

# 2-Octyl-4,5-dimethyl-3-thiazoline

<b>Inchi:</b>	InChI=1S/C13H25NS/c1-4-5-6-7-8-9-10-13-14-11(2)12(3)15-13/h12-13H,4-10H2,1-3H3
<b>InchiKey:</b>	UXEDBWMKFLIND-UHFFFAOYSA-N
<b>Formula:</b>	C13H25NS
<b>SMILES:</b>	CCCCCCCC1N=C(C)C(C)S1
<b>Mol. weight [g/mol]:</b>	227.41

## Physical Properties

Property code	Value	Unit	Source
gf	264.39	kJ/mol	Joback Method
hf	-108.97	kJ/mol	Joback Method
hfus	34.06	kJ/mol	Joback Method
hvap	57.46	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	4.659		Crippen Method
mcvol	205.200	ml/mol	McGowan Method
pc	1885.44	kPa	Joback Method
rinpol	1712.00		NIST Webbook
rinpol	1702.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1706.00		NIST Webbook
tb	613.12	K	Joback Method
tc	817.68	K	Joback Method
tf	411.20	K	Joback Method
vc	0.784	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.11	J/molxK	613.12	Joback Method
cpg	576.35	J/molxK	647.21	Joback Method
cpg	595.53	J/molxK	681.31	Joback Method
cpg	613.65	J/molxK	715.40	Joback Method
cpg	630.75	J/molxK	749.49	Joback Method
cpg	646.83	J/molxK	783.59	Joback Method

## Sources

<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=R230836&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R230836&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>

## 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>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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