

# Sarcosine, N-(3-cyclopentylpropionyl)-, butyl ester

<b>Inchi:</b>	InChI=1S/C15H27NO3/c1-3-4-11-19-15(18)12-16(2)14(17)10-9-13-7-5-6-8-13/h13H,3-12
<b>InchiKey:</b>	QILYZJOTHHUBBY-UHFFFAOYSA-N
<b>Formula:</b>	C15H27NO3
<b>SMILES:</b>	CCCCOC(=O)CN(C)C(=O)CCC1CCCC1
<b>Mol. weight [g/mol]:</b>	269.38

## Physical Properties

Property code	Value	Unit	Source
gf	-140.09	kJ/mol	Joback Method
hf	-582.30	kJ/mol	Joback Method
hfus	35.95	kJ/mol	Joback Method
hvap	67.19	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.758		Crippen Method
mcvol	230.340	ml/mol	McGowan Method
pc	1778.84	kPa	Joback Method
rinpola	2091.00		NIST Webbook
tb	700.48	K	Joback Method
tc	892.60	K	Joback Method
tf	424.27	K	Joback Method
vc	0.865	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.94	J/molxK	700.48	Joback Method
cpg	697.96	J/molxK	732.50	Joback Method
cpg	714.94	J/molxK	764.52	Joback Method
cpg	730.90	J/molxK	796.54	Joback Method
cpg	745.90	J/molxK	828.56	Joback Method
cpg	759.96	J/molxK	860.58	Joback Method
cpg	773.11	J/molxK	892.60	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=U321832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321832&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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