

# 5-ethyl-4-methyl-2-nonyl-3-thiazoline, trans

<b>Inchi:</b>	InChI=1S/C15H29NS/c1-4-6-7-8-9-10-11-12-15-16-13(3)14(5-2)17-15/h14-15H,4-12H2,1
<b>InchiKey:</b>	GZHOXBSJJHEWGW-GJZGRUSLSA-N
<b>Formula:</b>	C15H29NS
<b>SMILES:</b>	CCCCCCCCC1N=C(C)C(CC)S1
<b>Mol. weight [g/mol]:</b>	255.46

## Physical Properties

Property code	Value	Unit	Source
gf	281.23	kJ/mol	Joback Method
hf	-150.25	kJ/mol	Joback Method
hfus	39.24	kJ/mol	Joback Method
hvap	61.91	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	5.439		Crippen Method
mcvol	233.380	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
rinsol	1920.00		NIST Webbook
tb	658.88	K	Joback Method
tc	857.96	K	Joback Method
tf	433.74	K	Joback Method
vc	0.896	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.98	J/mol×K	658.88	Joback Method
cpg	686.81	J/mol×K	692.06	Joback Method
cpg	706.52	J/mol×K	725.24	Joback Method
cpg	725.14	J/mol×K	758.42	Joback Method
cpg	742.68	J/mol×K	791.60	Joback Method
cpg	759.17	J/mol×K	824.78	Joback Method
cpg	774.63	J/mol×K	857.96	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=R498290&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R498290&amp;Units=SI</a>
<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.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>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>mccol:</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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