

# 3-Methyl-1,2,4-trithiane

<b>Other names:</b>	1,2,4-Trithiane, 3-methyl
<b>Inchi:</b>	InChI=1S/C4H8S3/c1-4-5-2-3-6-7-4/h4H,2-3H2,1H3
<b>InchiKey:</b>	UXPUEXDAOSQIQS-UHFFFAOYSA-N
<b>Formula:</b>	C4H8S3
<b>SMILES:</b>	CC1SCCSS1
<b>Mol. weight [g/mol]:</b>	152.30

## Physical Properties

Property code	Value	Unit	Source
gf	126.83	kJ/mol	Joback Method
hf	64.21	kJ/mol	Joback Method
hfus	8.92	kJ/mol	Joback Method
hvap	42.36	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.461		Crippen Method
mcvol	105.410	ml/mol	McGowan Method
pc	4994.44	kPa	Joback Method
rinpol	1243.00		NIST Webbook
rinpol	1243.00		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1253.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1287.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1266.00		NIST Webbook
ripol	1852.00		NIST Webbook
ripol	1862.00		NIST Webbook
tb	453.96	K	Joback Method
tc	718.89	K	Joback Method
tf	392.57	K	Joback Method
vc	0.331	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.98	J/mol×K	453.96	Joback Method
cpg	199.50	J/mol×K	498.11	Joback Method
cpg	211.14	J/mol×K	542.27	Joback Method
cpg	221.95	J/mol×K	586.42	Joback Method
cpg	231.97	J/mol×K	630.58	Joback Method
cpg	241.23	J/mol×K	674.73	Joback Method
cpg	249.78	J/mol×K	718.89	Joback Method

## Sources

<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=C43040013&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C43040013&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>

## 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>mccvol:</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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