

# Bicyclo[2.2.0]hexa-2,5-diene,1,2,3,4,5,6-hexafluoro

<b>Other names:</b>	Perfluorobicyclo[2.2.0]hexa-2,5-diene Hexafluorobicyclo[2.2.0]hexa-2,5-diene Dewar hexafluorobenzene Bicyclo[2.2.0]hexa-2,5-diene, hexafluoro-
<b>Inchi:</b>	InChI=1S/C6F6/c7-1-2(8)6(12)4(10)3(9)5(1,6)11
<b>InchiKey:</b>	NYGMLGNCZOOGFI-UHFFFAOYSA-N
<b>Formula:</b>	C6F6
<b>SMILES:</b>	FC1=C(F)C2(F)C(F)=C(F)C12F
<b>Mol. weight [g/mol]:</b>	186.05
<b>CAS:</b>	6733-01-3

## Physical Properties

Property code	Value	Unit	Source
gf	-1037.30	kJ/mol	Joback Method
hf	-1098.07	kJ/mol	Joback Method
hfus	14.34	kJ/mol	Joback Method
hvap	24.80	kJ/mol	Joback Method
ie	10.08 ± 0.05	eV	NIST Webbook
ie	10.40	eV	NIST Webbook
ie	10.40 ± 0.10	eV	NIST Webbook
log10ws	-3.16		Crippen Method
logp	2.731		Crippen Method
mcvol	75.700	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
tb	364.50	K	Joback Method
tc	525.14	K	Joback Method
tf	296.20	K	Joback Method
vc	0.361	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	160.76	J/mol×K	364.50	Joback Method
cpg	168.86	J/mol×K	391.27	Joback Method

cpg	176.00	J/mol×K	418.05	Joback Method
cpg	182.26	J/mol×K	444.82	Joback Method
cpg	187.73	J/mol×K	471.60	Joback Method
cpg	192.50	J/mol×K	498.37	Joback Method
cpg	196.67	J/mol×K	525.14	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=C6733013&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6733013&amp;Units=SI</a>
<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>

## 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>ie:</b>	Ionization energy
<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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