

# 2-Chlorovinyl 2-hydroxyethyl sulfide

<b>Inchi:</b>	InChI=1S/C4H7CIOS/c5-1-3-7-4-2-6/h1,3,6H,2,4H2/b3-1+
<b>InchiKey:</b>	YXIDSJSRQIFGOB-HNQUOIGGSA-N
<b>Formula:</b>	C4H7CIOS
<b>SMILES:</b>	OCCSC=CCI
<b>Mol. weight [g/mol]:</b>	138.62

## Physical Properties

Property code	Value	Unit	Source
gf	-52.61	kJ/mol	Joback Method
hf	-134.77	kJ/mol	Joback Method
hfus	18.73	kJ/mol	Joback Method
hvap	52.34	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.422		Crippen Method
mcvol	97.380	ml/mol	McGowan Method
pc	4577.74	kPa	Joback Method
rinpola	1114.00		NIST Webbook
rinpola	1114.00		NIST Webbook
tb	493.47	K	Joback Method
tc	692.24	K	Joback Method
tf	254.90	K	Joback Method
vc	0.361	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	178.31	J/mol×K	493.47	Joback Method
cpg	185.06	J/mol×K	526.60	Joback Method
cpg	191.43	J/mol×K	559.73	Joback Method
cpg	197.44	J/mol×K	592.85	Joback Method
cpg	203.12	J/mol×K	625.98	Joback Method
cpg	208.47	J/mol×K	659.11	Joback Method
cpg	213.51	J/mol×K	692.24	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R502324&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502324&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>
<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>

# 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>hvp:</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>rinp:</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

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