

# Butane, 1,1,2,3,4,4-hexachloro-1,2,3,4-tetrafluoro-

Other names:	1,1,2,3,4,4-Hexachloro-1,2,3,4-tetrafluorobutane Butane, 1,1,2,3,4,4-hexachloro-tetrafluoro-
Inchi:	InChI=1S/C4Cl6F4/c5-1(11,3(7,8)13)2(6,12)4(9,10)14
InchiKey:	WWVUFVKMWDUBV-UHFFFAOYSA-N
Formula:	C4Cl6F4
SMILES:	FC(Cl)(Cl)C(F)(Cl)C(F)(Cl)C(F)(Cl)Cl
Mol. weight [g/mol]:	336.75
CAS:	375-43-9

## Physical Properties

Property code	Value	Unit	Source
gf	-856.66	kJ/mol	Joback Method
hf	-1039.77	kJ/mol	Joback Method
hfus	13.96	kJ/mol	Joback Method
hvap	42.36	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.997		Crippen Method
mcvol	147.740	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
tb	499.66	K	Joback Method
tc	718.43	K	Joback Method
tf	326.40	K	Joback Method
vc	0.582	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.30	J/mol×K	499.66	Joback Method
cpg	280.23	J/mol×K	536.12	Joback Method
cpg	286.03	J/mol×K	572.58	Joback Method
cpg	290.82	J/mol×K	609.04	Joback Method
cpg	294.70	J/mol×K	645.50	Joback Method
cpg	297.81	J/mol×K	681.96	Joback Method
cpg	300.26	J/mol×K	718.43	Joback Method

# Sources

<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=C375439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C375439&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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