

# «beta»-Alanine, N-(4-butylbenzoyl)-, hexyl ester

Inchi:	InChI=1S/C20H31NO3/c1-3-5-7-8-16-24-19(22)14-15-21-20(23)18-12-10-17(11-13-18)9
InchiKey:	IKVIVCXRTAUNML-UHFFFAOYSA-N
Formula:	C20H31NO3
SMILES:	CCCCCOC(=O)CCNC(=O)c1ccc(CCCC)cc1
Mol. weight [g/mol]:	333.46

## Physical Properties

Property code	Value	Unit	Source
gf	-53.15	kJ/mol	Joback Method
hf	-534.98	kJ/mol	Joback Method
hfus	50.69	kJ/mol	Joback Method
hvap	85.39	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	4.273		Crippen Method
mvol	287.890	ml/mol	McGowan Method
pc	1371.74	kPa	Joback Method
rinpol	2734.00		NIST Webbook
rinpol	2734.00		NIST Webbook
tb	868.99	K	Joback Method
tc	1072.63	K	Joback Method
tf	528.85	K	Joback Method
vc	1.113	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	907.99	J/mol×K	868.99	Joback Method
cpg	923.79	J/mol×K	902.93	Joback Method
cpg	938.49	J/mol×K	936.87	Joback Method
cpg	952.12	J/mol×K	970.81	Joback Method
cpg	964.71	J/mol×K	1004.75	Joback Method
cpg	976.31	J/mol×K	1038.69	Joback Method
cpg	986.96	J/mol×K	1072.63	Joback Method

# Sources

<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=U321773&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321773&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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