

# Methyl 1-propenyl tetrasulfide, (E)-

<b>Other names:</b>	methyl trans-1-propenyl tetrasulfide
<b>Inchi:</b>	InChI=1S/C4H8S4/c1-3-4-6-8-7-5-2/h3-4H,1-2H3/b4-3+
<b>InchiKey:</b>	JVAMVFJAZPOUHO-ONEGZZNKSA-N
<b>Formula:</b>	C4H8S4
<b>SMILES:</b>	CC=CSSSSC
<b>Mol. weight [g/mol]:</b>	184.37

## Physical Properties

Property code	Value	Unit	Source
gf	195.50	kJ/mol	Joback Method
hf	158.81	kJ/mol	Joback Method
hfus	22.84	kJ/mol	Joback Method
hvap	51.72	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	3.828		Crippen Method
mcvol	128.320	ml/mol	McGowan Method
pc	4553.06	kPa	Joback Method
rinpol	1384.00		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1369.00		NIST Webbook
rinpol	1382.00		NIST Webbook
tb	570.20	K	Joback Method
tc	848.86	K	Joback Method
tf	267.36	K	Joback Method
vc	0.456	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.04	J/mol×K	570.20	Joback Method
cpg	248.01	J/mol×K	616.64	Joback Method
cpg	257.26	J/mol×K	663.09	Joback Method
cpg	265.78	J/mol×K	709.53	Joback Method
cpg	273.56	J/mol×K	755.98	Joback Method

cpg	280.56	J/mol×K	802.42	Joback Method
cpg	286.79	J/mol×K	848.86	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R53379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R53379&amp;Units=SI</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>mccvol:</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

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