

# 1,2-Cyclohexanediol, 1-methyl-4-(1-methylethyl)-

<b>Other names:</b>	p-Menthane-1,2-diol Isocarvomenthol, 1-hydroxy- 4-Isopropyl-1-methyl-1,2-cyclohexanediol 1-Hydroxyisocarvomenthol NSC 96755 1-Hydroxyneocarvomenthol
<b>Inchi:</b>	InChI=1S/C10H20O2/c1-7(2)8-4-5-10(3,12)9(11)6-8/h7-9,11-12H,4-6H2,1-3H3
<b>InchiKey:</b>	RYLFWQILVNWPEL-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O2
<b>SMILES:</b>	CC(C)C1CCC(C)(O)C(O)C1
<b>Mol. weight [g/mol]:</b>	172.26
<b>CAS:</b>	33669-76-0

## Physical Properties

Property code	Value	Unit	Source
gf	-239.22	kJ/mol	Joback Method
hf	-530.59	kJ/mol	Joback Method
hfus	13.99	kJ/mol	Joback Method
hvap	69.48	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	1.554		Crippen Method
mcvol	152.640	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	1378.00		NIST Webbook
rinpol	1378.00		NIST Webbook
tb	622.57	K	Joback Method
tc	808.83	K	Joback Method
tf	331.90	K	Joback Method
vc	0.556	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.50	J/molxK	622.57	Joback Method

cpg	447.89	J/mol×K	653.61	Joback Method
cpg	461.61	J/mol×K	684.66	Joback Method
cpg	474.74	J/mol×K	715.70	Joback Method
cpg	487.33	J/mol×K	746.74	Joback Method
cpg	499.46	J/mol×K	777.79	Joback Method
cpg	511.20	J/mol×K	808.83	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=C33669760&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33669760&amp;Units=SI</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>rinpol:</b>	Non-polar retention indices
<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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