

# Propyl (E)-1-propenyl tetrasulfide

<b>Other names:</b>	Propyl 1-propenyl tetrasulfide, (E)- E-1-propenyl propyl tetrasulfide Propyl (E)-propenyl tetrasulfide propyl trans-propenyl tetrasulfide
<b>Inchi:</b>	InChI=1S/C6H12S4/c1-3-5-7-9-10-8-6-4-2/h3,5H,4,6H2,1-2H3/b5-3+
<b>InchiKey:</b>	RKTJJCWCBNXCDDQ-HWKANZROSA-N
<b>Formula:</b>	C6H12S4
<b>SMILES:</b>	CC=CSSSSCCC
<b>Mol. weight [g/mol]:</b>	212.42

## Physical Properties

Property code	Value	Unit	Source
gf	212.34	kJ/mol	Joback Method
hf	117.53	kJ/mol	Joback Method
hfus	28.02	kJ/mol	Joback Method
hvap	56.18	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.608		Crippen Method
mcvol	156.500	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method
rinpol	1548.00		NIST Webbook
rinpol	1546.00		NIST Webbook
rinpol	1540.00		NIST Webbook
rinpol	1548.00		NIST Webbook
tb	615.96	K	Joback Method
tc	881.09	K	Joback Method
tf	289.90	K	Joback Method
vc	0.568	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.36	J/mol×K	615.96	Joback Method
cpg	339.74	J/mol×K	660.15	Joback Method

cpg	351.21	J/mol×K	704.34	Joback Method
cpg	361.78	J/mol×K	748.52	Joback Method
cpg	371.45	J/mol×K	792.71	Joback Method
cpg	380.21	J/mol×K	836.90	Joback Method
cpg	388.05	J/mol×K	881.09	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R53468&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R53468&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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