

# 5,5-dimethyl-4-thia-1-hexyne

<b>Other names:</b>	tert.-Butyl propargyl sulfide
<b>Inchi:</b>	InChI=1S/C7H12S/c1-5-6-8-7(2,3)4/h1H,6H2,2-4H3
<b>InchiKey:</b>	SHONSRZOTAXGMU-UHFFFAOYSA-N
<b>Formula:</b>	C7H12S
<b>SMILES:</b>	C#CCSC(C)(C)C
<b>Mol. weight [g/mol]:</b>	128.24

## Physical Properties

Property code	Value	Unit	Source
gf	267.09	kJ/mol	Joback Method
hf	137.21	kJ/mol	Joback Method
hfus	13.58	kJ/mol	Joback Method
hvap	36.56	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.151		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
rinpol	892.00		NIST Webbook
rinpol	892.00		NIST Webbook
tb	415.23	K	Joback Method
tc	630.66	K	Joback Method
tf	252.44	K	Joback Method
vc	0.432	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.19	J/mol×K	415.23	Joback Method
cpg	232.80	J/mol×K	451.14	Joback Method
cpg	244.64	J/mol×K	487.04	Joback Method
cpg	255.73	J/mol×K	522.95	Joback Method
cpg	266.12	J/mol×K	558.85	Joback Method
cpg	275.84	J/mol×K	594.76	Joback Method
cpg	284.93	J/mol×K	630.66	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=R144077&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R144077&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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