

# 5-methyl-2-pentyl-3-thiazoline, trans

<b>Inchi:</b>	InChI=1S/C9H17NS/c1-3-4-5-6-9-10-7-8(2)11-9/h7-9H,3-6H2,1-2H3/t8-,9-/m0/s1
<b>InchiKey:</b>	RNXFLBWILWRDA-IUCAKERBSA-N
<b>Formula:</b>	C9H17NS
<b>SMILES:</b>	CCCCC1N=CC(C)S1
<b>Mol. weight [g/mol]:</b>	171.30

## Physical Properties

Property code	Value	Unit	Source
gf	240.34	kJ/mol	Joback Method
hf	-14.94	kJ/mol	Joback Method
hfus	24.09	kJ/mol	Joback Method
hvap	47.89	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.099		Crippen Method
mcvol	148.840	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	1345.00		NIST Webbook
tb	516.62	K	Joback Method
tc	733.72	K	Joback Method
tf	353.60	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.65	J/mol×K	516.62	Joback Method
cpg	371.94	J/mol×K	552.80	Joback Method
cpg	389.27	J/mol×K	588.99	Joback Method
cpg	405.64	J/mol×K	625.17	Joback Method
cpg	421.08	J/mol×K	661.35	Joback Method
cpg	435.60	J/mol×K	697.54	Joback Method
cpg	449.22	J/mol×K	733.72	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R498394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R498394&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>h vap:</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>m cvol:</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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