

# 1-Bromo-2,3,4,6-tetrafluorobenzene

<b>Other names:</b>	Benzene, 2-bromo-1,3,4,5-tetrafluoro- 2-bromo-1,3,4,5-tetrafluorobenzene
<b>Inchi:</b>	InChI=1S/C6HBrF4/c7-4-2(8)1-3(9)5(10)6(4)11/h1H
<b>InchiKey:</b>	AHJRONLVHNFUNH-UHFFFAOYSA-N
<b>Formula:</b>	C6HBrF4
<b>SMILES:</b>	Fc1cc(F)c(Br)c(F)c1F
<b>Mol. weight [g/mol]:</b>	228.97
<b>CAS:</b>	1559-86-0

## Physical Properties

Property code	Value	Unit	Source
gf	-691.39	kJ/mol	Joback Method
hf	-734.63	kJ/mol	Joback Method
hfus	21.39	kJ/mol	Joback Method
hvap	37.04	kJ/mol	Joback Method
ie	9.46 ± 0.02	eV	NIST Webbook
log10ws	-3.96		Crippen Method
logp	3.006		Crippen Method
mcvol	96.220	ml/mol	McGowan Method
pc	3745.38	kPa	Joback Method
tb	415.20	K	NIST Webbook
tc	639.98	K	Joback Method
tf	296.04	K	Joback Method
vc	0.398	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	169.51	J/molxK	446.52	Joback Method
cpg	175.39	J/molxK	478.76	Joback Method
cpg	180.97	J/molxK	511.01	Joback Method
cpg	186.26	J/molxK	543.25	Joback Method
cpg	191.28	J/molxK	575.49	Joback Method
cpg	196.03	J/molxK	607.73	Joback Method

## Sources

<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=C1559860&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1559860&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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>ie:</b>	Ionization energy
<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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