

# 10-Undecynoic acid, 4,4-dimethyloxazoline (dmox) derivative

Inchi:	InChI=1S/C15H25NO/c1-4-5-6-7-8-9-10-11-12-14-16-15(2,3)13-17-14/h1H,5-13H2,2-3H3
InchiKey:	SIHYNDGTPLKOGU-UHFFFAOYSA-N
Formula:	C15H25NO
SMILES:	C#CCCCCCCCC1=NC(C)(C)CO1
Mol. weight [g/mol]:	235.37

## Physical Properties

Property code	Value	Unit	Source
gf	380.54	kJ/mol	Joback Method
hf	-0.03	kJ/mol	Joback Method
hfus	39.17	kJ/mol	Joback Method
hvap	59.62	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.948		Crippen Method
mcvol	214.300	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
rinpol	1637.80		NIST Webbook
tb	633.03	K	Joback Method
tc	840.12	K	Joback Method
tf	451.97	K	Joback Method
vc	0.833	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.43	J/mol×K	633.03	Joback Method
cpg	614.72	J/mol×K	667.54	Joback Method
cpg	633.03	J/mol×K	702.06	Joback Method
cpg	650.47	J/mol×K	736.57	Joback Method
cpg	667.13	J/mol×K	771.09	Joback Method
cpg	683.13	J/mol×K	805.60	Joback Method
cpg	698.58	J/mol×K	840.12	Joback Method

# Sources

<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=U333574&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U333574&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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>h vap:</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>m cvol:</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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