

# 3,5,5-trimethyl-4-thiaheptane

Inchi:	InChI=1S/C9H20S/c1-6-8(3)10-9(4,5)7-2/h8H,6-7H2,1-5H3
InchiKey:	CAUBTWNIPVKWEU-UHFFFAOYSA-N
Formula:	C9H20S
SMILES:	CCC(C)SC(C)(C)CC
Mol. weight [g/mol]:	160.32

## Physical Properties

Property code	Value	Unit	Source
gf	58.42	kJ/mol	Joback Method
hf	-201.25	kJ/mol	Joback Method
hfus	12.26	kJ/mol	Joback Method
hvap	40.76	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.707		Crippen Method
mcvol	154.020	ml/mol	McGowan Method
pc	2407.64	kPa	Joback Method
rinpol	1050.00		NIST Webbook
rinpol	1050.00		NIST Webbook
rinpol	1050.00		NIST Webbook
rinpol	1050.00		NIST Webbook
tb	470.43	K	Joback Method
tc	670.37	K	Joback Method
tf	213.01	K	Joback Method
vc	0.577	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.15	J/molxK	470.43	Joback Method
cpg	349.79	J/molxK	503.75	Joback Method
cpg	365.57	J/molxK	537.08	Joback Method
cpg	380.51	J/molxK	570.40	Joback Method
cpg	394.65	J/molxK	603.72	Joback Method
cpg	408.01	J/molxK	637.04	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R156491&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R156491&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/49-777-6/3-5-5-trimethyl-4-thiaheptane.pdf>

Generated by Cheméo on 2024-04-25 21:00:08.478066775 +0000 UTC m=+16368057.398644090.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.