

# 1,3,5-Trithiane, 2,2,4,4,6,6-hexamethyl-

<b>Other names:</b>	s-Trithiane, 2,2,4,4,6,6-hexamethyl-Hexamethyl-s-trithiane Trithioacetone 2,2,4,4,6,6-Hexamethyl-s-trithiane Hexamethyl-1,3,5-trithiane 2,2,4,4,6,6-Hexamethyl-s-trithiane (trithioacetone) 2,2,4,4,6,6-hexamethyl-1,3,5-trithiane
<b>Inchi:</b>	InChI=1S/C9H18S3/c1-7(2)10-8(3,4)12-9(5,6)11-7/h1-6H3
<b>InchiKey:</b>	NBNWHQAWKFYFKI-UHFFFAOYSA-N
<b>Formula:</b>	C9H18S3
<b>SMILES:</b>	CC1(C)SC(C)(C)SC(C)(C)S1
<b>Mol. weight [g/mol]:</b>	222.43
<b>CAS:</b>	828-26-2

## Physical Properties

Property code	Value	Unit	Source
gf	137.04	kJ/mol	Joback Method
hf	-33.95	kJ/mol	Joback Method
hfus	5.12	kJ/mol	Joback Method
hvap	49.42	kJ/mol	Joback Method
ie	7.95 ± 0.05	eV	NIST Webbook
log10ws	-4.96		Crippen Method
logp	4.408		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
tb	559.74	K	Joback Method
tc	832.07	K	Joback Method
tf	512.14	K	Joback Method
vc	0.603	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.52	J/mol×K	559.74	Joback Method

cpg	423.66	J/mol×K	605.13	Joback Method
cpg	440.44	J/mol×K	650.52	Joback Method
cpg	456.40	J/mol×K	695.90	Joback Method
cpg	472.10	J/mol×K	741.29	Joback Method
cpg	488.06	J/mol×K	786.68	Joback Method
cpg	504.84	J/mol×K	832.07	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=C828262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C828262&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>ie:</b>	Ionization energy
<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>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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