2,2',2''-Nitrilotriethanol, triethyl ether

Other names: Tris(2-ethoxyethyl)amine
Inchi: InChI=1S/C12H27NO3/c1-4-14-10-7-13(8-11-15-5-2)9-12-16-6-3/h4-12H2,1-3H3
InchiKey: PULSDMVBVHVNNG-UHFFFAOYSA-N
Formula: C12H27NO3
SMILES: CCOCCN(CCOCC)CCOCC
Mol. weight [g/mol]: 233.35

Physical Properties

Property code	Value	Unit	Source
gf	-154.06	kJ/mol	Joback Method
hf	-620.14	kJ/mol	Joback Method
hfus	33.42	kJ/mol	Joback Method
hvap	51.58	kJ/mol	Joback Method
log10ws	-0.68		Crippen Method
logp	1.398		Crippen Method
mcvol	207.530	ml/mol	McGowan Method
pc	1703.31	kPa	Joback Method
rinpol	1442.00		NIST Webbook
tb	553.66	K	Joback Method
tc	713.78	K	Joback Method
tf	324.16	K	Joback Method
vc	0.779	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.25	J/mol×K	553.66	Joback Method
cpg	546.78	J/mol×K	580.35	Joback Method
cpg	562.73	J/mol×K	607.03	Joback Method
cpg	578.12	J/mol×K	633.72	Joback Method
cpg	592.93	J/mol×K	660.40	Joback Method
cpg	607.18	J/mol×K	687.09	Joback Method
cpg	620.85	J/mol×K	713.78	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=U378714&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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