

# 2,2-dimethyl-3-thiaoctane

Inchi:	InChI=1S/C9H20S/c1-5-6-7-8-10-9(2,3)4/h5-8H2,1-4H3
InchiKey:	UXAUXPUBBOWMBI-UHFFFAOYSA-N
Formula:	C9H20S
SMILES:	CCCCCSC(C)(C)C
Mol. weight [g/mol]:	160.32

## Physical Properties

Property code	Value	Unit	Source
gf	60.86	kJ/mol	Joback Method
hf	-195.97	kJ/mol	Joback Method
hfus	15.78	kJ/mol	Joback Method
hvap	41.15	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	3.708		Crippen Method
mcvol	154.020	ml/mol	McGowan Method
pc	2388.85	kPa	Joback Method
rinpol	1076.00		NIST Webbook
rinpol	1076.00		NIST Webbook
rinpol	1073.00		NIST Webbook
rinpol	1073.00		NIST Webbook
tb	470.87	K	Joback Method
tc	666.34	K	Joback Method
tf	228.01	K	Joback Method
vc	0.583	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.03	J/molxK	470.87	Joback Method
cpg	349.22	J/molxK	503.45	Joback Method
cpg	364.59	J/molxK	536.03	Joback Method
cpg	379.17	J/molxK	568.61	Joback Method
cpg	392.98	J/molxK	601.18	Joback Method
cpg	406.07	J/molxK	633.76	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=R155374&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R155374&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>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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