Sarcosine, N-cyclopropylcarbonyl-, heptyl ester

Inchi: InChI=1S/C14H25NO3/c1-3-4-5-6-7-10-18-13(16)11-15(2)14(17)12-8-9-12/h12H,3-11H2

InchiKey: RJHZLDVRQVLVTR-UHFFFAOYSA-N

Formula: C14H25NO3

SMILES: CCCCCCCOC(=O)CN(C)C(=O)C1CC1

Mol. weight [g/mol]: 255.35

Physical Properties

Property code	Value	Unit	Source
gf	-124.31	kJ/mol	Joback Method
hf	-549.34	kJ/mol	Joback Method
hfus	37.56	kJ/mol	Joback Method
hvap	64.62	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.368		Crippen Method
mcvol	216.250	ml/mol	McGowan Method
pc	1849.92	kPa	Joback Method
rinpol	1957.00		NIST Webbook
tb	669.06	K	Joback Method
tc	852.99	K	Joback Method
tf	420.04	K	Joback Method
vc	0.825	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.81	J/mol×K	669.06	Joback Method
cpg	635.22	J/mol×K	699.72	Joback Method
cpg	650.76	J/mol×K	730.37	Joback Method
cpg	665.47	J/mol×K	761.03	Joback Method
cpg	679.39	J/mol×K	791.68	Joback Method
cpg	692.55	J/mol×K	822.34	Joback Method
cpg	704.99	J/mol×K	852.99	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321192&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume