

# Cyclohexanemethanol, «alpha»,«alpha»,4-trimethyl-, cis-

<b>Other names:</b>	cis-Dihydro-«alpha»-terpineol 2-(4-Methylcyclohexyl)-2-propanol, (Z)- cis-p-Menthan-8-ol cis-«alpha»,«alpha»,4-trimethylcyclohexanemethanol
<b>Inchi:</b>	InChI=1S/C10H20O/c1-8-4-6-9(7-5-8)10(2,3)11/h8-9,11H,4-7H2,1-3H3/t8-,9+
<b>InchiKey:</b>	UODXCYZDMHPIJE-DTORHVGOSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CC1CCC(C(C)(C)O)CC1
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	7322-63-6

## Physical Properties

Property code	Value	Unit	Source
gf	-83.92	kJ/mol	Joback Method
hf	-376.73	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	53.36	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
rinpol	1134.00		NIST Webbook
rinpol	1134.00		NIST Webbook
rinpol	1134.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1152.00		NIST Webbook
ripol	1571.00		NIST Webbook
tb	532.03	K	Joback Method
tc	729.03	K	Joback Method
tf	268.84	K	Joback Method
vc	0.535	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.32	J/mol×K	532.03	Joback Method
cpg	390.15	J/mol×K	564.86	Joback Method
cpg	406.99	J/mol×K	597.70	Joback Method
cpg	422.88	J/mol×K	630.53	Joback Method
cpg	437.86	J/mol×K	663.36	Joback Method
cpg	451.95	J/mol×K	696.19	Joback Method
cpg	465.20	J/mol×K	729.03	Joback Method
dvisc	0.0384558	Paxs	268.84	Joback Method
dvisc	0.0076741	Paxs	312.71	Joback Method
dvisc	0.0022767	Paxs	356.57	Joback Method
dvisc	0.0008815	Paxs	400.44	Joback Method
dvisc	0.0004116	Paxs	444.30	Joback Method
dvisc	0.0002204	Paxs	488.16	Joback Method
dvisc	0.0001308	Paxs	532.03	Joback Method

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7322636&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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