Glycyl-L-glutamic acid

Other names: L-Glutamic acid, N-glycyl-
N-glycyl-L-glutamic acid
Inchi: InChI=1S/C7H12N2O5/c8-3-5(10)9-4(7(13)14)1-2-6(11)12/h4H,1-3,8H2,(H,9,10)(H,11,12
InchiKey: IEFJWDNGDZAYNZ-SCSAIBSYSA-N
Formula: C7H12N2O5
SMILES: NCC(=O)NC(CCC(=O)O)C(=O)O
Mol. weight [g/mol]: 204.18
CAS: 7412-78-4

Physical Properties

Property code	Value	Unit	Source
gf	-498.94	kJ/mol	Joback Method
hf	-748.03	kJ/mol	Joback Method
hfus	33.63	kJ/mol	Joback Method
hvap	101.46	kJ/mol	Joback Method
log10ws	0.54		Crippen Method
logp	-1.621		Crippen Method
mcvol	145.900	ml/mol	McGowan Method
pc	4829.24	kPa	Joback Method
tb	827.79	K	Joback Method
tc	1024.39	K	Joback Method
tf	561.00	K	Joback Method
vc	0.541	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.83	J/mol×K	827.79	Joback Method
cpg	434.65	J/mol×K	860.56	Joback Method
cpg	440.97	J/mol×K	893.32	Joback Method
cpg	446.81	J/mol×K	926.09	Joback Method
cpg	452.17	J/mol×K	958.86	Joback Method
cpg	457.08	J/mol×K	991.62	Joback Method
cpg	461.55	J/mol×K	1024.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7412784&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume