

# 1,2,3,5-Tetrathiane, 4,6-diethyl-, cis-

<b>Inchi:</b>	InChI=1S/C6H12S4/c1-3-5-7-6(4-2)9-10-8-5/h5-6H,3-4H2,1-2H3/t5-,6+
<b>InchiKey:</b>	SBTJQRLWWVYRND-OLQVQODUSA-N
<b>Formula:</b>	C6H12S4
<b>SMILES:</b>	CCC1SSSC(CC)S1
<b>Mol. weight [g/mol]:</b>	212.42
<b>CAS:</b>	137363-91-8

## Physical Properties

Property code	Value	Unit	Source
gf	175.82	kJ/mol	Joback Method
hf	47.85	kJ/mol	Joback Method
hfus	18.83	kJ/mol	Joback Method
hvap	52.32	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.235		Crippen Method
mvol	149.940	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	1605.60		NIST Webbook
rinpol	1605.60		NIST Webbook
tb	542.88	K	Joback Method
tc	811.52	K	Joback Method
tf	494.32	K	Joback Method
vc	0.487	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.29	J/molxK	542.88	Joback Method
cpg	328.74	J/molxK	587.65	Joback Method
cpg	343.12	J/molxK	632.43	Joback Method
cpg	356.47	J/molxK	677.20	Joback Method
cpg	368.82	J/molxK	721.97	Joback Method
cpg	380.23	J/molxK	766.75	Joback Method
cpg	390.74	J/molxK	811.52	Joback Method

# Sources

<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=C137363918&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C137363918&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>

# 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

Latest version available from:

<https://www.cheméo.com/cid/71-706-9/1-2-3-5-Tetrathiane-4-6-diethyl-cis.pdf>

Generated by Cheméo on 2024-04-20 15:47:48.100156975 +0000 UTC m=+15917317.020734287.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.