

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

<b>Other names:</b>	1,1-Dimethylpropyl propargyl sulfide
<b>Inchi:</b>	InChI=1S/C8H14S/c1-5-7-9-8(3,4)6-2/h1H,6-7H2,2-4H3
<b>InchiKey:</b>	KKLPZDFTGDNLOP-UHFFFAOYSA-N
<b>Formula:</b>	C8H14S
<b>SMILES:</b>	C#CCSC(C)(C)CC
<b>Mol. weight [g/mol]:</b>	142.26

## Physical Properties

Property code	Value	Unit	Source
gf	275.51	kJ/mol	Joback Method
hf	116.57	kJ/mol	Joback Method
hfus	16.17	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.541		Crippen Method
mcvol	131.330	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	1010.00		NIST Webbook
rinpol	1010.00		NIST Webbook
tb	438.11	K	Joback Method
tc	650.89	K	Joback Method
tf	263.71	K	Joback Method
vc	0.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.59	J/mol×K	438.11	Joback Method
cpg	273.43	J/mol×K	473.57	Joback Method
cpg	286.44	J/mol×K	509.04	Joback Method
cpg	298.66	J/mol×K	544.50	Joback Method
cpg	310.12	J/mol×K	579.97	Joback Method
cpg	320.88	J/mol×K	615.43	Joback Method
cpg	330.95	J/mol×K	650.89	Joback Method

# Sources

<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>
<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=R144057&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R144057&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>hvp:</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>rinp:</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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