

# Hexathiepane

<b>Other names:</b>	1,2,3,4,5,6-Hexathiepane
<b>Inchi:</b>	InChI=1S/CH2S6/c1-2-4-6-7-5-3-1/h1H2
<b>InchiKey:</b>	JMYWPEQXUQGQNF-UHFFFAOYSA-N
<b>Formula:</b>	CH2S6
<b>SMILES:</b>	C1SSSSSS1
<b>Mol. weight [g/mol]:</b>	206.42
<b>CAS:</b>	17233-71-5

## Physical Properties

Property code	Value	Unit	Source
gf	216.76	kJ/mol	Joback Method
hf	276.09	kJ/mol	Joback Method
hfus	8.95	kJ/mol	Joback Method
hvap	53.60	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.932		Crippen Method
mcvol	112.190	ml/mol	McGowan Method
pc	8463.32	kPa	Joback Method
rinpol	1697.00		NIST Webbook
rinpol	1697.00		NIST Webbook
tb	537.75	K	Joback Method
tc	890.03	K	Joback Method
tf	609.83	K	Joback Method
vc	0.293	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	172.84	J/molxK	537.75	Joback Method
cpg	179.86	J/molxK	596.46	Joback Method
cpg	186.02	J/molxK	655.18	Joback Method
cpg	191.42	J/molxK	713.89	Joback Method
cpg	196.12	J/molxK	772.60	Joback Method
cpg	200.19	J/molxK	831.32	Joback Method

## Sources

<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.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=C17233715&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17233715&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>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>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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