Glycine, N-methyl-N-allyloxycarbonyl-, dodecyl ester

Inchi: InChI=1S/C19H35NO4/c1-4-6-7-8-9-10-11-12-13-14-16-23-18(21)17-20(3)19(22)24-15-5

InchiKey: LVQAQGLVYNYDIT-UHFFFAOYSA-N

Formula: C19H35NO4

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

Mol. weight [g/mol]: 341.49

Physical Properties

Property code	Value	Unit	Source
gf	-160.12	kJ/mol	Joback Method
hf	-732.13	kJ/mol	Joback Method
hfus	52.28	kJ/mol	Joback Method
hvap	77.57	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	4.705		Crippen Method
mcvol	299.130	ml/mol	McGowan Method
pc	1180.90	kPa	Joback Method
rinpol	2177.00		NIST Webbook
rinpol	2177.00		NIST Webbook
tb	795.82	K	Joback Method
tc	978.32	K	Joback Method
tf	478.92	K	Joback Method
vc	1.147	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	925.21	J/mol×K	795.82	Joback Method
cpg	942.65	J/mol×K	826.24	Joback Method
cpg	959.12	J/mol×K	856.65	Joback Method
cpg	974.61	J/mol×K	887.07	Joback Method
cpg	989.17	J/mol×K	917.49	Joback Method
cpg	1002.81	J/mol×K	947.91	Joback Method
cpg	1015.56	J/mol×K	978.32	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=U320596&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