

# Disulfide, methyl 1-propenyl, cis

<b>Other names:</b>	(Z)-propenyl methyl disulfide (Z)-1-propenyl methyl disulfide Methyl (Z)-propenyl disulfide (Z)-propenyl methyl disulphide Methyl 1-propenyl disulphide, cis methyl cis-1-propenyl disulfide
<b>Inchi:</b>	InChI=1S/C4H8S2/c1-3-4-6-5-2/h3-4H,1-2H3/b4-3-
<b>InchiKey:</b>	FUDUFCLRGSEHAJ-ARJAWSKDSA-N
<b>Formula:</b>	C4H8S2
<b>SMILES:</b>	CC=CSSC
<b>Mol. weight [g/mol]:</b>	120.24

## Physical Properties

Property code	Value	Unit	Source
gf	129.26	kJ/mol	Joback Method
hf	75.07	kJ/mol	Joback Method
hfus	14.58	kJ/mol	Joback Method
hvap	38.09	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.531		Crippen Method
mcvol	95.620	ml/mol	McGowan Method
pc	4351.13	kPa	Joback Method
ripol	915.00		NIST Webbook
ripol	915.00		NIST Webbook
ripol	909.70		NIST Webbook
ripol	912.00		NIST Webbook
ripol	920.00		NIST Webbook
ripol	937.00		NIST Webbook
ripol	1250.00		NIST Webbook
ripol	1273.00		NIST Webbook
ripol	1273.00		NIST Webbook
ripol	1261.00		NIST Webbook
ripol	1261.00		NIST Webbook
ripol	1266.00		NIST Webbook
ripol	1267.00		NIST Webbook
ripol	1261.00		NIST Webbook
tb	432.64	K	Joback Method

tc	662.52	K	Joback Method
tf	198.56	K	Joback Method
vc	0.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	159.54	J/mol×K	432.64	Joback Method
cpg	168.42	J/mol×K	470.95	Joback Method
cpg	176.85	J/mol×K	509.27	Joback Method
cpg	184.83	J/mol×K	547.58	Joback Method
cpg	192.36	J/mol×K	585.89	Joback Method
cpg	199.47	J/mol×K	624.20	Joback Method
cpg	206.15	J/mol×K	662.52	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=R237926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R237926&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>rinpol:</b>	Non-polar retention indices

<b>ripol:</b>	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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