

# 2-Fluoro-4-bromobenzaldehyde

<b>Other names:</b>	4-Bromo-2-fluorobenzaldehyde Benzaldehyde, 4-bromo-2-fluoro-
<b>Inchi:</b>	InChI=1S/C7H4BrFO/c8-6-2-1-5(4-10)7(9)3-6/h1-4H
<b>InchiKey:</b>	UPCARQPLANFGQJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H4BrFO
<b>SMILES:</b>	O=Cc1ccc(Br)cc1F
<b>Mol. weight [g/mol]:</b>	203.01
<b>CAS:</b>	57848-46-1

## Physical Properties

Property code	Value	Unit	Source
gf	-178.80	kJ/mol	Joback Method
hf	-229.58	kJ/mol	Joback Method
hfus	17.80	kJ/mol	Joback Method
hvap	47.11	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.401		Crippen Method
mvol	106.570	ml/mol	McGowan Method
pc	4498.26	kPa	Joback Method
tb	510.29	K	Joback Method
tc	736.98	K	Joback Method
tf	322.50	K	Joback Method
vc	0.416	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.83	J/molxK	510.29	Joback Method
cpg	201.87	J/molxK	548.07	Joback Method
cpg	209.35	J/molxK	585.85	Joback Method
cpg	216.30	J/molxK	623.63	Joback Method
cpg	222.76	J/molxK	661.42	Joback Method
cpg	228.74	J/molxK	699.20	Joback Method
cpg	234.28	J/molxK	736.98	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=C57848461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57848461&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>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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