Ethylenediamine, n,n,n'-triisopropyl-

Other names: N,N,N'-triisopropylethylenediamine
Inchi: InChI=1S/C11H26N2/c1-9(2)12-7-8-13(10(3)4)11(5)6/h9-12H,7-8H2,1-6H3
InchiKey: NBRDOTCCPKGGCZ-UHFFFAOYSA-N
Formula: C11H26N2
SMILES: CC(C)NCCN(C(C)C)C(C)C
Mol. weight [g/mol]: 186.34
CAS: 97-13-2

Physical Properties

Property code	Value	Unit	Source
gf	234.59	kJ/mol	Joback Method
hf	-165.21	kJ/mol	Joback Method
hfus	21.80	kJ/mol	Joback Method
hvap	47.39	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.103		Crippen Method
mcvol	185.810	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
tb	512.37	K	Joback Method
tc	686.05	K	Joback Method
tf	253.86	K	Joback Method
vc	0.686	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.63	J/mol×K	512.37	Joback Method
cpg	469.56	J/mol×K	541.32	Joback Method
cpg	486.70	J/mol×K	570.26	Joback Method
cpg	503.07	J/mol×K	599.21	Joback Method
cpg	518.69	J/mol×K	628.15	Joback Method
cpg	533.58	J/mol×K	657.10	Joback Method
cpg	547.77	J/mol×K	686.05	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=C97132&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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