

# 1,2,4-trithiapentane

Inchi:	InChI=1S/C2H6S3/c1-4-2-5-3/h3H,2H2,1H3
InchiKey:	WALSYGWNKQSQFW-UHFFFAOYSA-N
Formula:	C2H6S3
SMILES:	CSCSS
Mol. weight [g/mol]:	126.26

## Physical Properties

Property code	Value	Unit	Source
gf	61.59	kJ/mol	Joback Method
hf	37.61	kJ/mol	Joback Method
hfus	13.24	kJ/mol	Joback Method
hvap	40.42	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.885		Crippen Method
mcvol	88.090	ml/mol	McGowan Method
pc	5809.41	kPa	Joback Method
rinpol	1076.00		NIST Webbook
rinpol	1076.00		NIST Webbook
tb	445.58	K	Joback Method
tc	698.17	K	Joback Method
tf	217.56	K	Joback Method
vc	0.309	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	140.05	J/mol×K	445.58	Joback Method
cpg	146.81	J/mol×K	487.68	Joback Method
cpg	153.28	J/mol×K	529.78	Joback Method
cpg	159.45	J/mol×K	571.87	Joback Method
cpg	165.29	J/mol×K	613.97	Joback Method
cpg	170.80	J/mol×K	656.07	Joback Method
cpg	175.95	J/mol×K	698.17	Joback Method

# Sources

<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=R226367&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R226367&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>

# 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>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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