Benzenamine, 2-chloro-N-methyl-

Other names: 2-Chloro-N-methylaniline
Inchi: InChI=1S/C7H8ClN/c1-9-7-5-3-2-4-6(7)8/h2-5,9H,1H3
InchiKey: WGNNILPYHCKCFF-UHFFFAOYSA-N
Formula: C7H8ClN
SMILES: CNc1ccccc1Cl
Mol. weight [g/mol]: 141.60
CAS: 932-32-1

Physical Properties

Property code	Value	Unit	Source
gf	188.30	kJ/mol	Joback Method
hf	74.98	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	44.94	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	2.382		Crippen Method
mcvol	107.950	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
tb	491.20	K	NIST Webbook
tc	701.96	K	Joback Method
tf	290.17	K	Joback Method
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.99	J/mol×K	478.82	Joback Method
cpg	213.91	J/mol×K	516.01	Joback Method
cpg	224.15	J/mol×K	553.20	Joback Method
cpg	233.74	J/mol×K	590.39	Joback Method
cpg	242.69	J/mol×K	627.58	Joback Method
cpg	251.05	J/mol×K	664.77	Joback Method
cpg	258.84	J/mol×K	701.96	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	368.70	K	1.60	NIST Webbook

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=C932321&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume