

# 4,6-dimethyl-1,2,5-trithiepane

<b>Other names:</b>	1,2,5-Trithiepane, 4,6-dimethyl
<b>Inchi:</b>	InChI=1S/C6H12S3/c1-5-3-7-8-4-6(2)9-5/h5-6H,3-4H2,1-2H3
<b>InchiKey:</b>	NALUNDQPIYLHAN-UHFFFAOYSA-N
<b>Formula:</b>	C6H12S3
<b>SMILES:</b>	CC1CSSCC(C)S1
<b>Mol. weight [g/mol]:</b>	180.35

## Physical Properties

Property code	Value	Unit	Source
gf	123.86	kJ/mol	Joback Method
hf	-3.57	kJ/mol	Joback Method
hfus	13.07	kJ/mol	Joback Method
hvap	46.68	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.892		Crippen Method
mcvol	133.590	ml/mol	McGowan Method
pc	3834.03	kPa	Joback Method
rinpol	1442.00		NIST Webbook
rinpol	1442.00		NIST Webbook
rinpol	1454.00		NIST Webbook
tb	499.32	K	Joback Method
tc	764.15	K	Joback Method
tf	407.35	K	Joback Method
vc	0.433	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.66	J/molxK	499.32	Joback Method
cpg	286.52	J/molxK	543.46	Joback Method
cpg	302.30	J/molxK	587.60	Joback Method
cpg	317.02	J/molxK	631.74	Joback Method
cpg	330.71	J/molxK	675.88	Joback Method
cpg	343.38	J/molxK	720.01	Joback Method

## Sources

<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=R82320&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R82320&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>
<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>

## 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>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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