

# Cyclohexanol, 1-methyl-4-(1-methylethylidene)-

Other names:	«gamma»-Terpineol 1-methyl-4-(1-methylethylidene)cyclohexan-1-ol
Inchi:	InChI=1S/C10H18O/c1-8(2)9-4-6-10(3,11)7-5-9/h11H,4-7H2,1-3H3
InchiKey:	NNRLDGQZIVUQTE-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC(C)=C1CCC(C)(O)CC1
Mol. weight [g/mol]:	154.25
CAS:	586-81-2

## Physical Properties

Property code	Value	Unit	Source
gf	-47.63	kJ/mol	Joback Method
hf	-266.16	kJ/mol	Joback Method
hfus	10.29	kJ/mol	Joback Method
hvap	54.68	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.648		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	1178.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1217.60		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1203.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1169.00		NIST Webbook

rinpol	1169.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1146.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1146.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1185.40		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1217.60		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1192.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1683.00		NIST Webbook
ripol	1684.00		NIST Webbook
ripol	1695.00		NIST Webbook
ripol	1683.00		NIST Webbook
ripol	1696.00		NIST Webbook
ripol	1683.00		NIST Webbook
tb	546.69	K	Joback Method
tc	749.66	K	Joback Method
tf	290.96	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	349.56	J/mol×K	546.69	Joback Method
cpg	364.87	J/mol×K	580.52	Joback Method
cpg	379.30	J/mol×K	614.35	Joback Method
cpg	392.93	J/mol×K	648.18	Joback Method
cpg	405.87	J/mol×K	682.00	Joback Method
cpg	418.21	J/mol×K	715.83	Joback Method
cpg	430.06	J/mol×K	749.66	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=C586812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C586812&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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