

# 4-thia-1-heptyne

<b>Other names:</b>	Propyl propargyl sulfide
<b>Inchi:</b>	InChI=1S/C6H10S/c1-3-5-7-6-4-2/h1H,4-6H2,2H3
<b>InchiKey:</b>	SQQQEZUUYNQZBQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H10S
<b>SMILES:</b>	C#CCSCCC
<b>Mol. weight [g/mol]:</b>	114.21

## Physical Properties

Property code	Value	Unit	Source
gf	255.83	kJ/mol	Joback Method
hf	166.60	kJ/mol	Joback Method
hfus	18.40	kJ/mol	Joback Method
hvap	35.62	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.763		Crippen Method
mcpvol	103.150	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
rinpol	877.00		NIST Webbook
rinpol	877.00		NIST Webbook
rinpol	877.00		NIST Webbook
tb	395.58	K	Joback Method
tc	598.73	K	Joback Method
tf	238.75	K	Joback Method
vc	0.388	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.17	J/mol×K	395.58	Joback Method
cpg	190.90	J/mol×K	429.44	Joback Method
cpg	200.18	J/mol×K	463.30	Joback Method
cpg	209.03	J/mol×K	497.15	Joback Method
cpg	217.47	J/mol×K	531.01	Joback Method
cpg	225.50	J/mol×K	564.87	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=R143990&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R143990&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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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