

# Levomenthol

<b>Other names:</b>	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1R-(1«alpha»,2«beta»,5«alpha»)]- L-(-)-Menthol Menthol, (1R,3R,4S)-(-)- (-)-Menthol (R)-(-)-Menthol U.S.P. Menthol 1R-Menthol (1R,2S,5R)-(-)-Menthol (-)-Menthyl alcohol (1R-(1-«alpha»,2-«beta»,5-«alpha»))-5-Methyl-2-(1-methylethyl)cyclohexanol L-Menthol (1R)-(-)-Menthol (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1R,2S,5R)- NSC 62788 1-Menthol (1R,3R,4S)-(-)-menthol
<b>Inchi:</b>	InChI=1S/C10H20O/c1-7(2)9-5-4-8(3)6-10(9)11/h7-11H,4-6H2,1-3H3/t8-,9+,10-/m0/s1
<b>InchiKey:</b>	NOOLISFMXDJSKH-AEJSXWLSSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CC1CCC(C(C)C)C(O)C1
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	2216-51-5

## 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	56.60	kJ/mol	NIST Webbook
log10ws	-2.55		Crippen Method
logp	2.440		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1155.38		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1171.00		NIST Webbook

rinpol	1172.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1150.40		NIST Webbook
rinpol	1158.58		NIST Webbook
rinpol	1176.76		NIST Webbook
rinpol	1158.58		NIST Webbook
rinpol	1161.95		NIST Webbook
rinpol	1165.41		NIST Webbook
rinpol	1169.10		NIST Webbook
rinpol	1172.79		NIST Webbook
rinpol	1152.38		NIST Webbook
rinpol	1180.78		NIST Webbook
rinpol	1143.95		NIST Webbook
rinpol	1146.99		NIST Webbook
rinpol	1149.57		NIST Webbook
rinpol	1152.38		NIST Webbook
rinpol	1176.76		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1626.00		NIST Webbook
ripol	1626.00		NIST Webbook
ripol	1652.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1651.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1599.00		NIST Webbook
ripol	1612.00		NIST Webbook
tb	485.20	K	NIST Webbook
tb	489.60	K	NIST Webbook
tc	719.67	K	Joback Method
tf	314.65 ± 1.50	K	NIST Webbook
tf	315.40 ± 0.50	K	NIST Webbook
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/mol×K	624.91	Joback Method
cpg	435.50	J/mol×K	656.49	Joback Method

cpg	449.82	J/molxK	688.08	Joback Method
cpg	463.40	J/molxK	719.67	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
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
hfust	11.88	kJ/mol	316.20	NIST Webbook
hsubt	95.80 ± 4.80	kJ/mol	289.00	NIST Webbook
hvapt	59.10	kJ/mol	430.00	NIST Webbook
hvapt	58.20	kJ/mol	407.00	NIST Webbook

## Sources

<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=C2216515&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2216515&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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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