

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

Other names: Menthol, trans-1,3,trans-1,4-

Neo-Menthol

Inchi: InChI=1S/C10H20O/c1-7(2)9-5-4-8(3)6-10(9)11/h7-11H,4-6H2,1-3H3

InchiKey: NOOLISFMXDJSKH-UHFFFAOYSA-N

Formula: C10H20O

SMILES: CC1CCC(C(C)C)C(O)C1

Mol. weight [g/mol]: 156.27

CAS: 491-01-0

## 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	1164.00		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1165.00		NIST Webbook
rinpol	1156.00		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1166.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1152.80		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1159.00		NIST Webbook

rinpol	1156.00		NIST Webbook
rinpol	1156.00		NIST Webbook
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rinpol	1166.00		NIST Webbook
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rinpol	1151.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1166.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1156.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1161.00		NIST Webbook
ripol	1599.00		NIST Webbook
ripol	1589.00		NIST Webbook
ripol	1557.00		NIST Webbook
ripol	1601.00		NIST Webbook
ripol	1574.00		NIST Webbook
ripol	1594.00		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1570.00		NIST Webbook
ripol	1586.00		NIST Webbook
ripol	1559.00		NIST Webbook
ripol	1590.00		NIST Webbook
ripol	1560.00		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1551.00		NIST Webbook
ripol	1559.00		NIST Webbook
ripol	1589.00		NIST Webbook
ripol	1601.00		NIST Webbook
ripol	1557.00		NIST Webbook
ripol	1570.00		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/molxK	530.15	Joback Method
cpg	449.82	J/molxK	688.08	Joback Method
cpg	435.50	J/molxK	656.49	Joback Method
cpg	420.40	J/molxK	624.91	Joback Method
cpg	404.52	J/molxK	593.32	Joback Method
cpg	387.84	J/molxK	561.74	Joback Method
cpg	463.40	J/molxK	719.67	Joback Method
dvisc	0.0001446	Paxs	530.15	Joback Method
dvisc	0.0002350	Paxs	482.99	Joback Method
dvisc	0.0004244	Paxs	435.83	Joback Method
dvisc	0.0008847	Paxs	388.66	Joback Method
dvisc	0.0022592	Paxs	341.50	Joback Method
dvisc	0.0077902	Paxs	294.34	Joback Method
dvisc	0.0430815	Paxs	247.18	Joback Method

## Sources

<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=C491010&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C491010&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>
<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>

## 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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