

# 2,2-Dimethyl-5-hexen-3-ol

<b>Inchi:</b>	InChI=1S/C8H16O/c1-5-6-7(9)8(2,3)4/h5,7,9H,1,6H2,2-4H3
<b>InchiKey:</b>	PXYGGMCZALUAQW-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	C=CCC(O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	19550-89-1

## Physical Properties

Property code	Value	Unit	Source
gf	-32.10	kJ/mol	Joback Method
hf	-249.28	kJ/mol	Joback Method
hfus	8.35	kJ/mol	Joback Method
hvap	47.73	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.969		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	467.63	K	Joback Method
tc	643.35	K	Joback Method
tf	226.40	K	Joback Method
vc	0.467	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.88	J/mol×K	467.63	Joback Method
cpg	331.36	J/mol×K	614.06	Joback Method
cpg	321.41	J/mol×K	584.78	Joback Method
cpg	310.92	J/mol×K	555.49	Joback Method
cpg	299.85	J/mol×K	526.20	Joback Method
cpg	288.18	J/mol×K	496.92	Joback Method
cpg	340.78	J/mol×K	643.35	Joback Method
dvisc	0.0001768	Paxs	467.63	Joback Method
dvisc	0.0003231	Paxs	427.42	Joback Method

dvisc	0.0006690	Paxs	387.22	Joback Method
dvisc	0.0016398	Paxs	347.01	Joback Method
dvisc	0.0050841	Paxs	306.81	Joback Method
dvisc	0.0221752	Paxs	266.61	Joback Method
dvisc	0.1631928	Paxs	226.40	Joback Method

## Sources

<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.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>
<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=C19550891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550891&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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