

# 2-Bromo-4-chloroaniline

<b>Other names:</b>	Benzenamine, 2-bromo-4-chloro-
<b>Inchi:</b>	InChI=1S/C6H5BrClN/c7-5-3-4(8)1-2-6(5)9/h1-3H,9H2
<b>InchiKey:</b>	SYTBIFURTZACKR-UHFFFAOYSA-N
<b>Formula:</b>	C6H5BrClN
<b>SMILES:</b>	Nc1ccc(Cl)cc1Br
<b>Mol. weight [g/mol]:</b>	206.47
<b>CAS:</b>	873-38-1

## 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
mcvol	111.360	ml/mol	McGowan Method
pc	5073.01	kPa	Joback Method
rinpol	1371.00		NIST Webbook
rinpol	1371.00		NIST Webbook
tb	549.44	K	Joback Method
tc	805.41	K	Joback Method
tf	342.00	K	NIST Webbook
vc	0.404	m3/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

cpg

238.31

J/mol×K

805.41

Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	400.00	K	2.70	NIST Webbook

## Sources

<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=C873381&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C873381&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>h vap:</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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