2,2',2''-Nitrilotriethanol, ethyl ether

Other names: 2,2'-[(2-Ethoxyethyl)azanediyl]diethanol
Inchi: InChI=1S/C8H19NO3/c1-2-12-8-5-9(3-6-10)4-7-11/h10-11H,2-8H2,1H3
InchiKey: SEQKLFDHGFSUHZ-UHFFFAOYSA-N
Formula: C8H19NO3
SMILES: CCOCCN(CCO)CCO
Mol. weight [g/mol]: 177.24

Physical Properties

Property code	Value	Unit	Source
gf	-251.38	kJ/mol	Joback Method
hf	-577.60	kJ/mol	Joback Method
hfus	28.86	kJ/mol	Joback Method
hvap	71.21	kJ/mol	Joback Method
log10ws	0.64		Crippen Method
logp	-0.690		Crippen Method
mcvol	151.170	ml/mol	McGowan Method
pc	3015.64	kPa	Joback Method
rinpol	1386.00		NIST Webbook
tb	601.66	K	Joback Method
tc	758.69	K	Joback Method
tf	356.26	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.26	J/mol×K	601.66	Joback Method
cpg	415.93	J/mol×K	627.83	Joback Method
cpg	426.18	J/mol×K	654.00	Joback Method
cpg	436.00	J/mol×K	680.17	Joback Method
cpg	445.42	J/mol×K	706.34	Joback Method
cpg	454.44	J/mol×K	732.52	Joback Method
cpg	463.07	J/mol×K	758.69	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=U378715&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume