

# 3,5-dimethyl-1,2,4-trithiane

Inchi:	InChI=1S/C5H10S3/c1-4-3-6-8-5(2)7-4/h4-5H,3H2,1-2H3
InchiKey:	WGYYZGNXEPWBGI-UHFFFAOYSA-N
Formula:	C5H10S3
SMILES:	CC1CSSC(C)S1
Mol. weight [g/mol]:	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	-3.17		Crippen Method
logp	2.849		Crippen Method
mcvol	119.500	ml/mol	McGowan Method
pc	4194.74	kPa	Joback Method
rinpol	1274.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1261.00		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/molxK	472.17	Joback Method
cpg	242.55	J/molxK	515.44	Joback Method
cpg	256.04	J/molxK	558.70	Joback Method
cpg	268.65	J/molxK	601.97	Joback Method
cpg	280.41	J/molxK	645.24	Joback Method
cpg	291.33	J/molxK	688.50	Joback Method
cpg	301.46	J/molxK	731.77	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=R222434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R222434&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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