

# 4-Bromo-2-fluoroaniline

<b>Other names:</b>	Benzenamine, 4-bromo-2-fluoro-
<b>Inchi:</b>	InChI=1S/C6H5BrFN/c7-4-1-2-6(9)5(8)3-4/h1-3H,9H2
<b>InchiKey:</b>	GZRMNMGWNKSANY-UHFFFAOYSA-N
<b>Formula:</b>	C6H5BrFN
<b>SMILES:</b>	Nc1ccc(Br)cc1F
<b>Mol. weight [g/mol]:</b>	190.01
<b>CAS:</b>	367-24-8

## Physical Properties

Property code	Value	Unit	Source
gf	-21.25	kJ/mol	Joback Method
hf	-89.57	kJ/mol	Joback Method
hfus	18.12	kJ/mol	Joback Method
hvap	48.81	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.170		Crippen Method
mcvol	100.890	ml/mol	McGowan Method
pc	5015.69	kPa	Joback Method
tb	511.28	K	Joback Method
tc	748.98	K	Joback Method
tf	352.49	K	Joback Method
vc	0.372	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.37	J/mol×K	511.28	Joback Method
cpg	195.68	J/mol×K	550.90	Joback Method
cpg	203.39	J/mol×K	590.51	Joback Method
cpg	210.55	J/mol×K	630.13	Joback Method
cpg	217.18	J/mol×K	669.75	Joback Method
cpg	223.32	J/mol×K	709.37	Joback Method
cpg	229.00	J/mol×K	748.98	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C367248&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C367248&amp;Units=SI</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>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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