

# 2-Chloroethyl vinyl sulfide

<b>Other names:</b>	Ethene, [(2-chloroethyl)thio]-
<b>Inchi:</b>	InChI=1S/C4H7ClS/c1-2-6-4-3-5/h2H,1,3-4H2
<b>InchiKey:</b>	KCCNHHACDJEDCX-UHFFFAOYSA-N
<b>Formula:</b>	C4H7ClS
<b>SMILES:</b>	C=CSCCCI
<b>Mol. weight [g/mol]:</b>	122.62
<b>CAS:</b>	81142-02-1

## Physical Properties

Property code	Value	Unit	Source
gf	91.83	kJ/mol	Joback Method
hf	25.67	kJ/mol	Joback Method
hfus	13.16	kJ/mol	Joback Method
hvap	35.03	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	2.102		Crippen Method
mcvol	91.510	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
rinpol	903.00		NIST Webbook
rinpol	874.00		NIST Webbook
rinpol	903.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	874.00		NIST Webbook
rinpol	874.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	874.00		NIST Webbook
tb	393.81	K	Joback Method
tc	598.20	K	Joback Method
tf	197.40	K	Joback Method
vc	0.344	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

cpg	144.10	J/mol×K	393.81	Joback Method
cpg	151.63	J/mol×K	427.88	Joback Method
cpg	158.81	J/mol×K	461.94	Joback Method
cpg	165.64	J/mol×K	496.01	Joback Method
cpg	172.14	J/mol×K	530.07	Joback Method
cpg	178.31	J/mol×K	564.14	Joback Method
cpg	184.17	J/mol×K	598.20	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=C81142021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C81142021&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>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>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

Latest version available from:

<https://www.chemeo.com/cid/64-886-8/2-Chloroethyl-vinyl-sulfide.pdf>

Generated by Cheméo on 2024-05-02 19:24:08.780190654 +0000 UTC m=+16967097.700767966.

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