

# 2-Fluoro-1-methylenecyclopropane

<b>Inchi:</b>	InChI=1S/C4H5F/c1-3-2-4(3)5/h4H,1-2H2
<b>InchiKey:</b>	OTTGHXUYGRDJAF-UHFFFAOYSA-N
<b>Formula:</b>	C4H5F
<b>SMILES:</b>	C=C1CC1F
<b>Mol. weight [g/mol]:</b>	72.08
<b>CAS:</b>	86770-88-9

## Physical Properties

Property code	Value	Unit	Source
gf	-98.18	kJ/mol	Joback Method
hf	-164.96	kJ/mol	Joback Method
hfus	6.17	kJ/mol	Joback Method
hvap	23.75	kJ/mol	Joback Method
log10ws	-1.21		Crippen Method
logp	1.284		Crippen Method
mcvol	53.830	ml/mol	McGowan Method
pc	4456.32	kPa	Joback Method
tb	296.09	K	Joback Method
tc	464.55	K	Joback Method
tf	167.05	K	Joback Method
vc	0.218	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	77.69	J/molxK	296.09	Joback Method
cpg	84.76	J/molxK	324.17	Joback Method
cpg	91.47	J/molxK	352.24	Joback Method
cpg	97.83	J/molxK	380.32	Joback Method
cpg	103.86	J/molxK	408.40	Joback Method
cpg	109.57	J/molxK	436.47	Joback Method
cpg	114.99	J/molxK	464.55	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=C86770889&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C86770889&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>mccvol:</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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