

# 4,6-Dimethyl-[1,2,3]trithiane

<b>Other names:</b>	3,5-dimethyl-1,2,6-trithiane
<b>Inchi:</b>	InChI=1S/C5H10S3/c1-4-3-5(2)7-8-6-4/h4-5H,3H2,1-2H3
<b>InchiKey:</b>	JJKQDZKSTXTCRP-UHFFFAOYSA-N
<b>Formula:</b>	C5H10S3
<b>SMILES:</b>	CC1CC(C)SSS1
<b>Mol. weight [g/mol]:</b>	166.33

## Physical Properties

Property code	Value	Unit	Source
gf	127.54	kJ/mol	Joback Method
hf	23.23	kJ/mol	Joback Method
hfus	12.58	kJ/mol	Joback Method
hvap	44.28	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.197		Crippen Method
mcvol	119.500	ml/mol	McGowan Method
pc	4194.74	kPa	Joback Method
rinpol	1265.00		NIST Webbook
rinpol	1271.00		NIST Webbook
rinpol	1262.00		NIST Webbook
rinpol	1275.00		NIST Webbook
rinpol	1265.00		NIST Webbook
tb	472.17	K	Joback Method
tc	731.77	K	Joback Method
tf	399.60	K	Joback Method
vc	0.386	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.14	J/mol×K	472.17	Joback Method
cpg	242.55	J/mol×K	515.44	Joback Method
cpg	256.04	J/mol×K	558.70	Joback Method
cpg	268.65	J/mol×K	601.97	Joback Method

cpg	280.41	J/mol×K	645.24	Joback Method
cpg	291.33	J/mol×K	688.50	Joback Method
cpg	301.46	J/mol×K	731.77	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=U186039&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U186039&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>mvol:</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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