

# Sarcosine, N-(3-cyclopentylpropionyl)-, tetradecyl ester

<b>Inchi:</b>	InChI=1S/C25H47NO3/c1-3-4-5-6-7-8-9-10-11-12-13-16-21-29-25(28)22-26(2)24(27)20-
<b>InchiKey:</b>	GVODMYFJNYSEJR-UHFFFAOYSA-N
<b>Formula:</b>	C25H47NO3
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)CCC1CCCC1
<b>Mol. weight [g/mol]:</b>	409.65

## Physical Properties

Property code	Value	Unit	Source
gf	-55.89	kJ/mol	Joback Method
hf	-788.70	kJ/mol	Joback Method
hfus	61.85	kJ/mol	Joback Method
hvap	89.45	kJ/mol	Joback Method
log10ws	-7.15		Crippen Method
logp	6.659		Crippen Method
mvol	371.240	ml/mol	McGowan Method
pc	901.26	kPa	Joback Method
tb	929.28	K	Joback Method
tc	1137.84	K	Joback Method
tf	536.97	K	Joback Method
vc	1.425	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1286.55	J/molxK	929.28	Joback Method
cpg	1307.15	J/molxK	964.04	Joback Method
cpg	1326.33	J/molxK	998.80	Joback Method
cpg	1344.16	J/molxK	1033.56	Joback Method
cpg	1360.71	J/molxK	1068.32	Joback Method
cpg	1376.06	J/molxK	1103.08	Joback Method
cpg	1390.28	J/molxK	1137.84	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=U321837&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321837&amp;Units=SI</a>
<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>

# 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>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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