Benzenamine, 4-chloro-N-methyl-

Other names:	Aniline, p-chloro-N-methyl-
	N-(p-Chlorobenzyl)methylamine
	p-Chloro-N-methylaniline
	4-Chloro-N-methylaniline
	4-Chloro-N-methylbenzenamine
	N-Methyl-p-chloroaniline
	N-Methyl-4-chloroaniline
	N-(4-Chlorophenyl)-N-methylamine
	p-(Methylamino)chlorobenzene
Inchi:	InChI=1S/C7H8ClN/c1-9-7-4-2-6(8)3-5-7/h2-5,9H,1H3
InchiKey:	XCEYKKJMLOFDSS-UHFFFAOYSA-N
Formula:	C7H8ClN
SMILES:	CNc1ccc(Cl)cc1
Mol. weight [g/mol]:	141.60
CAS:	932-96-7

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	513.20	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

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C932967&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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