

# 3,4,4-Trimethyl-1-penten-3-ol

<b>Inchi:</b>	InChI=1S/C8H16O/c1-6-8(5,9)7(2,3)4/h6,9H,1H2,2-5H3
<b>InchiKey:</b>	VHCAZBIUJQZQCZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	C=CC(C)(O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	3732-61-4

## Physical Properties

Property code	Value	Unit	Source
gf	-26.82	kJ/mol	Joback Method
hf	-252.75	kJ/mol	Joback Method
hfus	4.46	kJ/mol	Joback Method
hvap	46.82	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.969		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	464.84	K	Joback Method
tc	647.45	K	Joback Method
tf	243.82	K	Joback Method
vc	0.462	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.47	J/molxK	464.84	Joback Method
cpg	291.55	J/molxK	495.27	Joback Method
cpg	303.84	J/molxK	525.71	Joback Method
cpg	315.37	J/molxK	556.14	Joback Method
cpg	326.19	J/molxK	586.58	Joback Method
cpg	336.35	J/molxK	617.01	Joback Method
cpg	345.88	J/molxK	647.45	Joback Method
dvisc	0.0975868	Paxs	243.82	Joback Method
dvisc	0.0174363	Paxs	280.66	Joback Method

dvisc	0.0046459	Paxs	317.49	Joback Method
dvisc	0.0016297	Paxs	354.33	Joback Method
dvisc	0.0006964	Paxs	391.17	Joback Method
dvisc	0.0003445	Paxs	428.00	Joback Method
dvisc	0.0001905	Paxs	464.84	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=C3732614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3732614&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>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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