

# 2,4,6-Triethyl-1,3,5-trithiane

<b>Inchi:</b>	InChI=1S/C9H18S3/c1-4-7-10-8(5-2)12-9(6-3)11-7/h7-9H,4-6H2,1-3H3
<b>InchiKey:</b>	PHQSYHLEPPMJSU-UHFFFAOYSA-N
<b>Formula:</b>	C9H18S3
<b>SMILES:</b>	CCC1SC(CC)SC(CC)S1
<b>Mol. weight [g/mol]:</b>	222.43

## Physical Properties

Property code	Value	Unit	Source
gf	153.51	kJ/mol	Joback Method
hf	-79.67	kJ/mol	Joback Method
hfus	24.01	kJ/mol	Joback Method
hvap	52.88	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.408		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
ripol	1560.70		NIST Webbook
ripol	2040.00		NIST Webbook
ripol	2040.00		NIST Webbook
tb	559.02	K	Joback Method
tc	798.16	K	Joback Method
tf	440.44	K	Joback Method
vc	0.609	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.76	J/mol×K	559.02	Joback Method
cpg	427.79	J/mol×K	598.88	Joback Method
cpg	445.68	J/mol×K	638.73	Joback Method
cpg	462.47	J/mol×K	678.59	Joback Method
cpg	478.18	J/mol×K	718.44	Joback Method
cpg	492.85	J/mol×K	758.30	Joback Method
cpg	506.50	J/mol×K	798.16	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R494510&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R494510&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>
<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>

# 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>rinpola:</b>	Non-polar retention indices
<b>ripola:</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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