

# 1-Bromo-4-chloro-2-fluorobenzene

<b>Inchi:</b>	InChI=1S/C6H3BrClF/c7-5-2-1-4(8)3-6(5)9/h1-3H
<b>InchiKey:</b>	FPNVMCMDWZNTEU-UHFFFAOYSA-N
<b>Formula:</b>	C6H3BrClF
<b>SMILES:</b>	Fc1cc(Cl)ccc1Br
<b>Mol. weight [g/mol]:</b>	209.44
<b>CAS:</b>	1996-29-8

## Physical Properties

Property code	Value	Unit	Source
gf	-99.63	kJ/mol	Joback Method
hf	-139.10	kJ/mol	Joback Method
hfus	17.12	kJ/mol	Joback Method
hvap	42.55	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.242		Crippen Method
mcvol	103.150	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
tb	476.18	K	Joback Method
tc	708.25	K	Joback Method
tf	299.15	K	Joback Method
vc	0.393	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	164.66	J/mol×K	476.18	Joback Method
cpg	172.00	J/mol×K	514.86	Joback Method
cpg	178.82	J/mol×K	553.54	Joback Method
cpg	185.13	J/mol×K	592.22	Joback Method
cpg	190.97	J/mol×K	630.90	Joback Method
cpg	196.37	J/mol×K	669.57	Joback Method
cpg	201.36	J/mol×K	708.25	Joback Method

# 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=C1996298&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1996298&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>
<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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/91-837-2/1-Bromo-4-chloro-2-fluorobenzene.pdf>

Generated by Cheméo on 2024-04-20 13:25:29.937568955 +0000 UTC m=+15908778.858146266.

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