

# 2,2,4-Trimethyl-1,3-dithiolane

<b>Inchi:</b>	InChI=1S/C6H12S2/c1-5-4-7-6(2,3)8-5/h5H,4H2,1-3H3
<b>InchiKey:</b>	CRVLTUAGMFKJEA-UHFFFAOYSA-N
<b>Formula:</b>	C6H12S2
<b>SMILES:</b>	CC1CSC(C)(C)S1
<b>Mol. weight [g/mol]:</b>	148.29
<b>CAS:</b>	5862-53-3

## Physical Properties

Property code	Value	Unit	Source
gf	102.71	kJ/mol	Joback Method
hf	-21.27	kJ/mol	Joback Method
hfus	7.32	kJ/mol	Joback Method
hvap	39.37	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.591		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
rinpol	1063.00		NIST Webbook
tb	443.19	K	Joback Method
tc	683.19	K	Joback Method
tf	354.84	K	Joback Method
vc	0.402	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.79	J/molxK	443.19	Joback Method
cpg	242.75	J/molxK	483.19	Joback Method
cpg	256.49	J/molxK	523.19	Joback Method
cpg	269.14	J/molxK	563.19	Joback Method
cpg	280.87	J/molxK	603.19	Joback Method
cpg	291.81	J/molxK	643.19	Joback Method
cpg	302.13	J/molxK	683.19	Joback Method

# Sources

<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=C5862533&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5862533&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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/44-724-9/2-2-4-Trimethyl-1-3-dithiolane.pdf>

Generated by Cheméo on 2024-04-17 20:49:04.122356259 +0000 UTC m=+15676193.042933574.

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