

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

<b>Inchi:</b>	InChI=1S/C18H33NO3/c1-3-4-5-6-7-11-14-22-17(20)15-19(2)18(21)16-12-9-8-10-13-16/
<b>InchiKey:</b>	ZAGRALKGNKAAQY-UHFFFAOYSA-N
<b>Formula:</b>	C18H33NO3
<b>SMILES:</b>	CCCCCCCCOC(=O)CN(C)C(=O)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	311.46

## Physical Properties

Property code	Value	Unit	Source
gf	-126.93	kJ/mol	Joback Method
hf	-650.38	kJ/mol	Joback Method
hfus	41.62	kJ/mol	Joback Method
hvap	74.04	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.929		Crippen Method
mvol	272.610	ml/mol	McGowan Method
pc	1441.35	kPa	Joback Method
rinpol	2360.00		NIST Webbook
rinpol	2360.00		NIST Webbook
tb	773.39	K	Joback Method
tc	967.23	K	Joback Method
tf	454.56	K	Joback Method
vc	1.024	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	857.42	J/mol×K	773.39	Joback Method
cpg	876.55	J/mol×K	805.70	Joback Method
cpg	894.47	J/mol×K	838.00	Joback Method
cpg	911.24	J/mol×K	870.31	Joback Method
cpg	926.88	J/mol×K	902.62	Joback Method
cpg	941.44	J/mol×K	934.92	Joback Method
cpg	954.95	J/mol×K	967.23	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=U321534&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321534&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>h vap:</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>r in pol:</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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