

# 6-Methyl-4,5,8-trithia-1,10-undecadiene

<b>Inchi:</b>	InChI=1S/C9H16S3/c1-4-6-10-8-9(3)12-11-7-5-2/h4-5,9H,1-2,6-8H2,3H3
<b>InchiKey:</b>	NZIHHTYFEJSFCC-UHFFFAOYSA-N
<b>Formula:</b>	C9H16S3
<b>SMILES:</b>	C=CCSCC(C)SSCC=C
<b>Mol. weight [g/mol]:</b>	220.42
<b>CAS:</b>	116664-22-3

## Physical Properties

Property code	Value	Unit	Source
gf	297.50	kJ/mol	Joback Method
hf	142.10	kJ/mol	Joback Method
hfus	25.37	kJ/mol	Joback Method
hvap	54.35	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	3.861		Crippen Method
mcvol	178.120	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1591.00		NIST Webbook
rinpol	1591.00		NIST Webbook
rinpol	1602.70		NIST Webbook
rinpol	1602.70		NIST Webbook
ripol	2213.00		NIST Webbook
ripol	2213.00		NIST Webbook
tb	604.58	K	Joback Method
tc	839.74	K	Joback Method
tf	275.87	K	Joback Method
vc	0.657	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.66	J/mol×K	604.58	Joback Method
cpg	415.21	J/mol×K	643.77	Joback Method
cpg	428.83	J/mol×K	682.97	Joback Method

cpg	441.54	J/mol×K	722.16	Joback Method
cpg	453.35	J/mol×K	761.35	Joback Method
cpg	464.28	J/mol×K	800.55	Joback Method
cpg	474.35	J/mol×K	839.74	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C116664223&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116664223&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>rinpol:</b>	Non-polar retention indices
<b>ripol:</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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