

# 2-Butene, 2-chloro-1,1,1,4,4,4-hexafluoro-

<b>Other names:</b>	2-Chloro-1,1,1,4,4,4-hexafluorobutene-2 CHFB 1,1,1,4,4,4-Hexafluoro-2-chloro-2-butene 1,1,1,4,4,4-Hexafluoro-2-chlorobut-2-ene 2-Chloro-1,1,1,4,4,4-hexafluoro-2-butene
<b>Inchi:</b>	InChI=1S/C4HCIF6/c5-2(4(9,10)11)1-3(6,7)8/h1H/b2-1-
<b>InchiKey:</b>	JRENXZBKMHPULY-UPHR SURJSA-N
<b>Formula:</b>	C4HCIF6
<b>SMILES:</b>	FC(F)(F)C=C(Cl)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	198.49
<b>CAS:</b>	400-44-2

## Physical Properties

Property code	Value	Unit	Source
gf	-1120.64	kJ/mol	Joback Method
hf	-1228.36	kJ/mol	Joback Method
h <sub>fus</sub>	12.86	kJ/mol	Joback Method
h <sub>vap</sub>	21.43	kJ/mol	Joback Method
log <sub>10</sub> ws	-3.32		Crippen Method
logp	3.234		Crippen Method
m <sub>cvol</sub>	85.780	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	306.50 ± 0.50	K	NIST Webbook
tc	471.60	K	Joback Method
tf	154.10	K	Joback Method
vc	0.376	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
c <sub>pg</sub>	153.83	J/mol×K	321.55	Joback Method
c <sub>pg</sub>	162.03	J/mol×K	346.56	Joback Method
c <sub>pg</sub>	169.66	J/mol×K	371.57	Joback Method
c <sub>pg</sub>	176.74	J/mol×K	396.58	Joback Method

cpg	183.30	J/mol×K	421.59	Joback Method
cpg	189.36	J/mol×K	446.59	Joback Method
cpg	194.94	J/mol×K	471.60	Joback Method

## Sources

<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=C400442&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C400442&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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