

# 5-Hexen-3-yn-2-ol, 2-methyl-

<b>Other names:</b>	Dimethyl(vinylethynyl)carbinol 2-Methyl-5-hexen-3-yn-2-ol
<b>Inchi:</b>	InChI=1S/C7H10O/c1-4-5-6-7(2,3)8/h4,8H,1H2,2-3H3
<b>InchiKey:</b>	OYWGYGPXPDGOGH-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O
<b>SMILES:</b>	C=CC#CC(C)(C)O
<b>Mol. weight [g/mol]:</b>	110.15
<b>CAS:</b>	690-94-8

## Physical Properties

Property code	Value	Unit	Source
chl	-4169.20 ± 0.50	kJ/mol	NIST Webbook
gf	164.72	kJ/mol	Joback Method
hf	46.20 ± 0.80	kJ/mol	NIST Webbook
hfl	-14.60 ± 0.70	kJ/mol	NIST Webbook
hfus	12.40	kJ/mol	Joback Method
hvap	60.80	kJ/mol	NIST Webbook
hvap	60.80 ± 0.20	kJ/mol	NIST Webbook
log10ws	-1.78		Crippen Method
logp	0.947		Crippen Method
mcvol	102.460	ml/mol	McGowan Method
pc	4021.02	kPa	Joback Method
tb	454.19	K	Joback Method
tc	651.10	K	Joback Method
tf	336.23	K	Joback Method
vc	0.379	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.15	J/mol×K	454.19	Joback Method
cpg	213.91	J/mol×K	487.01	Joback Method
cpg	223.09	J/mol×K	519.83	Joback Method
cpg	231.72	J/mol×K	552.64	Joback Method

cpg	239.83	J/mol×K	585.46	Joback Method
cpg	247.46	J/mol×K	618.28	Joback Method
cpg	254.62	J/mol×K	651.10	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C690948&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C690948&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>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/25-436-0/5-Hexen-3-yn-2-ol-2-methyl.pdf>

Generated by Cheméo on 2024-08-14 04:52:15.593505018 +0000 UTC m=+2301004.840610377.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.