1,2-Propanediamine, n,n,n',n'-tetramethyl-

Inchi: InChI=1S/C7H18N2/c1-7(9(4)5)6-8(2)3/h7H,6H2,1-5H3
InchiKey: JUXXCHAGQCBNTI-UHFFFAOYSA-N
Formula: C7H18N2
SMILES: CC(CN(C)C)N(C)C
Mol. weight [g/mol]: 130.23
CAS: 1822-45-3

Physical Properties

Property code	Value	Unit	Source
gf	227.18	kJ/mol	Joback Method
hf	-58.03	kJ/mol	Joback Method
hfus	16.41	kJ/mol	Joback Method
hvap	34.87	kJ/mol	Joback Method
log10ws	-4.44e-03		Crippen Method
logp	0.498		Crippen Method
mcvol	129.450	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
tb	384.00	K	Joback Method
tc	549.18	K	Joback Method
tf	218.59	K	Joback Method
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.71	J/mol×K	384.00	Joback Method
cpg	264.20	J/mol×K	411.53	Joback Method
cpg	278.08	J/mol×K	439.06	Joback Method
cpg	291.36	J/mol×K	466.59	Joback Method
cpg	304.07	J/mol×K	494.12	Joback Method
cpg	316.22	J/mol×K	521.65	Joback Method
cpg	327.83	J/mol×K	549.18	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=C1822453&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume