

# 3,3,5,5-Tetramethylcyclohexanol

<b>Other names:</b>	3,3,5,5-Tetramethyl cyclohexanol-1 Cyclohexanol, 3,3,5,5-tetramethyl-
<b>Inchi:</b>	InChI=1S/C10H20O/c1-9(2)5-8(11)6-10(3,4)7-9/h8,11H,5-7H2,1-4H3
<b>InchiKey:</b>	PIQXIIHPQBQVTP-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CC1(C)CC(O)CC(C)(C)C1
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	2650-40-0

## Physical Properties

Property code	Value	Unit	Source
gf	-105.45	kJ/mol	Joback Method
hf	-357.84	kJ/mol	Joback Method
hfus	7.12	kJ/mol	Joback Method
hvap	52.04	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
tb	531.07	K	Joback Method
tc	731.54	K	Joback Method
tf	309.98	K	Joback Method
vc	0.541	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.31	J/molxK	531.07	Joback Method
cpg	386.14	J/molxK	564.48	Joback Method
cpg	401.95	J/molxK	597.89	Joback Method
cpg	416.89	J/molxK	631.30	Joback Method
cpg	431.10	J/molxK	664.71	Joback Method
cpg	444.75	J/molxK	698.13	Joback Method
cpg	457.97	J/molxK	731.54	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2650400&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2650400&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>

# 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>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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