

# Propane, 1-(ethenylsulfinyl)-

<b>Other names:</b>	Propyl ethenyl sulfoxide
<b>Inchi:</b>	InChI=1S/C5H10OS/c1-3-5-7(6)4-2/h4H,2-3,5H2,1H3
<b>InchiKey:</b>	BVMKBCXVDFOVMD-UHFFFAOYSA-N
<b>Formula:</b>	C5H10OS
<b>SMILES:</b>	C=CS(=O)CCC
<b>Mol. weight [g/mol]:</b>	118.20
<b>CAS:</b>	61926-31-6

## Physical Properties

Property code	Value	Unit	Source
gf	-138.65	kJ/mol	Joback Method
hf	-226.84	kJ/mol	Joback Method
hfus	15.18	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	1.289		Crippen Method
mcvol	99.230	ml/mol	McGowan Method
pc	4056.96	kPa	Joback Method
tb	368.76	K	Joback Method
tc	548.54	K	Joback Method
tf	180.83	K	Joback Method
vc	0.387	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.47	J/mol×K	368.76	Joback Method
cpg	176.89	J/mol×K	398.72	Joback Method
cpg	185.96	J/mol×K	428.69	Joback Method
cpg	194.68	J/mol×K	458.65	Joback Method
cpg	203.07	J/mol×K	488.61	Joback Method
cpg	211.11	J/mol×K	518.58	Joback Method
cpg	218.82	J/mol×K	548.54	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=C61926316&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61926316&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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