

# 1-Chloro-2,6-dibromo-4-fluorobenzene

<b>Other names:</b>	Benzene, 1,3-dibromo-2-chloro-5-fluoro-
<b>Inchi:</b>	InChI=1S/C6H2Br2ClF/c7-4-1-3(10)2-5(8)6(4)9/h1-2H
<b>InchiKey:</b>	PZKDJJMHRYNBOR-UHFFFAOYSA-N
<b>Formula:</b>	C6H2Br2ClF
<b>SMILES:</b>	Fc1cc(Br)c(Cl)c(Br)c1
<b>Mol. weight [g/mol]:</b>	288.34
<b>CAS:</b>	179897-90-6

## Physical Properties

Property code	Value	Unit	Source
gf	-94.94	kJ/mol	Joback Method
hf	-124.24	kJ/mol	Joback Method
hfus	22.02	kJ/mol	Joback Method
hvap	49.65	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.004		Crippen Method
mcvol	120.650	ml/mol	McGowan Method
pc	4743.15	kPa	Joback Method
tb	547.32	K	Joback Method
tc	797.03	K	Joback Method
tf	371.47	K	Joback Method
vc	0.455	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	188.79	J/mol×K	547.32	Joback Method
cpg	194.93	J/mol×K	588.94	Joback Method
cpg	200.55	J/mol×K	630.56	Joback Method
cpg	205.72	J/mol×K	672.17	Joback Method
cpg	210.45	J/mol×K	713.79	Joback Method
cpg	214.80	J/mol×K	755.41	Joback Method
cpg	218.80	J/mol×K	797.03	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C179897906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C179897906&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>
<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>

# 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>hvp:</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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