

# 1-Bromo-1,1,2,2-tetrafluoroethane

<b>Inchi:</b>	InChI=1S/C2HBrF4/c3-2(6,7)1(4)5/h1H
<b>InchiKey:</b>	MVVYPRYEJILXPT-UHFFFAOYSA-N
<b>Formula:</b>	C2HBrF4
<b>SMILES:</b>	FC(F)C(F)(F)Br
<b>Mol. weight [g/mol]:</b>	180.93
<b>CAS:</b>	354-07-4

## Physical Properties

Property code	Value	Unit	Source
gf	-798.56	kJ/mol	Joback Method
hf	-856.75	kJ/mol	Joback Method
hfus	7.60	kJ/mol	Joback Method
hvap	21.53	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.239		Crippen Method
mcvol	63.620	ml/mol	McGowan Method
pc	4480.21	kPa	Joback Method
tb	304.73	K	Joback Method
tc	464.92	K	Joback Method
tf	161.88	K	Joback Method
vc	0.265	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	99.79	J/molxK	304.73	Joback Method
cpg	105.16	J/molxK	331.43	Joback Method
cpg	110.16	J/molxK	358.13	Joback Method
cpg	114.81	J/molxK	384.83	Joback Method
cpg	119.12	J/molxK	411.52	Joback Method
cpg	123.12	J/molxK	438.22	Joback Method
cpg	126.81	J/molxK	464.92	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C354074&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C354074&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>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

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