

# Thiazole, 4,5-dihydro-2-methyl-

<b>Other names:</b>	2-Thiazoline, 2-methyl- 2-Methyl-«delta»2-thiazoline 2-Methyl-2-thiazoline 2-Methylthiazoline 4,5-Dihydro-2-methylthiazole
<b>Inchi:</b>	InChI=1S/C4H7NS/c1-4-5-2-3-6-4/h2-3H2,1H3
<b>InchiKey:</b>	JUIQOABNSLTJSW-UHFFFAOYSA-N
<b>Formula:</b>	C4H7NS
<b>SMILES:</b>	CC1=NCCS1
<b>Mol. weight [g/mol]:</b>	101.17
<b>CAS:</b>	2346-00-1

## Physical Properties

Property code	Value	Unit	Source
gf	204.03	kJ/mol	Joback Method
hf	117.47	kJ/mol	Joback Method
hfus	8.61	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
log10ws	-0.93		Crippen Method
logp	1.152		Crippen Method
mcvol	78.390	ml/mol	McGowan Method
pc	5304.68	kPa	Joback Method
rinpol	859.00		NIST Webbook
rinpol	880.00		NIST Webbook
rinpol	880.00		NIST Webbook
rinpol	883.00		NIST Webbook
rinpol	876.00		NIST Webbook
rinpol	876.00		NIST Webbook
rinpol	856.00		NIST Webbook
ripol	1312.00		NIST Webbook
ripol	1303.00		NIST Webbook
ripol	1299.00		NIST Webbook
ripol	1292.00		NIST Webbook
tb	418.20	K	NIST Webbook
tc	653.62	K	Joback Method
tf	318.25	K	Joback Method
vc	0.282	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	141.82	J/mol×K	416.54	Joback Method
cpg	152.99	J/mol×K	456.05	Joback Method
cpg	163.53	J/mol×K	495.57	Joback Method
cpg	173.48	J/mol×K	535.08	Joback Method
cpg	182.82	J/mol×K	574.59	Joback Method
cpg	191.59	J/mol×K	614.10	Joback Method
cpg	199.78	J/mol×K	653.62	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=C2346001&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2346001&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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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