(CH3)2NCl

Other names:	N-Chlorodimethylamine
	Chloro-dimethyl-amine
Inchi:	InChI=1S/C2H6ClN/c1-4(2)3/h1-2H3
InchiKey:	MAGVJLLHDZWQFM-UHFFFAOYSA-N
Formula:	C2H6ClN
SMILES:	CN(C)Cl
Mol. weight [g/mol]:	79.53
CAS:	1585-74-6

Physical Properties

Property code	Value	Unit	Source
gf	64.81	kJ/mol	Joback Method
hf	-32.82	kJ/mol	Joback Method
hfus	8.15	kJ/mol	Joback Method
hvap	26.47	kJ/mol	Joback Method
ie	8.67 ± 0.02	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	8.75	eV	NIST Webbook
log10ws	-0.37		Crippen Method
logp	0.702		Crippen Method
mcvol	61.260	ml/mol	McGowan Method
pc	4762.81	kPa	Joback Method
tb	295.03	K	Joback Method
tc	464.93	K	Joback Method
tf	174.69	K	Joback Method
vc	0.214	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	81.56	J/mol×K	295.03	Joback Method
cpg	87.41	J/mol×K	323.35	Joback Method
cpg	93.01	J/mol×K	351.66	Joback Method
cpg	98.35	J/mol×K	379.98	Joback Method

cpg	103.45	J/mol×K	408.30	Joback Method
cpg	108.32	J/mol×K	436.62	Joback Method
cpg	112.97	J/mol×K	464.93	Joback Method

Sources

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=C1585746&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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