Glycine, N-methyl-n-propoxycarbonyl-, ethyl ester

Inchi: InChI=1S/C9H17NO4/c1-4-6-14-9(12)10(3)7-8(11)13-5-2/h4-7H2,1-3H3
InchiKey: XVNSUXMYOVONAH-UHFFFAOYSA-N
Formula: C9H17NO4
SMILES: CCCOC(=O)N(C)CC(=O)OCC
Mol. weight [g/mol]: 203.24

Physical Properties

Property code	Value	Unit	Source
gf	-332.16	kJ/mol	Joback Method
hf	-651.16	kJ/mol	Joback Method
hfus	27.66	kJ/mol	Joback Method
hvap	55.98	kJ/mol	Joback Method
log10ws	-0.86		Crippen Method
logp	1.028		Crippen Method
mcvol	162.530	ml/mol	McGowan Method
pc	2520.12	kPa	Joback Method
rinpol	1371.00		NIST Webbook
tb	570.34	K	Joback Method
tc	750.33	K	Joback Method
tf	367.98	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.49	J/mol×K	570.34	Joback Method
cpg	416.47	J/mol×K	600.34	Joback Method
cpg	428.89	J/mol×K	630.34	Joback Method
cpg	440.76	J/mol×K	660.34	Joback Method
cpg	452.08	J/mol×K	690.34	Joback Method
cpg	462.84	J/mol×K	720.34	Joback Method
cpg	473.05	J/mol×K	750.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U320618&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume