

Sarcosine, N-(cyclopentylcarbonyl)-, decyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C19H35NO3/c1-3-4-5-6-7-8-9-12-15-23-18(21)16-20(2)19(22)17-13-10-11-14-

CGPMEVCGHPOJAX-UHFFFAOYSA-N

C19H35NO3

CCCCCCCCCOC(=O)CN(C)C(=O)C1CCCC1

325.49

Physical Properties

Property code	Value	Unit	Source
gf	-106.41	kJ/mol	Joback Method
hf	-664.86	kJ/mol	Joback Method
hfus	46.31	kJ/mol	Joback Method
hvap	76.09	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.319		Crippen Method
mcvol	286.700	ml/mol	McGowan Method
pc	1317.52	kPa	Joback Method
rinpol	2466.00		NIST Webbook
tb	792.00	K	Joback Method
tc	982.49	K	Joback Method
tf	469.35	K	Joback Method
vc	1.089	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	913.18	J/mol×K	792.00	Joback Method
cpg	932.05	J/mol×K	823.75	Joback Method
cpg	949.79	J/mol×K	855.50	Joback Method
cpg	966.44	J/mol×K	887.25	Joback Method
cpg	982.05	J/mol×K	918.99	Joback Method
cpg	996.65	J/mol×K	950.74	Joback Method
cpg	1010.29	J/mol×K	982.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321341&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rmpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/46-235-0/Sarcosine-N-cyclopentylcarbonyl-decyl-ester.pdf>

Generated by Cheméo on 2025-12-20 14:39:54.61425154 +0000 UTC m=+5989792.144292194.

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