

# 1,2-dichloro-3,3,4,4,5,5,6,6-octafluorocyclohexene

<b>Inchi:</b>	InChI=1S/C6Cl2F8/c7-1-2(8)4(11,12)6(15,16)5(13,14)3(1,9)10
<b>InchiKey:</b>	BICOGOBTBGYGF A-UHFFFAOYSA-N
<b>Formula:</b>	C6Cl2F8
<b>SMILES:</b>	FC1(F)C(Cl)=C(Cl)C(F)(F)C(F)(F)C1(F)F
<b>Mol. weight [g/mol]:</b>	294.96
<b>CAS:</b>	336-19-6

## Physical Properties

Property code	Value	Unit	Source
gf	-1592.64	kJ/mol	Joback Method
hf	-1678.43	kJ/mol	Joback Method
hfus	14.63	kJ/mol	Joback Method
hvap	27.70	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.230		Crippen Method
mcvol	118.880	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
tb	386.00	K	NIST Webbook
tc	593.68	K	Joback Method
tf	338.00	K	Joback Method
vc	0.521	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	252.07	J/mol×K	421.32	Joback Method
cpg	261.54	J/mol×K	450.05	Joback Method
cpg	269.76	J/mol×K	478.77	Joback Method
cpg	276.89	J/mol×K	507.50	Joback Method
cpg	283.10	J/mol×K	536.22	Joback Method
cpg	288.57	J/mol×K	564.95	Joback Method
cpg	293.46	J/mol×K	593.68	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=C336196&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C336196&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>
<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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