

# 2-methyl-2-tetrahydrothiophenethiol

**Inchi:** InChI=1S/C5H10S2/c1-5(6)3-2-4-7-5/h6H,2-4H2,1H3  
**InchiKey:** SVPXVYCUWKYTRA-UHFFFAOYSA-N  
**Formula:** C5H10S2  
**SMILES:** CC1(S)CCCS1  
**Mol. weight [g/mol]:** 134.26

## Physical Properties

Property code	Value	Unit	Source
gf	91.53	kJ/mol	Joback Method
hf	12.93	kJ/mol	Joback Method
hfus	4.04	kJ/mol	Joback Method
hvap	38.38	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.159		Crippen Method
mcvol	103.150	ml/mol	McGowan Method
pc	4994.44	kPa	Joback Method
rinpol	1025.00		NIST Webbook
rinpol	1025.00		NIST Webbook
ripol	1488.00		NIST Webbook
ripol	1488.00		NIST Webbook
tb	440.01	K	Joback Method
tc	695.57	K	Joback Method
tf	300.82	K	Joback Method
vc	0.354	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.31	J/molxK	440.01	Joback Method
cpg	204.11	J/molxK	482.60	Joback Method
cpg	216.56	J/molxK	525.20	Joback Method
cpg	227.86	J/molxK	567.79	Joback Method
cpg	238.19	J/molxK	610.38	Joback Method
cpg	247.73	J/molxK	652.97	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=R169229&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R169229&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>

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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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