

# Sarcosine, N-cyclopropylcarbonyl-, undecyl ester

Inchi:	InChI=1S/C18H33NO3/c1-3-4-5-6-7-8-9-10-11-14-22-17(20)15-19(2)18(21)16-12-13-16/
InchiKey:	UDIZCIRHZOEJBN-UHFFFAOYSA-N
Formula:	C18H33NO3
SMILES:	CCCCCCCCCCCCOC(=O)CN(C)C(=O)C1CC1
Mol. weight [g/mol]:	311.46

## Physical Properties

Property code	Value	Unit	Source
gf	-90.63	kJ/mol	Joback Method
hf	-631.90	kJ/mol	Joback Method
hfus	47.92	kJ/mol	Joback Method
hvap	73.52	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.929		Crippen Method
mvol	272.610	ml/mol	McGowan Method
pc	1362.64	kPa	Joback Method
rinpol	2370.00		NIST Webbook
rinpol	2370.00		NIST Webbook
tb	760.58	K	Joback Method
tc	943.78	K	Joback Method
tf	465.12	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	845.71	J/molxK	760.58	Joback Method
cpg	863.50	J/molxK	791.11	Joback Method
cpg	880.35	J/molxK	821.65	Joback Method
cpg	896.30	J/molxK	852.18	Joback Method
cpg	911.40	J/molxK	882.71	Joback Method
cpg	925.68	J/molxK	913.25	Joback Method
cpg	939.21	J/molxK	943.78	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=U321195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321195&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

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