

# trans-5-Hydroxyisomenthol

<b>Other names:</b>	5-Hydroxyisomenthol, trans
<b>Inchi:</b>	InChI=1S/C10H20O2/c1-6(2)10-8(11)4-7(3)5-9(10)12/h6-12H,4-5H2,1-3H3/t7-,8-,9-,10+/
<b>InchiKey:</b>	BUHKNALVIKKDKZ-KYXWUPHJSA-N
<b>Formula:</b>	C10H20O2
<b>SMILES:</b>	CC1CC(O)C(C(C)C)C(O)C1
<b>Mol. weight [g/mol]:</b>	172.26

## Physical Properties

Property code	Value	Unit	Source
gf	-241.44	kJ/mol	Joback Method
hf	-566.17	kJ/mol	Joback Method
hfus	21.36	kJ/mol	Joback Method
hvap	70.33	kJ/mol	Joback Method
log10ws	-1.93		Crippen Method
logp	1.410		Crippen Method
mcvol	152.640	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
rinpol	1446.00		NIST Webbook
tb	617.66	K	Joback Method
tc	797.97	K	Joback Method
tf	303.76	K	Joback Method
vc	0.557	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.89	J/molxK	617.66	Joback Method
cpg	506.10	J/molxK	767.92	Joback Method
cpg	493.86	J/molxK	737.87	Joback Method
cpg	480.93	J/molxK	707.81	Joback Method
cpg	467.30	J/molxK	677.76	Joback Method
cpg	452.95	J/molxK	647.71	Joback Method
cpg	517.65	J/molxK	797.97	Joback Method
dvisc	0.0000421	Paxs	617.66	Joback Method

dvisc	0.0000780	Paxs	565.34	Joback Method
dvisc	0.0001637	Paxs	513.03	Joback Method
dvisc	0.0004067	Paxs	460.71	Joback Method
dvisc	0.0012754	Paxs	408.39	Joback Method
dvisc	0.0055954	Paxs	356.08	Joback Method
dvisc	0.0408544	Paxs	303.76	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R96280&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R96280&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>
<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>

## 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>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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