(Pent-3-yl) glycine

Inchi: InChI=1S/C7H15NO2/c1-3-5(4-2)6(8)7(9)10/h5-6H,3-4,8H2,1-2H3,(H,9,10)
InchiKey: IXLUUORVBOXZGB-UHFFFAOYSA-N
Formula: C7H15NO2
SMILES: CCC(CC)C(N)C(=O)O
Mol. weight [g/mol]: 145.20
CAS: 14328-54-2

Physical Properties

Property code	Value	Unit	Source
gf	-196.11	kJ/mol	Joback Method
hf	-429.39	kJ/mol	Joback Method
hfus	17.72	kJ/mol	Joback Method
hvap	64.47	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	0.835		Crippen Method
mcvol	126.910	ml/mol	McGowan Method
pc	3620.24	kPa	Joback Method
tb	577.26	K	Joback Method
tc	763.93	K	Joback Method
tf	332.66	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.89	J/mol×K	577.26	Joback Method
cpg	331.46	J/mol×K	608.37	Joback Method
cpg	341.51	J/mol×K	639.48	Joback Method
cpg	351.06	J/mol×K	670.59	Joback Method
cpg	360.12	J/mol×K	701.70	Joback Method
cpg	368.71	J/mol×K	732.82	Joback Method
cpg	376.84	J/mol×K	763.93	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14328542&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume