N-methyl-n-b-hydroxyethyl-p-vinyloxyethyl amine

Inchi: InChI=1S/C7H15NO2/c1-3-10-7-5-8(2)4-6-9/h3,9H,1,4-7H2,2H3
InchiKey: QVIVBSSIPORDLF-UHFFFAOYSA-N
Formula: C7H15NO2
SMILES: C=COCCN(C)CCO
Mol. weight [g/mol]: 145.20
CAS: 7368-62-9

Physical Properties

Property code	Value	Unit	Source
gf	-35.14	kJ/mol	Joback Method
hf	-279.30	kJ/mol	Joback Method
hfus	20.90	kJ/mol	Joback Method
hvap	51.64	kJ/mol	Joback Method
log10ws	-0.02		Crippen Method
logp	0.071		Crippen Method
mcvol	126.910	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	483.28	K	Joback Method
tc	645.41	K	Joback Method
tf	282.41	K	Joback Method
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.00	J/mol×K	483.28	Joback Method
cpg	296.68	J/mol×K	510.30	Joback Method
cpg	306.93	J/mol×K	537.32	Joback Method
cpg	316.77	J/mol×K	564.35	Joback Method
cpg	326.22	J/mol×K	591.37	Joback Method
cpg	335.27	J/mol×K	618.39	Joback Method
cpg	343.95	J/mol×K	645.41	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=C7368629&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