

Sarcosine, n-hexanoyl-, ethyl ester

Inchi:	InChI=1S/C11H21NO3/c1-4-6-7-8-10(13)12(3)9-11(14)15-5-2/h4-9H2,1-3H3
InchiKey:	LDWRRYVNDMGLSN-UHFFFAOYSA-N
Formula:	C11H21NO3
SMILES:	CCCCCC(=O)N(C)CC(=O)OCC
Mol. weight [g/mol]:	215.29

Physical Properties

Property code	Value	Unit	Source
gf	-210.32	kJ/mol	Joback Method
hf	-560.22	kJ/mol	Joback Method
hfus	31.65	kJ/mol	Joback Method
hvap	58.02	kJ/mol	Joback Method
log10ws	-1.63		Crippen Method
logp	1.588		Crippen Method
mcvol	184.840	ml/mol	McGowan Method
pc	2129.52	kPa	Joback Method
rinpola	1621.00		NIST Webbook
tb	593.68	K	Joback Method
tc	771.34	K	Joback Method
tf	368.29	K	Joback Method
vc	0.700	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.61	J/mol×K	593.68	Joback Method
cpg	490.16	J/mol×K	623.29	Joback Method
cpg	504.05	J/mol×K	652.90	Joback Method
cpg	517.27	J/mol×K	682.51	Joback Method
cpg	529.86	J/mol×K	712.12	Joback Method
cpg	541.81	J/mol×K	741.73	Joback Method
cpg	553.15	J/mol×K	771.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321122&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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