Glycine, N,N'-1,2-ethanediylbis-

Other names:	Glycine, N,N'-ethylenedi-
	Acetic acid, 2,2'-(1,2-ethanediyldiimino)bis-
	Ethylenediamine-N,N'-diacetic acid
	Ethylenediaminediacetic acid
	Ethylenediiminodiacetic acid
	EDDA
	N,N'-Ethylenediaminediacetic acid
	N,N'-Ethylenediglycine
	((2-[(Carboxymethyl)amino]ethyl)amino)acetic acid
	1,2-Bis(carboxymethylamino)ethane
Inchi:	InChI=1S/C6H12N2O4/c9-5(10)3-7-1-2-8-4-6(11)12/h7-8H,1-4H2,(H,9,10)(H,11,12)
InchiKey:	IFQUWYZCAGRUJN-UHFFFAOYSA-N
Formula:	C6H12N2O4
SMILES:	O=C(O)CNCCNCC(=O)O
Mol. weight [g/mol]:	176.17
CAS:	5657-17-0

Physical Properties

Property code	Value	Unit	Source
chs	-3095.80 ± 1.80	kJ/mol	NIST Webbook
gf	-353.06	kJ/mol	Joback Method
hf	-589.85	kJ/mol	Joback Method
hfs	-980.20 ± 1.90	kJ/mol	NIST Webbook
hfus	32.87	kJ/mol	Joback Method
hvap	88.67	kJ/mol	Joback Method
log10ws	1.09		Crippen Method
logp	-1.665		Crippen Method
mcvol	130.240	ml/mol	McGowan Method
pc	4704.19	kPa	Joback Method
tb	729.12	K	Joback Method
tc	909.69	K	Joback Method
tf	484.20	K	Joback Method
vc	0.491	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.63	J/mol×K	729.12	Joback Method
cpg	373.03	J/mol×K	759.21	Joback Method
cpg	380.00	J/mol×K	789.31	Joback Method
cpg	386.56	J/mol×K	819.40	Joback Method
cpg	392.72	J/mol×K	849.50	Joback Method
cpg	398.50	J/mol×K	879.59	Joback Method
cpg	403.91	J/mol×K	909.69	Joback Method

Sources

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=C5657170&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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