N,N'-Diethyl-1,6-hexanediamine

Other names:	N,N'-Diethylhexamethylenediamine
	N,N'-Diethyl-1,6-diaminohexane
	1,6-Hexanediamine, N,N'-diethyl-
	N,N'-Diethylhexylenediamine
Inchi:	InChI=1S/C10H24N2/c1-3-11-9-7-5-6-8-10-12-4-2/h11-12H,3-10H2,1-2H3
InchiKey:	LDQWVRMGQLAWMN-UHFFFAOYSA-N
Formula:	C10H24N2
SMILES:	CCNCCCCCCNCC
Mol. weight [g/mol]:	172.31
CAS:	13093-05-5

Physical Properties

Property code	Value	Unit	Source
gf	212.10	kJ/mol	Joback Method
hf	-142.79	kJ/mol	Joback Method
hfus	31.85	kJ/mol	Joback Method
hvap	50.73	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	1.766		Crippen Method
mcvol	171.720	ml/mol	McGowan Method
pc	2159.31	kPa	Joback Method
tb	528.54	K	Joback Method
tc	698.00	K	Joback Method
tf	307.78	K	Joback Method
vc	0.665	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.61	J/mol×K	528.54	Joback Method
cpg	438.15	J/mol×K	556.78	Joback Method
cpg	453.04	J/mol×K	585.03	Joback Method
cpg	467.31	J/mol×K	613.27	Joback Method
cpg	480.97	J/mol×K	641.51	Joback Method

cpg	494.04	J/mol×K	669.76	Joback Method
cpg	506.53	J/mol×K	698.00	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=C13093055&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