

# 3-Octene-2-thione,5,5,6,6,7,7,8,8-octafluoro-4-hyd

<b>Inchi:</b>	InChI=1S/C8H6F8OS/c1-3(18)2-4(17)6(11,12)8(15,16)7(13,14)5(9)10/h2,5,17H,1H3/b4-
<b>InchiKey:</b>	UUMGMYRXMQZTQL-RQOWECAXSA-N
<b>Formula:</b>	C8H6F8OS
<b>SMILES:</b>	CC(=S)C=C(O)C(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	302.19
<b>CAS:</b>	88566-61-4

## Physical Properties

Property code	Value	Unit	Source
gf	-1484.01	kJ/mol	Joback Method
hf	-1707.16	kJ/mol	Joback Method
hfus	22.93	kJ/mol	Joback Method
hvap	46.04	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.989		Crippen Method
mcvol	151.360	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
tb	532.73	K	Joback Method
tc	693.61	K	Joback Method
tf	252.95	K	Joback Method
vc	0.625	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.19	J/molxK	532.73	Joback Method
cpg	392.35	J/molxK	559.54	Joback Method
cpg	400.74	J/molxK	586.36	Joback Method
cpg	408.42	J/molxK	613.17	Joback Method
cpg	415.45	J/molxK	639.98	Joback Method
cpg	421.89	J/molxK	666.80	Joback Method
cpg	427.80	J/molxK	693.61	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=C88566614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C88566614&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>

# 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>hvac:</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>mccol:</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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