Benzenamine, 4-chloro-2-methyl-

Other names:	o-Toluidine, 4-chloro-
	p-Chloro-o-toluidine
	Daito Red Base TR
	Fast Red Base TR
	Fast Red TR Base
	Fast Red TRO Base
	Fast Red 5CT Base
	Kako Red TR Base
	Mitsui Red TR Base
	Red Base NTR
	Red TR base
	Sanyo Fast Red TR Base
	2-Amino-5-chlorotoluene
	2-Methyl-4-chloroaniline
	4-Chloro-o-toluidine
	4-Chloro-2-methylaniline
	4-Chloro-2-methylbenzeneamine
	4-Chloro-2-toluidine
	4-Chloro-6-methylaniline
	Amarthol Fast Red TR Base
	Azoene Fast Red TR Base
	Azoic diazo component 11, base
	Brentamine Fast Red TR Base
	Deval Red K
	Deval Red TR
	Diazo Fast Red TRA
	Fast Red TR11
	Fast Red TR
	Kambamine Red TR
	Red Base Ciba IX
	Red Base Irga IX
	Tulabase Fast Red TR
	3-Chloro-6-aminotoluene
	5-Chloro-2-aminotoluene
	Fast Red TR-T Base
	NSC 4979
Inchi:	InChI=1S/C7H8ClN/c1-5-4-6(8)2-3-7(5)9/h2-4H,9H2,1H3
InchiKey:	CXNVOWPRHWWCQR-UHFFFAOYSA-N
Formula:	C7H8ClN
SMILES:	Cc1cc(Cl)ccc1N

Mol. weight [g/mol]: 141.60
CAS: 95-69-2

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	1247.30		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
ripol	2155.00		NIST Webbook
ripol	2155.00		NIST Webbook
tb	514.20	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

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=C95692&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume