

# CHF2CH2OH

<b>Other names:</b>	2,2-difluoroethanol Difluoroethanol ethanol, 2,2-difluoro-
<b>Inchi:</b>	InChI=1S/C2H4F2O/c3-2(4)1-5/h2,5H,1H2
<b>InchiKey:</b>	VOGSDFLJZPNWHY-UHFFFAOYSA-N
<b>Formula:</b>	C2H4F2O
<b>SMILES:</b>	OCC(F)F
<b>Mol. weight [g/mol]:</b>	82.05
<b>CAS:</b>	359-13-7

## Physical Properties

Property code	Value	Unit	Source
affp	727.40	kJ/mol	NIST Webbook
basg	697.00	kJ/mol	NIST Webbook
chl	-1028.20	kJ/mol	NIST Webbook
gf	-562.92	kJ/mol	Joback Method
hf	-634.34	kJ/mol	Joback Method
hfus	7.66	kJ/mol	Joback Method
hvap	34.70	kJ/mol	Joback Method
log10ws	-0.24		Crippen Method
logp	0.244		Crippen Method
mcvol	48.450	ml/mol	McGowan Method
pc	5102.04	kPa	Joback Method
rinpol	481.00		NIST Webbook
tb	368.50 ± 0.50	K	NIST Webbook
tb	368.70	K	NIST Webbook
tb	368.50 ± 0.50	K	NIST Webbook
tc	483.57	K	Joback Method
tf	159.30	K	Joback Method
vc	0.197	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	87.38	J/mol×K	335.44	Joback Method
cpg	91.43	J/mol×K	360.13	Joback Method
cpg	95.34	J/mol×K	384.82	Joback Method
cpg	99.11	J/mol×K	409.50	Joback Method
cpg	102.75	J/mol×K	434.19	Joback Method
cpg	106.25	J/mol×K	458.88	Joback Method
cpg	109.62	J/mol×K	483.57	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=C359137&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C359137&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>
<b>Henry's Law Constants of Organic Compounds in Water and n-Octane at T</b>	<a href="https://www.doi.org/10.1021/je900711h">https://www.doi.org/10.1021/je900711h</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>chl:</b>	Standard liquid enthalpy of combustion
<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>rinpol:</b>	Non-polar retention indices
<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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