

# 3-Methylnon-1-yn-3-ol

<b>Other names:</b>	3-Methyl-1-nonyne-3-ol 3-Methyl-1-nonyn-3-ol
<b>Inchi:</b>	InChI=1S/C10H18O/c1-4-6-7-8-9-10(3,11)5-2/h2,11H,4,6-9H2,1,3H3
<b>InchiKey:</b>	VQUXVWMAXIQKTQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	C#CC(C)(O)CCCCC
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	5430-01-3

## Physical Properties

Property code	Value	Unit	Source
gf	122.41	kJ/mol	Joback Method
hf	-118.81	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	53.09	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.341		Crippen Method
mvol	149.030	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
tb	507.27	K	Joback Method
tc	684.05	K	Joback Method
tf	312.67	K	Joback Method
vc	0.566	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.97	J/molxK	507.27	Joback Method
cpg	360.93	J/molxK	536.73	Joback Method
cpg	373.22	J/molxK	566.20	Joback Method
cpg	384.88	J/molxK	595.66	Joback Method
cpg	395.93	J/molxK	625.13	Joback Method
cpg	406.42	J/molxK	654.59	Joback Method
cpg	416.37	J/molxK	684.05	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=C5430013&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5430013&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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