

# Oxazole, 2-ethyl-4,5-dihydro-

<b>Other names:</b>	2-Ethyl-2-oxazoline 2-Ethyloxazoline 2-Oxazoline, 2-ethyl-
<b>Inchi:</b>	InChI=1S/C5H9NO/c1-2-5-6-3-4-7-5/h2-4H2,1H3
<b>InchiKey:</b>	NYEZZYQZRQDLEH-UHFFFAOYSA-N
<b>Formula:</b>	C5H9NO
<b>SMILES:</b>	CCC1=NCCO1
<b>Mol. weight [g/mol]:</b>	99.13
<b>CAS:</b>	10431-98-8

## Physical Properties

Property code	Value	Unit	Source
gf	86.47	kJ/mol	Joback Method
hf	-80.43	kJ/mol	Joback Method
hfus	15.52	kJ/mol	Joback Method
hvap	38.96	kJ/mol	Joback Method
log10ws	-0.56		Crippen Method
logp	0.825		Crippen Method
mcvol	82.000	ml/mol	McGowan Method
pc	4615.13	kPa	Joback Method
rinpol	759.00		NIST Webbook
tb	418.54	K	Joback Method
tc	634.85	K	Joback Method
tf	272.64	K	Joback Method
vc	0.314	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.24	J/molxK	418.54	Joback Method
cpg	177.42	J/molxK	454.59	Joback Method
cpg	189.00	J/molxK	490.64	Joback Method
cpg	200.01	J/molxK	526.69	Joback Method
cpg	210.44	J/molxK	562.74	Joback Method

cpg	220.30	J/mol×K	598.80	Joback Method
cpg	229.59	J/mol×K	634.85	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=C10431988&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10431988&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>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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