N-(2-Hydroxyethyl)iminodiacetic acid

Other names:	Glycine, N-(carboxymethyl)-N-(2-hydroxyethyl)- Acetic acid, [(2-hydroxyethyl)imino]di- (Hydroxyethylimino)diacetic acid (2-Hydroxyethyl)iminodiacetic acid [(«beta»-Hydroxyethyl)imino]diacetic acid Acetic acid, (hydroxyethyl)iminodi- Ethanolamine-N,N-diacetic acid Hydroxyethylnitrilodiacetic acid HEIDA N-(«beta»-Hydroxyethyl)Iminodiacetic acid N-(2-Hydroxyethyl)imidodiacetic acid N-Hydroxyethyliminodiacetic acid 2-Hydroxyethylaminodiacetic acid USAF DO-37 NSC 18474
Inchi:	InChI=1S/C6H11NO5/c8-2-1-7(3-5(9)10)4-6(11)12/h8H,1-4H2,(H,9,10)(H,11,12)
InchiKey:	JYXGIOKAKDAARW-UHFFFAOYSA-N
Formula:	C6H11NO5
SMILES:	O=C(O)CN(CCO)CC(=O)O
Mol. weight [g/mol]:	177.16
CAS:	93-62-9

Physical Properties

Property code	Value	Unit	Source
chs	-2799.10 ± 2.30	kJ/mol	NIST Webbook
gf	-557.88	kJ/mol	Joback Method
hf	-781.49	kJ/mol	Joback Method
hfs	-1134.00 ± 2.30	kJ/mol	NIST Webbook
hfus	29.78	kJ/mol	Joback Method
hvap	94.52	kJ/mol	Joback Method
log10ws	1.63		Crippen Method
logp	-1.550		Crippen Method
mcvol	126.130	ml/mol	McGowan Method
pc	5146.06	kPa	Joback Method
tb	733.40	K	Joback Method
tc	907.23	K	Joback Method
tf	472.17	K	Joback Method

vc	0.459	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.47	J/mol×K	733.40	Joback Method
cpg	359.98	J/mol×K	762.37	Joback Method
cpg	366.13	J/mol×K	791.34	Joback Method
cpg	371.93	J/mol×K	820.31	Joback Method
cpg	377.39	J/mol×K	849.28	Joback Method
cpg	382.52	J/mol×K	878.26	Joback Method
cpg	387.35	J/mol×K	907.23	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C93629&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

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