1-(2-Aminoethylamino)-2-propanol

Other names: N-(«beta»-Hydroxypropyl)ethylenediamine
2-Propanol, 1-[(2-aminoethyl)amino]-
N-(2-Hydroxypropyl)-1,2-ethanediamine
N-(2-Hydroxypropyl-ethylenediamine)
1-[(2-aminoethyl)amino]propan-2-ol
Inchi: InChI=1S/C5H14N2O/c1-5(8)4-7-3-2-6/h5,7-8H,2-4,6H2,1H3
InchiKey: CWKVFRNCODQPDB-UHFFFAOYSA-N
Formula: C5H14N2O
SMILES: CC(O)CNCCN
Mol. weight [g/mol]: 118.18
CAS: 123-84-2

Physical Properties

Property code	Value	Unit	Source
gf	7.80	kJ/mol	Joback Method
hf	-216.78	kJ/mol	Joback Method
hfus	19.57	kJ/mol	Joback Method
hvap	60.09	kJ/mol	Joback Method
log10ws	0.09		Crippen Method
logp	-1.085		Crippen Method
mcvol	107.140	ml/mol	McGowan Method
pc	4283.05	kPa	Joback Method
tb	528.24	K	Joback Method
tc	708.76	K	Joback Method
tf	327.85	K	Joback Method
vc	0.393	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.55	J/mol×K	528.24	Joback Method
cpg	271.20	J/mol×K	558.33	Joback Method
cpg	280.41	J/mol×K	588.41	Joback Method
cpg	289.20	J/mol×K	618.50	Joback Method

cpg	297.57	J/mol×K	648.59	Joback Method
cpg	305.55	J/mol×K	678.67	Joback Method
cpg	313.15	J/mol×K	708.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C123842&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