

# 2-Methyl-1,4-dithiane

<b>Other names:</b>	1,4-Dithiane, methyl 1,4-Dithian, methyl
<b>Inchi:</b>	InChI=1S/C5H10S2/c1-5-4-6-2-3-7-5/h5H,2-4H2,1H3
<b>InchiKey:</b>	JMDYHOLGUWKACX-UHFFFAOYSA-N
<b>Formula:</b>	C5H10S2
<b>SMILES:</b>	CC1CSCCS1
<b>Mol. weight [g/mol]:</b>	134.26

## Physical Properties

Property code	Value	Unit	Source
gf	95.39	kJ/mol	Joback Method
hf	-1.69	kJ/mol	Joback Method
hfus	7.85	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.855		Crippen Method
mcvol	103.150	ml/mol	McGowan Method
pc	4414.96	kPa	Joback Method
rinpol	1138.00		NIST Webbook
rinpol	1158.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1158.00		NIST Webbook
rinpol	1100.00		NIST Webbook
tb	429.01	K	Joback Method
tc	672.02	K	Joback Method
tf	320.39	K	Joback Method
vc	0.341	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.03	J/molxK	429.01	Joback Method
cpg	199.05	J/molxK	469.51	Joback Method
cpg	212.21	J/molxK	510.01	Joback Method

cpg	224.55	J/mol×K	550.52	Joback Method
cpg	236.10	J/mol×K	591.02	Joback Method
cpg	246.88	J/mol×K	631.52	Joback Method
cpg	256.93	J/mol×K	672.02	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=R125794&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R125794&amp;Units=SI</a>
<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>

## 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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