

# «beta»-Alanine, N-(4-methylbenzoyl)-, isobutyl ester

Inchi:	InChI=1S/C15H21NO3/c1-11(2)10-19-14(17)8-9-16-15(18)13-6-4-12(3)5-7-13/h4-7,11H,
InchiKey:	ZEFRNTVYWORXET-UHFFFAOYSA-N
Formula:	C15H21NO3
SMILES:	Cc1ccc(C(=O)NCCC(=O)OCC(C)C)cc1
Mol. weight [g/mol]:	263.33

## Physical Properties

Property code	Value	Unit	Source
gf	-97.69	kJ/mol	Joback Method
hf	-437.06	kJ/mol	Joback Method
hfus	34.22	kJ/mol	Joback Method
hvap	73.87	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	2.314		Crippen Method
mcvol	217.440	ml/mol	McGowan Method
pc	2043.76	kPa	Joback Method
rinpol	2182.00		NIST Webbook
tb	754.15	K	Joback Method
tc	962.94	K	Joback Method
tf	457.50	K	Joback Method
vc	0.827	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	622.01	J/mol×K	754.15	Joback Method
cpg	636.72	J/mol×K	788.95	Joback Method
cpg	650.44	J/mol×K	823.75	Joback Method
cpg	663.19	J/mol×K	858.55	Joback Method
cpg	675.00	J/mol×K	893.35	Joback Method
cpg	685.89	J/mol×K	928.15	Joback Method
cpg	695.89	J/mol×K	962.94	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=U321600&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321600&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>
<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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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