

# Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1 «alpha»,2 «beta»,5 «beta»)-

Other names:	Menthol, trans-1,3,cis-1,4- Isomenthol Isomentol 2-Isopropyl-5-methylcyclohexanol, (1 «alpha»,2 «beta»,5 «beta»)-
Inchi:	InChI=1S/C10H20O/c1-7(2)9-5-4-8(3)6-10(9)11/h7-11H,4-6H2,1-3H3/t8-,9-,10+/m1/s1
InchiKey:	NOOLISFMXDJSKH-BBBLOLIVSA-N
Formula:	C10H20O
SMILES:	CC1CCC(C(C)C)C(O)C1
Mol. weight [g/mol]:	156.27
CAS:	490-99-3

## Physical Properties

Property code	Value	Unit	Source
gf	-96.91	kJ/mol	Joback Method
hf	-393.60	kJ/mol	Joback Method
hfus	16.20	kJ/mol	Joback Method
hvap	53.96	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.440		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1178.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1179.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1184.00		NIST Webbook
rinpol	1171.00		NIST Webbook
rinpol	1141.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1185.00		NIST Webbook

rinpol	1178.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1182.20		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1221.00		NIST Webbook
rinpol	1174.00		NIST Webbook
ripol	1667.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1653.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1684.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1667.00		NIST Webbook
ripol	1667.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1639.00		NIST Webbook
tb	530.15	K	Joback Method
tc	719.67	K	Joback Method
tf	247.18	K	Joback Method
vc	0.539	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.36	J/mol×K	530.15	Joback Method
cpg	387.84	J/mol×K	561.74	Joback Method
cpg	404.52	J/mol×K	593.32	Joback Method

cpg	420.40	J/molxK	624.91	Joback Method
cpg	435.50	J/molxK	656.49	Joback Method
cpg	449.82	J/molxK	688.08	Joback Method
cpg	463.40	J/molxK	719.67	Joback Method
dvisc	0.0430815	Paxs	247.18	Joback Method
dvisc	0.0077902	Paxs	294.34	Joback Method
dvisc	0.0022592	Paxs	341.50	Joback Method
dvisc	0.0008847	Paxs	388.66	Joback Method
dvisc	0.0004244	Paxs	435.83	Joback Method
dvisc	0.0002350	Paxs	482.99	Joback Method
dvisc	0.0001446	Paxs	530.15	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=C490993&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C490993&amp;Units=SI</a>
<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>

## 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>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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