

# 4-Bromo-3-chloroaniline

<b>Other names:</b>	Benzenamine, 4-bromo-3-chloro- Aniline, 4-bromo-3-chloro
<b>Inchi:</b>	InChI=1S/C6H5BrClN/c7-5-2-1-4(9)3-6(5)8/h1-3H,9H2
<b>InchiKey:</b>	QLYHPNUFNZJXOQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H5BrClN
<b>SMILES:</b>	Nc1ccc(Br)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	206.47
<b>CAS:</b>	21402-26-6

## Physical Properties

Property code	Value	Unit	Source
gf	161.63	kJ/mol	Joback Method
hf	90.80	kJ/mol	Joback Method
hfus	19.24	kJ/mol	Joback Method
hvap	54.01	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.685		Crippen Method
mvol	111.360	ml/mol	McGowan Method
pc	5073.01	kPa	Joback Method
rinpol	1468.00		NIST Webbook
tb	549.44	K	Joback Method
tc	805.41	K	Joback Method
tf	381.82	K	Joback Method
vc	0.404	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	198.79	J/molxK	549.44	Joback Method
cpg	206.83	J/molxK	592.10	Joback Method
cpg	214.23	J/molxK	634.76	Joback Method
cpg	221.04	J/molxK	677.42	Joback Method
cpg	227.30	J/molxK	720.08	Joback Method
cpg	233.04	J/molxK	762.74	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C21402266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21402266&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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