CHLORAMINE

Inchi: InChI=1S/ClH2N/c1-2/h2H2
InchiKey: QDHHCQZDFGDHMP-UHFFFAOYSA-N
Formula: H2ClN
SMILES: NCl
Mol. weight [g/mol]: 51.48

Physical Properties

Property code	Value	Unit	Source
gf	3.64	kJ/mol	Joback Method
hf	-25.28	kJ/mol	Joback Method
hfus	5.15	kJ/mol	Joback Method
hvap	30.62	kJ/mol	Joback Method
log10ws	-0.40		Crippen Method
logp	0.099		Crippen Method
mcvol	33.080	ml/mol	McGowan Method
pc	6967.65	kPa	Joback Method
tb	309.36	K	Joback Method
tc	501.91	K	Joback Method
tf	202.94	K	Joback Method
vc	0.114	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	41.13	J/mol×K	309.36	Joback Method
cpg	42.71	J/mol×K	341.45	Joback Method
cpg	44.23	J/mol×K	373.54	Joback Method
cpg	45.68	J/mol×K	405.63	Joback Method
cpg	47.08	J/mol×K	437.72	Joback Method
cpg	48.42	J/mol×K	469.81	Joback Method
cpg	49.69	J/mol×K	501.91	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
KDB:	https://www.cheric.org/files/research/kdb/mol/mol1922.mol
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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
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