

# Sarcosine, N-(3-methoxybenzoyl)-, isobutyl ester

Inchi:	InChI=1S/C15H21NO4/c1-11(2)10-20-14(17)9-16(3)15(18)12-6-5-7-13(8-12)19-4/h5-8,1
InchiKey:	YTVHSWYUFFFHJE-UHFFFAOYSA-N
Formula:	C15H21NO4
SMILES:	COc1cccc(C(=O)N(C)CC(=O)OCC(C)C)c1
Mol. weight [g/mol]:	279.33

## Physical Properties

Property code	Value	Unit	Source
gf	-181.30	kJ/mol	Joback Method
hf	-555.22	kJ/mol	Joback Method
hfus	33.33	kJ/mol	Joback Method
hvap	71.89	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	1.966		Crippen Method
mcvol	223.310	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
rinpola	2177.00		NIST Webbook
tb	738.84	K	Joback Method
tc	943.66	K	Joback Method
tf	459.54	K	Joback Method
vc	0.828	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.20	J/molxK	738.84	Joback Method
cpg	649.34	J/molxK	772.98	Joback Method
cpg	663.48	J/molxK	807.11	Joback Method
cpg	676.62	J/molxK	841.25	Joback Method
cpg	688.79	J/molxK	875.39	Joback Method
cpg	700.00	J/molxK	909.52	Joback Method
cpg	710.28	J/molxK	943.66	Joback Method

# Sources

<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>
<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=U321491&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321491&amp;Units=SI</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>mccvol:</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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