

# Propyl 1-propenyl trisulfide, (Z)-

<b>Other names:</b>	propyl cis-1-propenyl trisulfide (Z)-Propenyl propyl trisulfide Propyl (Z)-1-propenyl trisulfide Propyl 1-propenyl trisulphide, cis
<b>Inchi:</b>	InChI=1S/C6H12S3/c1-3-5-7-9-8-6-4-2/h3,5H,4,6H2,1-2H3/b5-3-
<b>InchiKey:</b>	CKVNYTRYOFXVGM-HYXAFXHYSA-N
<b>Formula:</b>	C6H12S3
<b>SMILES:</b>	CC=CSSSCCC
<b>Mol. weight [g/mol]:</b>	180.35

## Physical Properties

Property code	Value	Unit	Source
gf	179.22	kJ/mol	Joback Method
hf	75.66	kJ/mol	Joback Method
hfus	23.89	kJ/mol	Joback Method
hvap	49.36	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.960		Crippen Method
mcvol	140.150	ml/mol	McGowan Method
pc	3497.14	kPa	Joback Method
rinpol	1304.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1300.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1318.00		NIST Webbook
rinpol	1318.00		NIST Webbook
ripol	1777.00		NIST Webbook
ripol	1777.00		NIST Webbook
tb	547.18	K	Joback Method
tc	792.12	K	Joback Method
tf	255.50	K	Joback Method
vc	0.513	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.26	J/mol×K	547.18	Joback Method
cpg	294.48	J/mol×K	588.00	Joback Method
cpg	305.95	J/mol×K	628.83	Joback Method
cpg	316.70	J/mol×K	669.65	Joback Method
cpg	326.73	J/mol×K	710.47	Joback Method
cpg	336.04	J/mol×K	751.29	Joback Method
cpg	344.66	J/mol×K	792.12	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=R53486&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R53486&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>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>ripol:</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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