Polyglycolamine

Other names: 2-[2-(3-aminopropoxy)ethoxy]ethanol
Inchi: InChI=1S/C7H17NO3/c8-2-1-4-10-6-7-11-5-3-9/h9H,1-8H2
InchiKey: DCZMLYRQHBZWLZ-UHFFFAOYSA-N
Formula: C7H17NO3
SMILES: NCCCOCCOCCO
Mol. weight [g/mol]: 163.21
CAS: 112-33-4

Physical Properties

Property code	Value	Unit	Source
gf	-272.31	kJ/mol	Joback Method
hf	-570.69	kJ/mol	Joback Method
hfus	25.55	kJ/mol	Joback Method
hvap	63.32	kJ/mol	Joback Method
log10ws	0.38		Crippen Method
logp	-0.639		Crippen Method
mcvol	137.080	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	569.11	K	Joback Method
tc	739.88	K	Joback Method
tf	357.19	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.86	J/mol×K	569.11	Joback Method
cpg	362.61	J/mol×K	597.57	Joback Method
cpg	372.97	J/mol×K	626.03	Joback Method
cpg	382.95	J/mol×K	654.49	Joback Method
cpg	392.53	J/mol×K	682.95	Joback Method
cpg	401.71	J/mol×K	711.42	Joback Method
cpg	410.51	J/mol×K	739.88	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C112334&Units=SI

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