

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

<b>Inchi:</b>	InChI=1S/C12H23NS/c1-4-6-7-8-9-12-13-11(5-2)10(3)14-12/h10,12H,4-9H2,1-3H3/t10-,1
<b>InchiKey:</b>	YNMIAYYDICMIHA-JQWIXIFHSA-N
<b>Formula:</b>	C12H23NS
<b>SMILES:</b>	CCCCCCC1N=C(CC)C(C)S1
<b>Mol. weight [g/mol]:</b>	213.38

## Physical Properties

Property code	Value	Unit	Source
gf	255.97	kJ/mol	Joback Method
hf	-88.33	kJ/mol	Joback Method
hfus	31.47	kJ/mol	Joback Method
hvap	55.23	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	4.269		Crippen Method
mcvol	191.110	ml/mol	McGowan Method
pc	2053.03	kPa	Joback Method
rinpol	1581.00		NIST Webbook
rinpol	1585.00		NIST Webbook
ripol	1923.00		NIST Webbook
tb	590.24	K	Joback Method
tc	797.96	K	Joback Method
tf	399.93	K	Joback Method
vc	0.729	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.26	J/molxK	590.24	Joback Method
cpg	523.09	J/molxK	624.86	Joback Method
cpg	541.88	J/molxK	659.48	Joback Method
cpg	559.65	J/molxK	694.10	Joback Method
cpg	576.42	J/molxK	728.72	Joback Method
cpg	592.19	J/molxK	763.34	Joback Method
cpg	607.00	J/molxK	797.96	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R497915&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R497915&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>
<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>

# 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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