

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

<b>Inchi:</b>	InChI=1S/C23H43NO3/c1-3-4-5-6-7-8-9-10-11-12-13-16-19-27-22(25)20-24(2)23(26)21-
<b>InchiKey:</b>	NMHRZOLHOSGKEV-UHFFFAOYSA-N
<b>Formula:</b>	C23H43NO3
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)C1CCCC1
<b>Mol. weight [g/mol]:</b>	381.59

## Physical Properties

Property code	Value	Unit	Source
gf	-72.73	kJ/mol	Joback Method
hf	-747.42	kJ/mol	Joback Method
hfus	56.67	kJ/mol	Joback Method
hvap	84.99	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	5.879		Crippen Method
mvol	343.060	ml/mol	McGowan Method
pc	1014.89	kPa	Joback Method
rinpol	2922.00		NIST Webbook
tb	883.52	K	Joback Method
tc	1082.70	K	Joback Method
tf	514.43	K	Joback Method
vc	1.312	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1159.61	J/molxK	883.52	Joback Method
cpg	1179.48	J/molxK	916.72	Joback Method
cpg	1198.07	J/molxK	949.91	Joback Method
cpg	1215.41	J/molxK	983.11	Joback Method
cpg	1231.59	J/molxK	1016.31	Joback Method
cpg	1246.64	J/molxK	1049.50	Joback Method
cpg	1260.64	J/molxK	1082.70	Joback Method

# Sources

<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.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=U321343&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321343&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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/29-747-1/Sarcosine-N-cyclopentylcarbonyl-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-04-29 23:31:30.83604195 +0000 UTC m=+16722739.756619262.

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