

# 2,2,6-trimethyl-3,4-dithiaheptane

Inchi:	InChI=1S/C8H18S2/c1-7(2)6-9-10-8(3,4)5/h7H,6H2,1-5H3
InchiKey:	ZVSGZORIEHXCDY-UHFFFAOYSA-N
Formula:	C8H18S2
SMILES:	CC(C)CSSC(C)(C)C
Mol. weight [g/mol]:	178.36

## Physical Properties

Property code	Value	Unit	Source
gf	83.12	kJ/mol	Joback Method
hf	-138.74	kJ/mol	Joback Method
hfus	13.80	kJ/mol	Joback Method
hvap	45.35	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.822		Crippen Method
mvol	156.280	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
rinpol	1159.00		NIST Webbook
rinpol	1159.00		NIST Webbook
tb	516.33	K	Joback Method
tc	740.84	K	Joback Method
tf	236.14	K	Joback Method
vc	0.575	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.19	J/mol×K	516.33	Joback Method
cpg	360.24	J/mol×K	553.75	Joback Method
cpg	375.34	J/mol×K	591.17	Joback Method
cpg	389.53	J/mol×K	628.59	Joback Method
cpg	402.82	J/mol×K	666.00	Joback Method
cpg	415.26	J/mol×K	703.42	Joback Method
cpg	426.87	J/mol×K	740.84	Joback Method

# Sources

<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=R155285&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R155285&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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