Benzenamine, 5-chloro-2-methyl-

Other names:	o-Toluidine, 5-chloro-
	Acco Fast Red KB base
	Ansibase Red KB
	Azoene Fast Red KB base
	Fast Red KB amine
	Fast Red KB salt
	Fast Red KB salt Supra
	Fast Red KB Base
	Fast Red KBS salt
	Genazo Red KB soln
	Hiltonil Fast Red KB base
	Lake Red BK base
	Metrogen Red Former KB soln
	Naphthosol Fast Red KB base
	Pharmazoid Red KB
	Red KB base
	Spectrolene Red KB
	Stable Red KB base
	2-Amino-4-chlorotoluene
	2-Methyl-5-chloroaniline
	3-Chloro-6-methylaniline
	5-Chloro-o-toluidine
	5-Chloro-2-methylaniline
	5-Chloro-ortho-toluidine
	4-Chloro-2-aminotoluene
	Azoic diazo component 32
	Azoic diazo component 32, base
	C.I. Azoic Diazo Component 32
	NCI-C02051
	1-Amino-3-chloro-6-methylbenzene
	5-Chloro-2-methylbenzenamine
	5-Chloro-2-toluidine
	Fast Red KB-T Base
	NSC 7094
Inchi:	InChI=1S/C7H8ClN/c1-5-2-3-6(8)4-7(5)9/h2-4H,9H2,1H3
InchiKey:	WRZOMWDJOLIVQP-UHFFFAOYSA-N
Formula:	C7H8ClN
SMILES:	Cc1ccc(Cl)cc1N
Mol. weight [g/mol]:	141.60
CAS:	95-79-4

Physical Properties

Property code	Value	Unit	Source
gf	155.73	kJ/mol	Joback Method
hf	43.83	kJ/mol	Joback Method
hfus	16.54	kJ/mol	Joback Method
hvap	49.80	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	2.231		Crippen Method
mcvol	107.950	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
rinpol	1261.50		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1261.50		NIST Webbook
ripol	2145.00		NIST Webbook
ripol	2145.00		NIST Webbook
ripol	2145.00		NIST Webbook
tb	510.20	K	NIST Webbook
tc	741.33	K	Joback Method
tf	333.29	K	Joback Method
vc	0.398	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.08	J/mol×K	506.16	Joback Method
cpg	221.33	J/mol×K	545.35	Joback Method
cpg	230.94	J/mol×K	584.55	Joback Method
cpg	239.95	J/mol×K	623.74	Joback Method
cpg	248.37	J/mol×K	662.94	Joback Method
cpg	256.22	J/mol×K	702.13	Joback Method
cpg	263.54	J/mol×K	741.33	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	510.20	K	96.30	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C95794&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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