

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

Inchi:	InChI=1S/C12H21NO3/c1-3-8-16-11(14)9-13(2)12(15)10-6-4-5-7-10/h10H,3-9H2,1-2H3
InchiKey:	ITYUXPFUTILAEO-UHFFFAOYSA-N
Formula:	C12H21NO3
SMILES:	CCCOC(=O)CN(C)C(=O)C1CCCC1
Mol. weight [g/mol]:	227.30

## Physical Properties

Property code	Value	Unit	Source
gf	-165.35	kJ/mol	Joback Method
hf	-520.38	kJ/mol	Joback Method
hfus	28.18	kJ/mol	Joback Method
hvap	60.51	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.588		Crippen Method
mcvol	188.070	ml/mol	McGowan Method
pc	2304.74	kPa	Joback Method
rinsol	1754.00		NIST Webbook
tb	631.84	K	Joback Method
tc	830.00	K	Joback Method
tf	390.46	K	Joback Method
vc	0.697	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.46	J/mol×K	631.84	Joback Method
cpg	533.53	J/mol×K	664.87	Joback Method
cpg	549.62	J/mol×K	697.89	Joback Method
cpg	564.76	J/mol×K	730.92	Joback Method
cpg	578.97	J/mol×K	763.95	Joback Method
cpg	592.29	J/mol×K	796.97	Joback Method
cpg	604.75	J/mol×K	830.00	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321336&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321336&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>
<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>

# 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/93-708-3/Sarcosine-N-cyclopentylcarbonyl-propyl-ester.pdf>

Generated by Cheméo on 2024-04-27 06:59:03.506900146 +0000 UTC m=+16490392.427477461.

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