

# (E) 1-Ethoxy-2-(ethylthio)ethene

<b>Inchi:</b>	InChI=1S/C6H12OS/c1-3-7-5-6-8-4-2/h5-6H,3-4H2,1-2H3/b6-5+
<b>InchiKey:</b>	PGFRDWXAZUFOAF-AATRIKPKSA-N
<b>Formula:</b>	C6H12OS
<b>SMILES:</b>	CCOC=CSCC
<b>Mol. weight [g/mol]:</b>	132.22
<b>CAS:</b>	53715-47-2

## Physical Properties

Property code	Value	Unit	Source
gf	7.98	kJ/mol	Joback Method
hf	-140.30	kJ/mol	Joback Method
hfus	16.82	kJ/mol	Joback Method
hvap	38.14	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.247		Crippen Method
mcvol	113.320	ml/mol	McGowan Method
pc	3295.37	kPa	Joback Method
tb	432.04	K	Joback Method
tc	630.01	K	Joback Method
tf	208.93	K	Joback Method
vc	0.423	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.32	J/mol×K	432.04	Joback Method
cpg	224.18	J/mol×K	465.04	Joback Method
cpg	234.61	J/mol×K	498.03	Joback Method
cpg	244.61	J/mol×K	531.03	Joback Method
cpg	254.18	J/mol×K	564.02	Joback Method
cpg	263.33	J/mol×K	597.02	Joback Method
cpg	272.07	J/mol×K	630.01	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=C53715472&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53715472&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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