Sarcosylsarcosine, n-propoxycarbonyl-, propyl ester

Inchi: InChI=1S/C13H24N2O5/c1-5-7-19-12(17)10-14(3)11(16)9-15(4)13(18)20-8-6-2/h5-10H2

InchiKey: UUPQSYOFXNLOLK-UHFFFAOYSA-N

Formula: C13H24N2O5

SMILES: CCCOC(=O)CN(C)C(=O)CN(C)C(=O)OCCC

Mol. weight [g/mol]: 288.34

Physical Properties

Property code	Value	Unit	Source
gf	-316.62	kJ/mol	Joback Method
hf	-778.77	kJ/mol	Joback Method
hfus	42.64	kJ/mol	Joback Method
hvap	73.68	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	0.876		Crippen Method
mcvol	230.440	ml/mol	McGowan Method
pc	1865.94	kPa	Joback Method
rinpol	2073.00		NIST Webbook
rinpol	2073.00		NIST Webbook
tb	728.17	K	Joback Method
tc	910.71	K	Joback Method
tf	495.46	K	Joback Method
vc	0.854	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.30	J/mol×K	728.17	Joback Method
cpg	683.73	J/mol×K	758.59	Joback Method
cpg	697.33	J/mol×K	789.02	Joback Method
cpg	710.12	J/mol×K	819.44	Joback Method
cpg	722.11	J/mol×K	849.86	Joback Method
cpg	733.33	J/mol×K	880.28	Joback Method
cpg	743.77	J/mol×K	910.71	Joback Method

Sources

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=U320637&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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