

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

Inchi:	InChI=1S/C14H25NO3/c1-3-4-7-10-18-13(16)11-15(2)14(17)12-8-5-6-9-12/h12H,3-11H2
InchiKey:	SLRKPOSWRZCCEY-UHFFFAOYSA-N
Formula:	C14H25NO3
SMILES:	CCCCCOC(=O)CN(C)C(=O)C1CCCC1
Mol. weight [g/mol]:	255.35

## Physical Properties

Property code	Value	Unit	Source
gf	-148.51	kJ/mol	Joback Method
hf	-561.66	kJ/mol	Joback Method
hfus	33.36	kJ/mol	Joback Method
hvap	64.96	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.368		Crippen Method
mvol	216.250	ml/mol	McGowan Method
pc	1932.13	kPa	Joback Method
rmpol	1955.00		NIST Webbook
rmpol	1955.00		NIST Webbook
tb	677.60	K	Joback Method
tc	871.35	K	Joback Method
tf	413.00	K	Joback Method
vc	0.808	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.23	J/mol×K	677.60	Joback Method
cpg	641.98	J/mol×K	709.89	Joback Method
cpg	658.70	J/mol×K	742.18	Joback Method
cpg	674.44	J/mol×K	774.48	Joback Method
cpg	689.22	J/mol×K	806.77	Joback Method
cpg	703.08	J/mol×K	839.06	Joback Method
cpg	716.04	J/mol×K	871.35	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=U321337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321337&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

Latest version available from:

<https://www.chemeo.com/cid/20-230-3/Sarcosine-N-cyclopentylcarbonyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-23 18:54:02.985162571 +0000 UTC m=+16187691.905739882.

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