

# 1-Bromo-1,1,2,3,3,3-hexafluoropropane

<b>Inchi:</b>	InChI=1S/C3HBrF6/c4-2(6,7)1(5)3(8,9)10/h1H
<b>InchiKey:</b>	UBSZSCBAJXCXOO-UHFFFAOYSA-N
<b>Formula:</b>	C3HBrF6
<b>SMILES:</b>	FC(C(F)(F)F)C(F)(F)Br
<b>Mol. weight [g/mol]:</b>	230.93
<b>CAS:</b>	2252-78-0

## Physical Properties

Property code	Value	Unit	Source
gf	-1176.92	kJ/mol	Joback Method
hf	-1278.36	kJ/mol	Joback Method
hfus	8.94	kJ/mol	Joback Method
hvap	20.82	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.875		Crippen Method
mcvol	81.250	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
tb	308.60	K	NIST Webbook
tc	476.41	K	Joback Method
tf	176.75	K	Joback Method
vc	0.345	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	145.40	J/molxK	322.92	Joback Method
cpg	152.94	J/molxK	348.50	Joback Method
cpg	159.93	J/molxK	374.08	Joback Method
cpg	166.42	J/molxK	399.66	Joback Method
cpg	172.42	J/molxK	425.24	Joback Method
cpg	177.95	J/molxK	450.82	Joback Method
cpg	183.03	J/molxK	476.41	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=C2252780&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2252780&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.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>

# 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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