Acetamide, N-(2-hydroxyethyl)-

Other names:	«beta»-Hydroxyethylacetamide
	Acetylcolamine
	N-(«beta»-Hydroxyethyl)acetamide
	N-(2-Hydroxyethyl)acetamide
	N-Acetylethanolamine
	N-Ethanolacetamide
	2-Acetamidoethanol
	2-Acetylaminoethanol
	N-Acetyl-2-aminoethanol
	Hydroxyethyl acetamide
	Acetamide MEA
	Amidex AME
	Carsamide AMEA
	Foamid AME-100
	Foamid AME-70
	Foamid AME-75
	Hetamide MA
	Incromectant AMEA-100
	Incromectant AMEA-70
	Lipamide MEAA
	Mackamide AME-100
	Schercomid AME 70
	Upamide ACMEA
	NSC 5999
Inchi:	InChI=1S/C4H9NO2/c1-4(7)5-2-3-6/h6H,2-3H2,1H3,(H,5,7)
InchiKey:	PVCJKHHOXFKFRP-UHFFFAOYSA-N
Formula:	C4H9NO2
SMILES:	CC(=O)NCCO
Mol. weight [g/mol]:	103.12
CAS:	142-26-7

Physical Properties

Property code	Value	Unit	Source
gf	-193.55	kJ/mol	Joback Method
hf	-337.23	kJ/mol	Joback Method
hfus	16.90	kJ/mol	Joback Method

hvap	54.36	kJ/mol	Joback Method
log10ws	0.27		Crippen Method
logp	-0.885		Crippen Method
mcvol	84.640	ml/mol	McGowan Method
pc	4862.97	kPa	Joback Method
tb	487.14	K	Joback Method
tc	664.33	K	Joback Method
tf	298.25	K	Joback Method
vc	0.320	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.92	J/mol×K	487.14	Joback Method
cpg	190.21	J/mol×K	516.67	Joback Method
cpg	197.19	J/mol×K	546.20	Joback Method
cpg	203.86	J/mol×K	575.73	Joback Method
cpg	210.24	J/mol×K	605.26	Joback Method
cpg	216.32	J/mol×K	634.79	Joback Method
cpg	222.11	J/mol×K	664.33	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	426.20	K	0.70	NIST Webbook
tbrp	447.50 ± 1.50	K	2.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C142267&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume