

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

<b>Other names:</b>	1-Methyl-4-(1-methylethenyl)-1,2-cyclohexanediol 8-p-Menthadien-1,2-diol 8-p-Menthen-1,2-diol Limonene-1,2-diol Limonene glycol limonene-diol Limonen-1,2-diol p-Menth-8-en-1,2-diol 1-methyl-4-(1-methylvinyl)cyclohexane-1,2-diol
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-7(2)8-4-5-10(3,12)9(11)6-8/h8-9,11-12H,1,4-6H2,2-3H3
<b>InchiKey:</b>	WKZWTZTZGWEGE-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	<chem>C=C(C)C1CCC(C)(O)C(O)C1</chem>
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	1946-00-5

## Physical Properties

Property code	Value	Unit	Source
gf	-157.49	kJ/mol	Joback Method
hf	-409.67	kJ/mol	Joback Method
hfus	14.92	kJ/mol	Joback Method
hvap	69.28	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.475		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3217.33	kPa	Joback Method
ripol	1342.90		NIST Webbook
ripol	1342.90		NIST Webbook
ripol	1321.00		NIST Webbook
ripol	1321.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2275.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2306.00		NIST Webbook
ripol	2325.00		NIST Webbook
ripol	2226.00		NIST Webbook
ripol	2268.00		NIST Webbook

ripol	2290.00		NIST Webbook
tb	619.57	K	Joback Method
tc	808.41	K	Joback Method
tf	331.18	K	Joback Method
vc	0.544	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.19	J/mol×K	619.57	Joback Method
cpg	424.90	J/mol×K	651.04	Joback Method
cpg	437.94	J/mol×K	682.52	Joback Method
cpg	450.41	J/mol×K	713.99	Joback Method
cpg	462.36	J/mol×K	745.46	Joback Method
cpg	473.88	J/mol×K	776.94	Joback Method
cpg	485.04	J/mol×K	808.41	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.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=C1946005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1946005&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>ripol:</b>	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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