

# 1-Cyclohexyl-2-methyl-2-propanol

<b>Inchi:</b>	InChI=1S/C10H20O/c1-10(2,11)8-9-6-4-3-5-7-9/h9,11H,3-8H2,1-2H3
<b>InchiKey:</b>	XRIXVTPYOOVPIX-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CC(C)(O)CC1CCCCC1
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	5531-30-6

## Physical Properties

Property code	Value	Unit	Source
gf	-76.21	kJ/mol	Joback Method
hf	-356.39	kJ/mol	Joback Method
hfus	10.16	kJ/mol	Joback Method
hvap	53.67	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.728		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
tb	536.70	K	Joback Method
tc	733.89	K	Joback Method
tf	273.08	K	Joback Method
vc	0.536	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.60	J/mol×K	536.70	Joback Method
cpg	449.07	J/mol×K	701.03	Joback Method
cpg	435.40	J/mol×K	668.16	Joback Method
cpg	420.87	J/mol×K	635.30	Joback Method
cpg	405.42	J/mol×K	602.43	Joback Method
cpg	389.01	J/mol×K	569.57	Joback Method
cpg	461.90	J/mol×K	733.89	Joback Method
dvisc	0.0001162	Paxs	536.70	Joback Method
dvisc	0.0002023	Paxs	492.76	Joback Method

dvisc	0.0003926	Paxs	448.83	Joback Method
dvisc	0.0008796	Paxs	404.89	Joback Method
dvisc	0.0023983	Paxs	360.95	Joback Method
dvisc	0.0086350	Paxs	317.02	Joback Method
dvisc	0.0469529	Paxs	273.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5531306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5531306&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>
<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>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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