

# Hypofluorous acid

Inchi:	InChI=1S/FHO/c1-2/h2H
InchiKey:	AQYSYJUIMQTRMV-UHFFFAOYSA-N
Formula:	FHO
SMILES:	OF
Mol. weight [g/mol]:	36.01
CAS:	14034-79-8

## Physical Properties

Property code	Value	Unit	Source
gf	-382.51	kJ/mol	Joback Method
hf	-391.67	kJ/mol	Joback Method
hfus	2.92	kJ/mol	Joback Method
hvap	31.46	kJ/mol	Joback Method
ie	12.71 ± 0.01	eV	NIST Webbook
ie	12.69 ± 0.03	eV	NIST Webbook
ie	12.71 ± 0.01	eV	NIST Webbook
log10ws	0.07		Crippen Method
logp	-0.137		Crippen Method
mcvol	18.500	ml/mol	McGowan Method
pc	7292.66	kPa	Joback Method
tb	290.85	K	Joback Method
tc	441.38	K	Joback Method
tf	156.00 ± 2.00	K	NIST Webbook
vc	0.072	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	26.85	J/mol×K	290.85	Joback Method
cpg	27.78	J/mol×K	315.94	Joback Method
cpg	28.68	J/mol×K	341.03	Joback Method
cpg	29.55	J/mol×K	366.11	Joback Method
cpg	30.41	J/mol×K	391.20	Joback Method
cpg	31.24	J/mol×K	416.29	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=C14034798&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14034798&amp;Units=SI</a>
<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>

## 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>ie:</b>	Ionization energy
<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

Latest version available from:

<https://www.chemeo.com/cid/60-873-6/Hypofluorous-acid.pdf>

Generated by Cheméo on 2024-04-17 03:06:10.392154773 +0000 UTC m=+15612419.312732095.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.