Benzenamine, 4-chloro-N,N-dimethyl-

Inchi: InChI=1S/C8H10ClN/c1-10(2)8-5-3-7(9)4-6-8/h3-6H,1-2H3
InchiKey: IONGEXNDPXANJD-UHFFFAOYSA-N
Formula: C8H10ClN
SMILES: CN(C)c1ccc(Cl)cc1
Mol. weight [g/mol]: 155.62
CAS: 698-69-1

Physical Properties

Property code	Value	Unit	Source
affp	922.90	kJ/mol	NIST Webbook
basg	896.40	kJ/mol	NIST Webbook
gf	218.11	kJ/mol	Joback Method
hf	68.40	kJ/mol	Joback Method
hfus	17.35	kJ/mol	Joback Method
hvap	42.77	kJ/mol	Joback Method
ie	7.20 ± 0.10	eV	NIST Webbook
ie	7.38	eV	NIST Webbook
log10ws	-2.06		Crippen Method
logp	2.406		Crippen Method
mcvol	122.040	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	504.20	K	NIST Webbook
tc	679.10	K	Joback Method
tf	281.25	K	Joback Method
vc	0.443	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.64	J/mol×K	463.97	Joback Method
cpg	245.45	J/mol×K	499.82	Joback Method
cpg	257.46	J/mol×K	535.68	Joback Method
cpg	268.70	J/mol×K	571.53	Joback Method
cpg	279.22	J/mol×K	607.39	Joback Method

cpg	289.03	J/mol×K	643.24	Joback Method
cpg	298.20	J/mol×K	679.10	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=C698691&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

affp:	Proton affinity
basg:	Gas basicity
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
ie:	Ionization energy
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