

# 1-Propene, 3-chloro-1,1,3,3-tetrafluoro-

<b>Other names:</b>	Propene, 3-chloro-1,1,3,3-tetrafluoro- 3-Chloro-1,1,3,3-tetrafluoro propene
<b>Inchi:</b>	InChI=1S/C3HCIF4/c4-3(7,8)1-2(5)6/h1H
<b>InchiKey:</b>	AYXCWSNLDUYPX-UHFFFAOYSA-N
<b>Formula:</b>	C3HCIF4
<b>SMILES:</b>	FC(F)=CC(F)(F)Cl
<b>Mol. weight [g/mol]:</b>	148.49
<b>CAS:</b>	406-46-2

## Physical Properties

Property code	Value	Unit	Source
gf	-742.28	kJ/mol	Joback Method
hf	-806.75	kJ/mol	Joback Method
hfus	11.52	kJ/mol	Joback Method
hvap	22.13	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.598		Crippen Method
mvol	68.150	ml/mol	McGowan Method
pc	3686.49	kPa	Joback Method
tb	303.36	K	Joback Method
tc	459.81	K	Joback Method
tf	139.23	K	Joback Method
vc	0.294	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	107.73	J/molxK	303.36	Joback Method
cpg	113.88	J/molxK	329.43	Joback Method
cpg	119.61	J/molxK	355.51	Joback Method
cpg	124.94	J/molxK	381.58	Joback Method
cpg	129.89	J/molxK	407.66	Joback Method
cpg	134.47	J/molxK	433.73	Joback Method
cpg	138.71	J/molxK	459.81	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=C406462&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C406462&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>

# 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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