2,2',2''-Nitrilotriethanol, dimethyl ether

Other names: 2-[Bis(2-methoxyethyl)amino]ethanol
Inchi: InChI=1S/C8H19NO3/c1-11-7-4-9(3-6-10)5-8-12-2/h10H,3-8H2,1-2H3
InchiKey: YLPUPVLGIIAANM-UHFFFAOYSA-N
Formula: C8H19NO3
SMILES: COCCN(CCO)CCOC
Mol. weight [g/mol]: 177.24

Physical Properties

Property code	Value	Unit	Source
gf	-219.56	kJ/mol	Joback Method
hf	-557.59	kJ/mol	Joback Method
hfus	25.96	kJ/mol	Joback Method
hvap	56.94	kJ/mol	Joback Method
log10ws	0.82		Crippen Method
logp	-0.426		Crippen Method
mcvol	151.170	ml/mol	McGowan Method
pc	2684.64	kPa	Joback Method
tb	531.90	K	Joback Method
tc	690.76	K	Joback Method
tf	317.67	K	Joback Method
vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.47	J/mol×K	531.90	Joback Method
cpg	385.44	J/mol×K	558.38	Joback Method
cpg	397.00	J/mol×K	584.85	Joback Method
cpg	408.14	J/mol×K	611.33	Joback Method
cpg	418.87	J/mol×K	637.81	Joback Method
cpg	429.20	J/mol×K	664.28	Joback Method
cpg	439.12	J/mol×K	690.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378700&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