

# N,N,1,1-Tetrafluoro-1-chloromethylamine

<b>Other names:</b>	Difluoro(difluorochloromethyl)amine
<b>Inchi:</b>	InChI=1S/CCIF4N/c2-1(3,4)7(5)6
<b>InchiKey:</b>	NLMHABPAWPTMMR-UHFFFAOYSA-N
<b>Formula:</b>	CCIF4N
<b>SMILES:</b>	FN(F)C(F)(F)Cl
<b>Mol. weight [g/mol]:</b>	137.46
<b>CAS:</b>	13880-71-2

## Physical Properties

Property code	Value	Unit	Source
gf	-720.01	kJ/mol	Joback Method
hf	-805.37	kJ/mol	Joback Method
hfus	10.47	kJ/mol	Joback Method
hvap	19.68	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.847		Crippen Method
mcvol	54.250	ml/mol	McGowan Method
pc	4362.63	kPa	Joback Method
tb	266.00	K	Joback Method
tc	406.98	K	Joback Method
tf	168.20	K	Joback Method
vc	0.220	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	85.42	J/mol×K	266.00	Joback Method
cpg	90.42	J/mol×K	289.50	Joback Method
cpg	95.10	J/mol×K	312.99	Joback Method
cpg	99.49	J/mol×K	336.49	Joback Method
cpg	103.60	J/mol×K	359.99	Joback Method
cpg	107.43	J/mol×K	383.49	Joback Method
cpg	110.99	J/mol×K	406.98	Joback Method
hvapt	26.60	kJ/mol	243.00	NIST Webbook

# Sources

<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>
<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=C13880712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13880712&amp;Units=SI</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>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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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