

# Cyclopentanemethanol

<b>Other names:</b>	Cyclopentylmethanol Cyclopentyl carbinol Cyclopentylmethyl alcohol
<b>Inchi:</b>	InChI=1S/C6H12O/c7-5-6-3-1-2-4-6/h6-7H,1-5H2
<b>InchiKey:</b>	ISQVBYGGNVVVB-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O
<b>SMILES:</b>	OCC1CCCC1
<b>Mol. weight [g/mol]:</b>	100.16
<b>CAS:</b>	3637-61-4

## Physical Properties

Property code	Value	Unit	Source
gf	-100.63	kJ/mol	Joback Method
hf	-258.92	kJ/mol	Joback Method
hfus	9.32	kJ/mol	Joback Method
hvap	45.89	kJ/mol	Joback Method
log10ws	-1.25		Crippen Method
logp	1.169		Crippen Method
mcvol	90.410	ml/mol	McGowan Method
pc	4316.89	kPa	Joback Method
tb	435.70	K	NIST Webbook
tc	631.75	K	Joback Method
tf	229.10	K	Joback Method
vc	0.332	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.46	J/mol×K	444.14	Joback Method
cpg	201.51	J/mol×K	475.41	Joback Method
cpg	212.98	J/mol×K	506.68	Joback Method
cpg	223.86	J/mol×K	537.94	Joback Method
cpg	234.20	J/mol×K	569.21	Joback Method
cpg	244.00	J/mol×K	600.48	Joback Method

cpg	253.28	J/mol×K	631.75	Joback Method
dvisc	0.0575992	Paxs	229.10	Joback Method
dvisc	0.0131164	Paxs	264.94	Joback Method
dvisc	0.0042497	Paxs	300.78	Joback Method
dvisc	0.0017503	Paxs	336.62	Joback Method
dvisc	0.0008551	Paxs	372.46	Joback Method
dvisc	0.0004737	Paxs	408.30	Joback Method
dvisc	0.0002887	Paxs	444.14	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=C3637614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3637614&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>

## 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>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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