joback Method
cpg	1108.49	J/mol×K	1091.40	Joback Method
cpg	1120.03	J/mol×K	1128.22	Joback Method
cpg	1130.61	J/mol×K	1165.05	Joback Method
cpg	1140.29	J/mol×K	1201.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321736&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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

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