Tris(2-aminoethyl)amine

Other names:	4-(2-Aminoethyl)diethylene triamine
	1,2-Ethanediamine, N,N-bis(2-aminoethyl)-
	N,N-bis(2-aminoethyl)ethylenediamine
Inchi:	InChI=1S/C6H18N4/c7-1-4-10(5-2-8)6-3-9/h1-9H2
InchiKey:	MBYLVOKEDDQJDY-UHFFFAOYSA-N
Formula:	C6H18N4
SMILES:	NCCN(CCN)CCN
Mol. weight [g/mol]:	146.23
CAS:	4097-89-6

Physical Properties

Property code	Value	Unit	Source
gf	309.77	kJ/mol	Joback Method
hf	1.73	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	62.92	kJ/mol	Joback Method
log10ws	0.79		Crippen Method
logp	-1.835		Crippen Method
mcvol	135.320	ml/mol	McGowan Method
pc	3786.98	kPa	Joback Method
tb	566.71	K	Joback Method
tc	767.07	K	Joback Method
tf	439.63	K	Joback Method
vc	0.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.46	J/mol×K	566.71	Joback Method
cpg	368.16	J/mol×K	600.10	Joback Method
cpg	380.17	J/mol×K	633.50	Joback Method
cpg	391.52	J/mol×K	666.89	Joback Method
cpg	402.23	J/mol×K	700.28	Joback Method
cpg	412.34	J/mol×K	733.68	Joback Method

cpg	421.88	J/mol×K	767.07	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4097896&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