Glycine, N-methyl-N-allyloxycarbonyl-, tetradecyl ester

Inchi: InChI=1S/C21H39NO4/c1-4-6-7-8-9-10-11-12-13-14-15-16-18-25-20(23)19-22(3)21(24)2

InchiKey: FKXWOHTZOYWOIN-UHFFFAOYSA-N

Formula: C21H39NO4

SMILES: C=CCOC(=O)N(C)CC(=O)OCCCCCCCCCCCCCC

Mol. weight [g/mol]: 369.54

Physical Properties

Property code	Value	Unit	Source
gf	-143.28	kJ/mol	Joback Method
hf	-773.41	kJ/mol	Joback Method
hfus	57.46	kJ/mol	Joback Method
hvap	82.03	kJ/mol	Joback Method
log10ws	-5.74		Crippen Method
logp	5.485		Crippen Method
mcvol	327.310	ml/mol	McGowan Method
pc	1039.24	kPa	Joback Method
rinpol	2359.00		NIST Webbook
tb	841.58	K	Joback Method
tc	1030.84	K	Joback Method
tf	501.46	K	Joback Method
vc	1.258	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1046.29	J/mol×K	841.58	Joback Method
cpg	1064.60	J/mol×K	873.12	Joback Method
cpg	1081.79	J/mol×K	904.67	Joback Method
cpg	1097.90	J/mol×K	936.21	Joback Method
cpg	1112.96	J/mol×K	967.75	Joback Method
cpg	1126.99	J/mol×K	999.30	Joback Method
cpg	1140.04	J/mol×K	1030.84	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U320597&Units=SI

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