Ethyldiethanolamine

Other names:	Ethanol, 2,2'-(ethylimino)bis-
	Ethanol, 2,2'-(ethylimino)di-
	Diethanolethylamine
	Ethylamine, bis(2-hydroxyethyl)-
	Ethylbis(2-hydroxyethyl)amine
	N-Bis(2-hydroxyethyl)-N-ethylamine
	N-Ethyl-2,2'-iminodiethanol
	N-Ethyldiethanolamine
	2,2'-(Ethylimino)diethanol
	2-(N-Ethyl-N-2-hydroxyethylamino)ethanol
	N,N-Bis(2-hydroxyethyl)ethylamine
	2-[Ethyl-(2-hydroxy-ethyl)-amino]-ethanol
	N-Ethyl-N,N-diethanolamine
	2,2'-(Ethylazanediyl)diethanol
Inchi:	InChI=1S/C6H15NO2/c1-2-7(3-5-8)4-6-9/h8-9H,2-6H2,1H3
InchiKey:	AKNUHUCEWALCOI-UHFFFAOYSA-N
Formula:	C6H15NO2
SMILES:	CCN(CCO)CCO
Mol. weight [g/mol]:	133.19
CAS:	139-87-7

Physical Properties

Property code	Value	Unit	Source
gf	-163.22	kJ/mol	Joback Method
hf	-404.10	kJ/mol	Joback Method
hfus	22.49	kJ/mol	Joback Method
hvap	64.35	kJ/mol	Joback Method
log10ws	0.57		Crippen Method
logp	-0.707		Crippen Method
mcvol	117.120	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
tb	522.20	K	NIST Webbook
tc	689.96	K	Joback Method
tf	311.49	K	Joback Method
vc	0.427	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.15	J/mol×K	533.48	Joback Method
cpg	297.29	J/mol×K	559.56	Joback Method
cpg	306.05	J/mol×K	585.64	Joback Method
cpg	314.44	J/mol×K	611.72	Joback Method
cpg	322.48	J/mol×K	637.80	Joback Method
cpg	330.17	J/mol×K	663.88	Joback Method
cpg	337.54	J/mol×K	689.96	Joback Method

Sources

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=C139877&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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