

# Sarcosine, n-hexanoyl-, nonyl ester

<b>Inchi:</b>	InChI=1S/C18H35NO3/c1-4-6-8-9-10-11-13-15-22-18(21)16-19(3)17(20)14-12-7-5-2/h4-
<b>InchiKey:</b>	ZJBFUSPAEUISOT-UHFFFAOYSA-N
<b>Formula:</b>	C18H35NO3
<b>SMILES:</b>	CCCCCCCCCOC(=O)CN(C)C(=O)CCCCC
<b>Mol. weight [g/mol]:</b>	313.48

## Physical Properties

Property code	Value	Unit	Source
gf	-151.38	kJ/mol	Joback Method
hf	-704.70	kJ/mol	Joback Method
hfus	49.78	kJ/mol	Joback Method
hvap	73.61	kJ/mol	Joback Method
log10ws	-4.56		Crippen Method
logp	4.319		Crippen Method
mcvol	283.470	ml/mol	McGowan Method
pc	1240.71	kPa	Joback Method
rinpol	2299.00		NIST Webbook
rinpol	2299.00		NIST Webbook
tb	753.84	K	Joback Method
tc	931.11	K	Joback Method
tf	447.18	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	860.75	J/mol×K	753.84	Joback Method
cpg	878.53	J/mol×K	783.38	Joback Method
cpg	895.40	J/mol×K	812.93	Joback Method
cpg	911.37	J/mol×K	842.47	Joback Method
cpg	926.47	J/mol×K	872.02	Joback Method
cpg	940.74	J/mol×K	901.56	Joback Method
cpg	954.19	J/mol×K	931.11	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=U321127&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321127&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>hvp:</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>rinp:</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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