

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

<b>Inchi:</b>	InChI=1S/C24H45NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-20-28-23(26)21-25(2)24(27)
<b>InchiKey:</b>	BLWITBKTTXSLRO-UHFFFAOYSA-N
<b>Formula:</b>	C24H45NO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)C1CCCC1
<b>Mol. weight [g/mol]:</b>	395.62

## Physical Properties

Property code	Value	Unit	Source
gf	-64.31	kJ/mol	Joback Method
hf	-768.06	kJ/mol	Joback Method
hfus	59.26	kJ/mol	Joback Method
hvap	87.22	kJ/mol	Joback Method
log10ws	-6.73		Crippen Method
logp	6.269		Crippen Method
mvol	357.150	ml/mol	McGowan Method
pc	955.55	kPa	Joback Method
rinpol	3080.00		NIST Webbook
rinpol	3080.00		NIST Webbook
tb	906.40	K	Joback Method
tc	1109.80	K	Joback Method
tf	525.70	K	Joback Method
vc	1.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1222.82	J/mol×K	906.40	Joback Method
cpg	1243.03	J/mol×K	940.30	Joback Method
cpg	1261.89	J/mol×K	974.20	Joback Method
cpg	1279.46	J/mol×K	1008.10	Joback Method
cpg	1295.81	J/mol×K	1042.00	Joback Method
cpg	1311.01	J/mol×K	1075.90	Joback Method
cpg	1325.11	J/mol×K	1109.80	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=U321344&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321344&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>

# 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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