

# 4,4-Difluorocyclopentene

<b>Inchi:</b>	InChI=1S/C5H6F2/c6-5(7)3-1-2-4-5/h1-2H,3-4H2
<b>InchiKey:</b>	VHNNSNNVWSXSQQ-UHFFFAOYSA-N
<b>Formula:</b>	C5H6F2
<b>SMILES:</b>	FC1(F)CC=CC1
<b>Mol. weight [g/mol]:</b>	104.10
<b>CAS:</b>	77613-68-4

## Physical Properties

Property code	Value	Unit	Source
gf	-337.38	kJ/mol	Joback Method
hf	-405.25	kJ/mol	Joback Method
hfus	3.72	kJ/mol	Joback Method
hvap	24.49	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.972		Crippen Method
mcvol	69.690	ml/mol	McGowan Method
pc	4288.66	kPa	Joback Method
tb	327.02	K	Joback Method
tc	510.44	K	Joback Method
tf	182.85	K	Joback Method
vc	0.277	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	107.10	J/molxK	327.02	Joback Method
cpg	118.58	J/molxK	357.59	Joback Method
cpg	129.13	J/molxK	388.16	Joback Method
cpg	138.82	J/molxK	418.73	Joback Method
cpg	147.72	J/molxK	449.30	Joback Method
cpg	155.89	J/molxK	479.87	Joback Method
cpg	163.41	J/molxK	510.44	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=C77613684&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C77613684&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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