

# Sarcosine, N-(cyclopentylcarbonyl)-, nonyl ester

Inchi:	InChI=1S/C18H33NO3/c1-3-4-5-6-7-8-11-14-22-17(20)15-19(2)18(21)16-12-9-10-13-16/
InchiKey:	RSUYBIMOHXKQMG-UHFFFAOYSA-N
Formula:	C18H33NO3
SMILES:	CCCCCCCCCOC(=O)CN(C)C(=O)C1CCCC1
Mol. weight [g/mol]:	311.46

## Physical Properties

Property code	Value	Unit	Source
gf	-114.83	kJ/mol	Joback Method
hf	-644.22	kJ/mol	Joback Method
hfus	43.72	kJ/mol	Joback Method
hvap	73.86	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.929		Crippen Method
mcvol	272.610	ml/mol	McGowan Method
pc	1414.37	kPa	Joback Method
rinpol	2363.00		NIST Webbook
rinpol	2363.00		NIST Webbook
tb	769.12	K	Joback Method
tc	959.18	K	Joback Method
tf	458.08	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	853.47	J/mol×K	769.12	Joback Method
cpg	872.13	J/mol×K	800.80	Joback Method
cpg	889.69	J/mol×K	832.47	Joback Method
cpg	906.19	J/mol×K	864.15	Joback Method
cpg	921.67	J/mol×K	895.83	Joback Method
cpg	936.16	J/mol×K	927.51	Joback Method
cpg	949.71	J/mol×K	959.18	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321340&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321340&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>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

Latest version available from:

<https://www.chemeo.com/cid/99-364-9/Sarcosine-N-cyclopentylcarbonyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-04-23 21:01:18.607850602 +0000 UTC m=+16195327.528427919.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.