

# 4-methyl-3-thia-1-hexene

<b>Other names:</b>	Butane, 2-ethenylthio
<b>Inchi:</b>	InChI=1S/C6H12S/c1-4-6(3)7-5-2/h5-6H,2,4H2,1,3H3
<b>InchiKey:</b>	XJFDZBUNGBVGEV-UHFFFAOYSA-N
<b>Formula:</b>	C6H12S
<b>SMILES:</b>	C=CSC(C)CC
<b>Mol. weight [g/mol]:</b>	116.22

## Physical Properties

Property code	Value	Unit	Source
gf	118.16	kJ/mol	Joback Method
hf	-5.15	kJ/mol	Joback Method
hfus	10.62	kJ/mol	Joback Method
hvap	34.71	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.662		Crippen Method
mcvol	107.450	ml/mol	McGowan Method
pc	3352.86	kPa	Joback Method
rinpol	845.00		NIST Webbook
rinpol	845.00		NIST Webbook
rinpol	845.00		NIST Webbook
tb	401.70	K	Joback Method
tc	599.38	K	Joback Method
tf	175.02	K	Joback Method
vc	0.401	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.61	J/molxK	401.70	Joback Method
cpg	202.77	J/molxK	434.65	Joback Method
cpg	213.45	J/molxK	467.59	Joback Method
cpg	223.65	J/molxK	500.54	Joback Method
cpg	233.39	J/molxK	533.49	Joback Method
cpg	242.67	J/molxK	566.43	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=R144002&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R144002&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>

## 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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