2,2',2''-Nitrilotriethanol, trimethyl ether

Other names: Tris(2-methoxyethyl)amine
Inchi: InChI=1S/C9H21NO3/c1-11-7-4-10(5-8-12-2)6-9-13-3/h4-9H2,1-3H3
InchiKey: QYOCMIVPWWBWGX-UHFFFAOYSA-N
Formula: C9H21NO3
SMILES: COCCN(CCOC)CCOC
Mol. weight [g/mol]: 191.27

Physical Properties

Property code	Value	Unit	Source
gf	-179.32	kJ/mol	Joback Method
hf	-558.22	kJ/mol	Joback Method
hfus	25.65	kJ/mol	Joback Method
hvap	44.90	kJ/mol	Joback Method
log10ws	0.58		Crippen Method
logp	0.228		Crippen Method
mcvol	165.260	ml/mol	McGowan Method
pc	2193.84	kPa	Joback Method
rinpol	1274.00		NIST Webbook
rinpol	1274.00		NIST Webbook
tb	485.02	K	Joback Method
tc	647.15	K	Joback Method
tf	290.35	K	Joback Method
vc	0.612	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.94	J/mol×K	485.02	Joback Method
cpg	398.13	J/mol×K	512.04	Joback Method
cpg	411.90	J/mol×K	539.06	Joback Method
cpg	425.23	J/mol×K	566.09	Joback Method
cpg	438.13	J/mol×K	593.11	Joback Method
cpg	450.59	J/mol×K	620.13	Joback Method
cpg	462.61	J/mol×K	647.15	Joback Method

Sources

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=U378717&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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