

# 1,2-Dibromohexafluoropropane

<b>Other names:</b>	Propane, 1,2-dibromo-1,1,2,3,3,3-hexafluoro- 1,2-Dibromo-1,1,2,3,3,3-hexafluoropropane
<b>Inchi:</b>	InChI=1S/C3Br2F6/c4-1(6,2(5,7)8)3(9,10)11
<b>InchiKey:</b>	KTULQNFKNLFOHL-UHFFFAOYSA-N
<b>Formula:</b>	C3Br2F6
<b>SMILES:</b>	FC(F)(F)C(F)(Br)C(F)(F)Br
<b>Mol. weight [g/mol]:</b>	309.83
<b>CAS:</b>	661-95-0

## Physical Properties

Property code	Value	Unit	Source
gf	-1157.32	kJ/mol	Joback Method
hf	-1255.50	kJ/mol	Joback Method
hfus	10.33	kJ/mol	Joback Method
hvap	26.35	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	3.597		Crippen Method
mvol	98.750	ml/mol	McGowan Method
pc	4000.70	kPa	Joback Method
tb	345.90	K	NIST Webbook
tc	567.66	K	Joback Method
tf	253.97	K	Joback Method
vc	0.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	179.89	J/molxK	386.29	Joback Method
cpg	187.73	J/molxK	416.52	Joback Method
cpg	194.72	J/molxK	446.75	Joback Method
cpg	200.91	J/molxK	476.97	Joback Method
cpg	206.35	J/molxK	507.20	Joback Method
cpg	211.11	J/molxK	537.43	Joback Method
cpg	215.24	J/molxK	567.66	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	344.20	K	97.90	NIST Webbook

## 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=C661950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C661950&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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