

4-Chloro-3-methylaniline

Other names:	Benzenamine, 4-chloro-3-methyl- 3-Methyl-4-chloroaniline 4-Chloro-3-methylaniline 5-Amino-2-chlorotoluene
Inchi:	InChI=1S/C7H8ClN/c1-5-4-6(9)2-3-7(5)8/h2-4H,9H2,1H3
InchiKey:	HIHCTGNZNHSZPP-UHFFFAOYSA-N
Formula:	C7H8ClN
SMILES:	Cc1cc(N)ccc1Cl
Mol. weight [g/mol]:	141.60

Physical Properties

Property code	Value	Unit	Source
hf	13.69	kJ/mol	Cheméo Relay (1.0)
hfus	16.54	kJ/mol	Joback Method
hvap	61.22	kJ/mol	Cheméo Relay (1.0)
ie	7.80	eV	Cheméo Relay (1.0)
log10ws	-2.07		Cheméo Relay (1.0)
logp	2.231		Crippen Method
mcvol	107.950	ml/mol	McGowan Method
tb	516.26	K	Cheméo Relay (1.0)
tf	331.91	K	Cheméo Relay (1.0)

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

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7149759&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/36-255-9/4-Chloro-3-methylaniline.pdf>

Generated by Cheméo on 2026-07-21 14:57:17.524801956 +0000 UTC m=+156933.366687324.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.