

# 4-Methyl-3-thiazoline

<b>Other names:</b>	3-Thiazoline, 4-methyl
<b>Inchi:</b>	InChI=1S/C4H7NS/c1-4-2-6-3-5-4/h2-3H2,1H3
<b>InchiKey:</b>	DTYOLYPNFSSEGO-UHFFFAOYSA-N
<b>Formula:</b>	C4H7NS
<b>SMILES:</b>	CC1=NCSC1
<b>Mol. weight [g/mol]:</b>	101.17

## 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	956.00		NIST Webbook
rinpol	919.00		NIST Webbook
rinpol	919.00		NIST Webbook
rinpol	936.00		NIST Webbook
tb	416.54	K	Joback Method
tc	653.62	K	Joback Method
tf	318.25	K	Joback Method
vc	0.282	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	141.82	J/molxK	416.54	Joback Method
cpg	152.99	J/molxK	456.05	Joback Method
cpg	163.53	J/molxK	495.57	Joback Method
cpg	173.48	J/molxK	535.08	Joback Method
cpg	182.82	J/molxK	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>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>
<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=R182064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R182064&amp;Units=SI</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>hvac:</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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