

# Sarcosine, N-(cyclohexylcarbonyl)-, hexyl ester

Inchi:	InChI=1S/C16H29NO3/c1-3-4-5-9-12-20-15(18)13-17(2)16(19)14-10-7-6-8-11-14/h14H,3
InchiKey:	BOKICPPAPUYHNM-UHFFFAOYSA-N
Formula:	C16H29NO3
SMILES:	CCCCCOC(=O)CN(C)C(=O)C1CCCCC1
Mol. weight [g/mol]:	283.41

## Physical Properties

Property code	Value	Unit	Source
gf	-143.77	kJ/mol	Joback Method
hf	-609.10	kJ/mol	Joback Method
hfus	36.44	kJ/mol	Joback Method
hvap	69.58	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.149		Crippen Method
mcvol	244.430	ml/mol	McGowan Method
pc	1676.91	kPa	Joback Method
rinpol	2147.00		NIST Webbook
tb	727.63	K	Joback Method
tc	923.10	K	Joback Method
tf	432.02	K	Joback Method
vc	0.912	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.23	J/mol×K	727.63	Joback Method
cpg	759.07	J/mol×K	760.21	Joback Method
cpg	776.76	J/mol×K	792.79	Joback Method
cpg	793.33	J/mol×K	825.37	Joback Method
cpg	808.82	J/mol×K	857.94	Joback Method
cpg	823.25	J/mol×K	890.52	Joback Method
cpg	836.66	J/mol×K	923.10	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321532&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321532&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.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>

# 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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