

# 4-ethyl-2-heptyl-3-thiazoline

<b>Inchi:</b>	InChI=1S/C12H23NS/c1-3-5-6-7-8-9-12-13-11(4-2)10-14-12/h12H,3-10H2,1-2H3
<b>InchiKey:</b>	OKFHLKBNWQXEJK-UHFFFAOYSA-N
<b>Formula:</b>	C12H23NS
<b>SMILES:</b>	CCCCCCCC1N=C(CC)CS1
<b>Mol. weight [g/mol]:</b>	213.38

## Physical Properties

Property code	Value	Unit	Source
gf	263.68	kJ/mol	Joback Method
hf	-67.99	kJ/mol	Joback Method
hfus	30.40	kJ/mol	Joback Method
hvap	55.54	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	4.271		Crippen Method
mcvol	191.110	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
rinpol	1663.00		NIST Webbook
rinpol	1669.00		NIST Webbook
ripol	2064.00		NIST Webbook
tb	594.91	K	Joback Method
tc	802.71	K	Joback Method
tf	404.17	K	Joback Method
vc	0.730	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.14	J/molxK	594.91	Joback Method
cpg	521.50	J/molxK	629.54	Joback Method
cpg	539.82	J/molxK	664.18	Joback Method
cpg	557.13	J/molxK	698.81	Joback Method
cpg	573.43	J/molxK	733.44	Joback Method
cpg	588.77	J/molxK	768.08	Joback Method
cpg	603.17	J/molxK	802.71	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R497846&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R497846&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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