

Benzenamine, 2-chloro-6-methyl-

Other names:	o-Toluidine, 6-chloro- 2-Amino-3-chlorotoluene 2-Chloro-6-methylaniline 2-Methyl-6-chloroaniline 3-Chloro-2-aminotoluene 6-Chloro-o-toluidine 6-Chloro-o-toluidine (NH2=1) 6-Chloro-2-toluidine 6-Chloro-2-methylaniline NSC 6012 (2-Chloro-6-methylphenyl)amine 6-Chloro-o-toluidine
Inchi:	InChI=1S/C7H8ClN/c1-5-3-2-4-6(8)7(5)9/h2-4H,9H2,1H3
InchiKey:	WFNLHDJJZSJARK-UHFFFAOYSA-N
Formula:	C7H8ClN
SMILES:	Cc1cccc(Cl)c1N
Mol. weight [g/mol]:	141.60
CAS:	87-63-8

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	1249.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1249.00		NIST Webbook
ripol	2127.00		NIST Webbook
ripol	2127.00		NIST Webbook
tb	488.20	K	NIST Webbook
tc	741.33	K	Joback Method
tf	333.29	K	Joback Method

vc	0.398	m3/kmol	Joback Method
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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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C87638&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

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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