

# Sarcosine, N-cyclopropylcarbonyl-, nonyl ester

Inchi:	InChI=1S/C16H29NO3/c1-3-4-5-6-7-8-9-12-20-15(18)13-17(2)16(19)14-10-11-14/h14H,3
InchiKey:	PJOZBXQSPOICSU-UHFFFAOYSA-N
Formula:	C16H29NO3
SMILES:	CCCCCCCCCOC(=O)CN(C)C(=O)C1CC1
Mol. weight [g/mol]:	283.41

## Physical Properties

Property code	Value	Unit	Source
gf	-107.47	kJ/mol	Joback Method
hf	-590.62	kJ/mol	Joback Method
hfus	42.74	kJ/mol	Joback Method
hvap	69.07	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.149		Crippen Method
mvol	244.430	ml/mol	McGowan Method
pc	1578.46	kPa	Joback Method
rinpol	2157.00		NIST Webbook
rinpol	2157.00		NIST Webbook
tb	714.82	K	Joback Method
tc	897.39	K	Joback Method
tf	442.58	K	Joback Method
vc	0.936	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.08	J/mol×K	714.82	Joback Method
cpg	747.20	J/mol×K	745.25	Joback Method
cpg	763.42	J/mol×K	775.68	Joback Method
cpg	778.78	J/mol×K	806.10	Joback Method
cpg	793.32	J/mol×K	836.53	Joback Method
cpg	807.07	J/mol×K	866.96	Joback Method
cpg	820.09	J/mol×K	897.39	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=U321194&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321194&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>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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