

# Pentachloro fluoro ethane

<b>Inchi:</b>	InChI=1S/C2Cl5F/c3-1(4,5)2(6,7)8
<b>InchiKey:</b>	KQKBWZDTYSQPMD-UHFFFAOYSA-N
<b>Formula:</b>	C2Cl5F
<b>SMILES:</b>	FC(Cl)(Cl)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	220.28
<b>CAS:</b>	354-56-3

## Physical Properties

Property code	Value	Unit	Source
gf	-282.82	kJ/mol	Joback Method
hf	-376.92	kJ/mol	Joback Method
hfus	10.17	kJ/mol	Joback Method
hvap	38.56	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.457		Crippen Method
mcvol	102.010	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	410.50 ± 0.50	K	NIST Webbook
tc	651.65	K	Joback Method
tf	374.00 ± 4.00	K	NIST Webbook
vc	0.389	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	148.54	J/mol×K	425.12	Joback Method
cpg	153.37	J/mol×K	462.87	Joback Method
cpg	157.46	J/mol×K	500.63	Joback Method
cpg	160.88	J/mol×K	538.38	Joback Method
cpg	163.69	J/mol×K	576.14	Joback Method
cpg	165.96	J/mol×K	613.89	Joback Method
cpg	167.76	J/mol×K	651.65	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=C354563&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C354563&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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